BOHANNON™

David D. Bohannon Organization
Sixty 31st Avenue
San Mateo, CA 94403-3404

T 650.345.8222
F 650.573.5457
W ddbo.com

April 21, 2016

RECEIVED
By Alameda County Environmental Health 10:43 am, Apr 22, 2016

SUBMITTED ELECTRONICALLY

Mr. Mark E. Detterman, P.G., CEG
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Re: Presentation of Site Data in Support of a No Further Action Determination Under the State of California Low Threat Closure Policy
David D. Bohannon Organization Property Located at
575 Paseo Grande - San Lorenzo, CA

Dear Mr. Detterman:

Enclosed for your review is the *Presentation of Site Data in Support of a No Further Action Determination Under the State of California Low Threat Closure Policy* (Report) prepared by Stantec Consulting Services Inc. (Stantec) on behalf of David D. Bohannon Organization (Bohannon) for the property located at 575 Paseo Grande in San Lorenzo, California (the Site).

This Report presents and evaluates the soil, groundwater, and soil vapor data representing the current on- and off-Site conditions. Based upon the evaluation, Bohannon is proposing that the Site meets the LTC policy requirements for a No Further Action (NFA) determination assuming restricted current and future land future land uses and appropriate Site management controls as discussed in the Report.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge. If you have any questions regarding the enclosed report, please contact me at (650) 345-8222.

Sincerely,

Ernie Lotti, Jr., CFO

cc: Mr. Chris Maxwell, Stantec Consulting Services Inc.
Mr. Andrew A. Bassak, Manatt, Phelps, and Phillips LLP

Presentation of Site Data in Support of a No Further Action Determination Under the State of California Low Threat Closure Policy

575 Paseo Grande
San Lorenzo, California
Stantec PN: 185703099

Prepared for:
David D. Bohannon Organization

Prepared by:
Stantec Consulting Services Inc.
1340 Treat Boulevard, Suite 300
Walnut Creek, California 94597

April 21, 2016

Limitations and Certifications

This report was prepared in accordance with the scope of work outlined in Stantec's existing contract with the David D. Bohannon Organization (Bohannon) and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Bohannon for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Prepared by:

Eva Hey
Senior Geologist

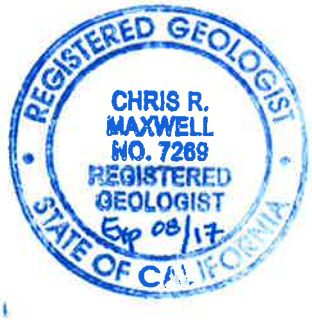
Reviewed by:

Chris Maxwell
Principal Geologist

Information, conclusions, and recommendations provided by Stantec in this document have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:

Chris Maxwell, P. G., #7269
Principal Geologist



Stantec

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Abbreviations and Acronyms

AHCSA	County of Alameda Health Care Services Agency
APN	Assessor Parcel Number
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CSM	conceptual site model
DPE	dual phase extraction
DTSC	Department of Toxic Substance Control
EPA	Environmental Protection Agency
ESL	Environmental Screening Level
i.e.,	id est, meaning "that is" (Latin)
LOP	Local Oversight Program
LRL	laboratory reporting limit
LTCP	Low Threat Closure Policy
mg/L	milligrams per liter
mg/kg	milligrams per kilogram
MTBE	methyl tertiary-butyl ether
PAH	polycyclic aromatic hydrocarbons
RWQCB	Regional Water Quality Control Board
SMP	Site Management Plan
Stantec	Stantec Consulting Services Inc.
SWRCB	State Water Resources Control Board
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHog	total petroleum hydrocarbons as oil and grease
µg/L	micrograms per liter
µg/m^3	micrograms per cubic meter
USCS	Unified Soil Classification System
U.S. EPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

EXECUTIVE SUMMARY

On November 22, 2011, on behalf of the David D. Bohannon Organization (Bohannon), Stantec Consulting Services Inc. (Stantec) submitted to the County of Alameda Health Care Services Agency (AHCHSA) the *Report of Dual Phase Extraction System Operations, Soil Vapor Sampling, and Risk Analysis* ***(Stantec, 2011)*** for the property located at 575 Paseo Grande in San Lorenzo, California (Site). The remediation system removed an estimated 731 pounds of hydrocarbons from soil and groundwater. This mass removal was in addition to an estimated 1,100 cubic yards of hydrocarbon impacted soil removed during prior soil excavation activities.

The Introduction section of the November 2011 report includes the following statement: "*Based on the results of the groundwater and soil vapor data and associated risk analysis, the current Site conditions are suitable for redevelopment as commercial/industrial or residential land with appropriate restrictions for future groundwater use and appropriate notifications and procedures for potential future contact with residual petroleum hydrocarbons in soil/groundwater during potential future construction activities*."

On August 31, 2012 the AHCSA provided a letter to Bohannon requesting additional information in support of the State of California (State) Low Threat Closure (LTC) policy, which was adopted by the State on August 17, 2012. In summary, the information requested was in regards to further off-Site delineation of hydrocarbons in soil and groundwater and further on- and off-Site characterization of volatile compounds in soil vapor. In response, the *Site Conceptual Model and Work Plan to Evaluate Post-Remediation Site Conditions* (Stantec, December 2012) was submitted to AHCHSA.

On and off-Site data was collected to complete the AHCHSA data requests. The information was collected using an iterative approach – meetings and/or conference calls were held following each of the data collection efforts to discuss the draft results and potential next steps. Most recently, the AHCHSA concurred during a teleconference meeting on August 26, 2015, that the data collection appears to be complete and it is appropriate to present the information consistent with the LTC Policy.

This Report presents and evaluates the soil, groundwater, and soil vapor data representing the current on- and off-Site conditions. Based upon the evaluation presented herein, Bohannon proposes that the Site meets the LTC policy requirements for a No Further Action (NFA) determination assuming restricted current and future land future land uses and appropriate Site management controls as discussed herein. Upon concurrence from AHCHSA and the State with the findings presented in this Report, Bohannon will prepare and submit a Site Management Plan (SMP) which includes the appropriate land use restrictions.

PRESENTATION OF SITE DATA IN SUPPORT OF A NO FURTHER ACTION DETERMINATION UNDER THE STATE OF CALIFORNIA LOW THREAT CLOSURE POLICY

Executive Summary
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Bohannon understands and concurs that under the current Site conditions the land use will be restricted. This Report describes the land uses which Bohannon proposes should fall under the NFA, including appropriate Site management controls. Should a land use outside the NFA approval be contemplated in the future, the land owner at that time will contact the AHCHSA to determine what, if any, additional information/actions may be required.

1.0 INTRODUCTION

This Report titled "Presentation of Site Data in Support of a No Further Action Determination Under the State of California Low Threat Closure Policy" (Report) was prepared by Stantec Consulting Services Inc. (Stantec) for the David D. Bohannon Organization (Bohannon) in reference to the property located at 575 Paseo Grande in San Lorenzo, California (Site). The Site location is shown on Figure 1. The surrounding land use is illustrated on Figure 2 and the Site Layout including current on- and off-Site groundwater and soil vapor monitoring points is shown on Figure 3.

The purpose of this Report is to present and evaluate soil, groundwater, and soil vapor data consistent with the State of California Low Threat Closure (LTC) policy in support of a No Further Action (NFA) determination by the Alameda County Health Care Services Agency (AHCHSA).

In addition to this Introduction, this Report includes the following sections:

Section 2.0 – Background Information

Section 3.0 – Presentation of Recent On- and Off-Site Data

Section 4.0 – Evaluation of Recent On- and Off-Site Data

Section 5.0 – Evaluation of Site Data Pursuant to the Low Threat Closure Policy

Section 6.0 – Conceptual Site Model

Section 7.0 – Current and Future Land Use and

Section 8.0 - Site Management Plan Overview

Section 9.0 – Post-Closure Site Management

Section 10.0 – Conclusions

Section 11.0 - References

2.0 BACKGROUND

Over the last 25 years, the Site has been used as an asphalt-paved parking area located in a C1 commercial zone. The Site was a gasoline service station prior to 1969. Little information is known about the Site history related to its use as a service station. In anticipation of property redevelopment, initial Site assessment activities were conducted in March 1995 which identified underground service station equipment including an underground storage tank (UST), service station conveyance piping, and a former grease sump or hydraulic lift pit. The UST, piping, and approximately 1,100 cubic yards of hydrocarbon impacted soils were removed in June 1995.

Since 1995, extensive on- and off-Site characterization of soil, groundwater, and soil vapor has been completed by Bohannon. Remediation of soil and groundwater has been completed using in-situ and ex-situ technologies. Appendix A provides a summary of the historic investigation and remediation activities completed, including a discussion of the Site geology and hydrology.

This Report presents the recent investigations, conducted between January 2014 and April 2015. Presentation and discussion of these recent data is provided in Sections 3.0 and 4.0, respectively. The recent data represents the current post-remediation on- and off-Site conditions.

3.0 PRESENTATION OF RECENT ON- AND OFF-SITE DATA

The following sections summarize environmental investigations conducted at the Site after December 2013. Sample locations are shown on Figure 2. Trend graphs for constituents of concern in groundwater are provided in Appendix B.

For the 2014 and 2015 investigations: sample collection and well installation procedures are described in Appendix C; field data sheets are provided in Appendix D; boring and well construction logs are provided in Appendix E; and, analytical data reports are provided in Appendix F.

3.1 MONITORING WELL GROUNDWATER SAMPLE COLLECTION

Semi-annual groundwater sampling was conducted in March and September 2014 pursuant to a March 4, 2014 letter from AHCHSA to Bohannon. The scope of work for the two events included measuring the depth-to-water and collecting groundwater samples in groundwater monitoring wells MW-1 through MW-7 and observation wells POBS-A1, POBS-B1, POBS-B2, and NOBS-B1 (see Figure 2). Well construction details are included in Table 1.

Groundwater samples were analyzed for gasoline range organics and benzene, toluene, ethylbenzene, and total xylenes, (collectively BTEX). Reports documenting the results of the two events were submitted to AHCHSA on May 8, 2014 (Stantec, 2014a) and October 31, 2014 (Stantec, 2014b), respectively. Sample results are tabulated in Table 2. Groundwater elevation data is tabulated on Table 3.

3.2 MAY 2014 INVESTIGATION

Soil, groundwater, and soil vapor sampling was conducted in May 2014 in accordance with the *Site Conceptual Model and Work Plan to Evaluate Post-Remediation Site Conditions* (Stantec, 2012b) and the January 17, 2014 *Work Plan Addendum (Stantec, 2014d)*. The *Work Plan Addendum* was approved by the AHCHSA in a March 4, 2014 letter to Bohannon.

On-Site Soil Sampling

Ten on-Site soil borings (SV-5 through SV-14) were advanced between May 16 and 21, 2014. The boring locations are shown on Figure 2. The borings were located adjacent to the proposed shallow soil vapor sample locations (see discussion below). Maximum boring depths ranging from 10 to 11 feet below ground surface (bgs). One to two soil samples were collected from each boring for chemical analysis based on field observations. Soil samples were analyzed for gasoline range organics and BTEX by EPA Methods 8015M and 8021B. Samples from borings SV-10 through SV-12 were additionally analyzed for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C-SIM. Analytical results are presented in Tables 4 and 5.

Off-Site Soil Sampling

Soil borings (HP-1 through HP-13) were advanced at thirteen off-Site locations between May 16 and 21, 2014. The soil borings were continuously cored to a total depth of15 feet bgs. Off-Site boring locations are shown on Figure 2. Three soil samples were collected for chemical analysis from each boring at depths ranging from 2 to 12 feet bgs and analyzed for gasoline range organics and BTEX by EPA Methods 8015M and 8021B. Off-Site soil sample depths and analytical results are summarized in Table 6.

Grab Groundwater Sampling

HydroPunch™ soil borings were advanced for the collection of discrete depth groundwater samples at locations HP-1 through HP-13. Groundwater sampling was conducted between May 16 and 21, 2014. The boring locations are shown on Figure 2.

The continuous core data from the soil borings discussed above was used to select groundwater sampling intervals. Grab groundwater samples were attempted from a depth interval of 12 to 15 feet bgs with the exception of HP-11. The sample collection at HP-11 was attempted from the depth interval of 9 to 15 feet bgs. Sample collection was successful from 11 of the 13 locations; there was insufficient water in the borehole for sample collection at locations HP-1 and HP-10.

Grab groundwater samples were analyzed for gasoline range organics and BTEX by EPA Method 8260B. Off-Site soil sample analytical results are summarized in Table 7.

Soil Vapor Sampling

Ten new shallow soil vapor wells (SV-5 through SV-14) were constructed at the locations shown on Figure 2. Locations were selected to best represent the current Site conditions based upon the soil and groundwater data.

Soil vapor sample collection was conducted on May 29, 2014. One soil vapor sample was collected from each of the ten new vapor wells (SV-5 through SV-14) and the four existing vapor wells (SV-1 through SV-4). Samples were submitted to Air Toxics Ltd. (Air Toxics) in Folsom, California, for analysis of VOCs using modified Method TO-15 (a gas chromatograph/mass spectrometer [GC/MS] analytical method) and for the leak check compound, helium, using modified American Society for Testing and Materials (ASTM) D-1946. Soil vapor analytical results are presented in Table 8.

3.3 OCTOBER 2014 INVESTIGATION

The results of May 2014 sampling were submitted as draft to AHCHSA on July 30, 2014. Stantec and Bohannon met with AHCHSA on August 29, 2014 to discuss the draft results and an appropriate path forward.

Presentation of Recent On- and Off-Site Data
April 21, 2016

Based upon review of the draft information and discussions during the meeting, two (2) potential data gaps were identified by ACHCSA:

> **Down-Gradient Groundwater Conditions** – The May 2014 investigation results confirmed the area of petroleum hydrocarbons affected groundwater does not extend to the southwest of the Site along Paseo Grande. Two monitoring wells (MW-6 and MW-7) are located down-gradient (west) of the Site along Via Del Sol. The two wells are approximately 150 feet apart and do not contain detectable hydrocarbons. The AHCHSA requested additional sampling between the two well locations to confirm the area of hydrocarbon groundwater does not extend west to Via Del Sol between these two wells.
>
> **Soil Vapor Concentrations** - Elevated concentrations of hydrocarbons, including benzene, were detected in grab groundwater samples immediately west of the Site along Paseo Largo Vista during the May 2014 investigations (HP-2, -3, -11, and -12). The hydrocarbons are present in relatively thin saturated silt and sandy silt lenses beneath a laterally consistent silt-clay zone. The AHCHSA requested soil vapor sampling along Paseo Largo Vista to quantify the hydrocarbon concentrations in soil vapor associated with the observed groundwater conditions.

Stantec submitted the *August 29, 2014 Meeting Summary and Work Plan for Supplemental Investigation Activities*(Stantec, 2014c) supplemental work plan for the collection of the additional data was submitted on September 23, 2014 and approved by the AHCHSA in a letter to Bohannon dated October 29, 2014 (AHCHSA, 2014). The following sections summarize the implementation of the approved work plan.

Down-Gradient Investigation

Soil borings were advanced at the three locations (HP-14, HP-15, and HP-16) along Via del Sol as shown on Figure 2. The soil borings were continuously cored on October 15, 2014 to total depths ranging from 15 to 20 feet bgs.

One HydroPunch™ groundwater sample was collected at each location. The depth interval for sampling was identified based upon the geologic conditions identified in the continuous core borehole (i.e., saturated silt/sand). The groundwater samples were analyzed for gasoline range organics and BTEX by EPA Method 8260B/CA LUFT MS. Groundwater analytical results are included in Table 7.

Soil Vapor Investigation

Six shallow soil vapor wells (SV-15 through SV-19 and SV-18D) were constructed at locations along Paseo Vista on November 13, 2014 as shown on Figure 2. A soil sample was collected in the depth interval of four (4) to five (5) feet bgs at each location with a TerraCore sampler. Soil

samples were analyzed for gasoline range organics, BTEX, and naphthalene by EPA Method 8260B/CA LUFT MS. Soil sample analytical results are included in Table 6.

An additional deeper soil vapor well (SV-18D) was installed at the location of SV-18 and prior grab groundwater sample HP-3. This deeper soil vapor well was constructed with a total depth of 9 feet bgs. The concept of installing shallow and deep soil vapor probes was discussed during the August 29, 2014 meeting as a means to refine the conceptual site model. Specifically, the objective of SV-18D was to assess whether there is a vertical profile to the soil vapor concentrations as a result of the silt/clay confining layer which separates the underlying groundwater from the shallow unsaturated zone soils.

Soil vapor sample collection from the six new vapor wells (SV-15 through SV-19 and SV-18D) was performed on January 6, 2015. Samples were collected from four of the six wells; SV-15 and SV-18D could not be sampled due to the presence of water in the vapor point.

Soil vapor samples were submitted for analysis of VOCs and naphthalene using modified Method TO-15 and for the leak check compound, helium, using modified ASTM D-1946. Analysis of soil vapor samples also included oxygen, nitrogen, methane, and carbon dioxide by ASTM D-1946. Confirmation samples were also analyzed for naphthalene by Method TO-17. Soil vapor analytical results are included in Table 8.

3.4 APRIL 2015 INVESTIGATION

The results of the October 2014 groundwater sampling and January 2015 soil vapor sampling were submitted as draft to AHCHSA on January 30, 2015. The results and the appropriate path forward were discussed in a meeting on March 25, 2015 attended by representatives of ACHCSA, Bohannon, and Stantec.

The AHCHSA requested that Bohannon: (1) conduct an additional round of groundwater sampling for select wells, including analysis for chlorinated hydrocarbons; (2) conduct an additional round of soil vapor sampling; and, (3) provide information regarding the potential for current or future construction of basements in structures down-gradient of the Site.

Sampling was conducted in accordance with the *March 25, 2015 Meeting Summary and Work Scope for Soil Vapor and Groundwater Sampling Activities (Stantec, 2015)*, submitted to ACHCSA on April 24, 2015 and approved in electronic correspondence on April 27, 2015.

Groundwater Sampling

Groundwater sampling was conducted on April 27, 2015. The nine (9) wells sampled were MW-1 to MW-4, POBS-A1, POBS-B1, POBS-B2, NIW-A1, and NOBS-B1. Groundwater samples were analyzed for gasoline range organics by EPA Method 8260B/CA LUFT MS and VOCs including

chlorinated hydrocarbons and naphthalene by EPA Method 8260B. Analytical results from the April 2015 groundwater sampling event are included in Table 2.

Soil Vapor Sampling

Soil vapor sample collection was conducted on April 28, 2015. Sample collection was attempted at 11 locations (SV-2, SV-4, SV-7, SV-10, SV-13, SV-14, SV-15, SV-16, SV-18S, SV-18D, and SV-19). Soil vapor point SV-18D could not be sampled due to the continued presence of water in the vapor point.

Samples were submitted for analysis of VOCs and naphthalene using modified Method TO-15 and for the leak check compound, helium, using ASTM D-1946. Analysis of soil vapor samples also included oxygen, nitrogen, methane, and carbon dioxide by ASTM D-1946. Samples from SV-4, SV-7, and SV-10, and SV-14 were also analyzed for naphthalene by Method TO-17. Soil vapor analytical results from April 2015 are included in Table 8.

Neighborhood Basement/Foundation Survey Results

In order to assess the likelihood of a San Lorenzo homeowner excavating a basement as part of a home remodel, Stantec contacted Chris Keith of Keith Construction. Keith Construction is based in San Lorenzo, and Chris Keith has over 28 years of experience in the home remodel business. Mr. Keith stated that the addition of a basement in San Lorenzo would be "prohibitively expensive" and said that it is "just not done."

Stantec also contacted the Alameda County Building Permit department on May 15, 2015, and spoke at length with Mary Eusebio in the records section. She stated that building permit applications for the years 1946 through 2001 are available on microfilm only and can be searched by building address. Stantec personnel visited the Alameda County Building Permit office and reviewed the building permit files for the properties in the block immediately downgradient of the Site and did not find any indication that these homes included a basement. The following is a list of properties reviewed:

• 15951 Paseo Largavista • 15959 Paseo Largavista • 15967 Paseo Largavista • 15975 Paseo Largavista	• 617 Paseo Grande • 627 Paseo Grande	• 15970 Via del Sol • 15962 Via del Sol • 15954 Via del Sol

The building permit records indicate that no basements exist in the area immediately down-gradient from the Site. In consideration of the above information from the local contractor, and our review of the relevant Alameda County Building Permits, it appears that no homeowner in the area of the Site has excavated a basement or would be likely to do so in the future.

4.0 EVALUATION OF RECENT ON- AND OFF-SITE DATA

A summary of the results for soil, groundwater and soil vapor data collected prior to and during the Site remediation activities is presented in Appendix A. This section evaluates the post-remediation on- and off-Site data presented in Section 3.0. These data represent the current on- and off-Site subsurface conditions.

The following evaluation demonstrates that the lateral and vertical extent of petroleum hydrocarbons have been defined in soil, groundwater, and soil vapor in both the on- and off-Site areas. Comparison of these data to applicable regulatory agency screening levels pursuant to the LTC policy is provided in Section 5.0. The evaluations presented in both Sections 4.0 and 5.0 are the basis for the conceptual site model (CSM) summarized in Section 6.0.

Soil

Petroleum hydrocarbons were not detected in the soil samples at the seven (7) off-Site locations (HP-4 to HP-10) to the south and southwest of the Site along Paseo Grande (Figure 3, Table 6). These data confirm that residual petroleum hydrocarbons present in on-Site soils do not extend to these off-Site areas.

Petroleum hydrocarbons are present in on-Site soil (SV-5 to -14) and off-Site soil immediately west of the Site (HP-2, -3, -11, and -12) (Figure 3, Tables 4 and 6). The hydrocarbons are present primarily in deep saturated soils, attributed to the residual hydrocarbons in groundwater.

Petroleum hydrocarbon detections in shallow unsaturated soil are limited to two locations on the Site (SV-10 and SV-14) and two locations immediately west of the Site (HP-11 and -12) (Figure 3). These detections represent residual hydrocarbons not remediated by prior excavation or vapor extraction at the Site.

PAHs are present in shallow soil near the former waste oil tank on the Site (Table 5). Naphthalene was detected in three (3) of the four (4) samples and had an elevated detection limit in the sample where this compound was not detected. The remaining PAHs were only present in the one sample with the elevated naphthalene detection limit. The nature and extent of PAHs in soil has been defined and appears to be limited to on-Site soils in the immediate vicinity of the former waste oil tank.

Groundwater

This section presents a summary of the data for on-Site and offsite groundwater conditions. Monitoring well data is presented in Table 2 and grab groundwater sample results are shown on Table 7.

Evaluation of Recent on- and Off-Site Data
April 21, 2016

On-Site

Petroleum hydrocarbon concentrations at well MW-1 continue to be predominantly below laboratory LRLs. This well provides an "up-gradient" background monitoring point for the Site.

Petroleum hydrocarbon concentrations at MW-2 are considerably below historical concentrations and are stable (Table 2 and Appendix B). TPHg and benzene concentrations during the April 27, 2015 monitoring event were 2,000 µg/L and 300 µg/L, respectively. This well is located immediately down-gradient of the southern portion of the former pump island. The stable hydrocarbon concentrations reflect the remediation activities completed in this area of the Site.

Petroleum hydrocarbon concentrations at POBS-A1 decreased to historical low concentrations in April 2015. TPHg and benzene concentrations during the April 27, 2015, monitoring event were 270 and 21 µg/L, respectively. Petroleum hydrocarbon concentrations at MW-3, located immediately down-gradient of the former gasoline UST, were below LRLs during the same event (Table 2 and Appendix B). The stable and very low hydrocarbon concentrations reflect the remediation activities completed in this area of the Site.

Chlorinated VOCs [trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (cis-1,2-DCE)] were only detected in wells MW-1 and NOBS-B1 on the Site.

- TCE - 3.7 µg/L at NOBS-B1 and 3.9 µg/L at MW-1
- PCE - 8.7 µg/L at NOBS-1 and 1.1 µg/L at MW-1.
- Cis-1,2-DCE - 2.1 µg/L at NOBS-1 and 2.3 µg/L at MW-1

As discussed above, MW-1 is an up-gradient background well for the Site. The detected chlorinated VOC concentrations in MW-1 and NOBS-1 are similar. These data indicate the very low concentrations of chlorinated VOCs detected are attributed to an up-gradient off-Site source.

Off-Site

Petroleum hydrocarbons were not detected in the grab groundwater samples at the seven (7) off-Site locations (HP-4 to HP-10) to the south and southwest of the Site along Paseo Grande (Figure 5, Table 6). These data confirm that residual petroleum hydrocarbons present in on-Site groundwater do not extend to these off-Site areas.

September 2014 and April 2015 groundwater monitoring well sample results for petroleum hydrocarbons are shown on Figures 6 and 7, respectively. Concentrations of petroleum hydrocarbons have not been present in off-site and down-gradient monitoring wells MW-5, MW-6, and MW-7 for over ten years. Petroleum hydrocarbons were also not present in grab groundwater sample results from down-gradient locations HP-14 through HP-16. These data confirm that the residual hydrocarbons present in on-Site groundwater do not extend to these off-Site areas.

TPHg and benzene concentrations at MW-4 on April 27, 2015 were 4,300 µg/L and 94 µg/L, respectively. TPHg and/or benzene were also detected in grab groundwater samples collected in May 2014 at four (4) locations immediately to the west of the Site (HP-2, -3, -11, and -12) (Figure 4, Table 7). These data confirm the residual petroleum hydrocarbons in Site groundwater extends to the west of the Site (i.e., down-gradient) beneath Paseo Largo Vista.

Petroleum hydrocarbon concentrations at MW-4 have been variable over time (Table 2 and Appendix B). TPHg and benzene concentrations in samples collected during the April 2015 event are in general similar to or less than results for the samples collected during nine (9) events completed during 2012, 2013, and 2014. These data indicate the petroleum hydrocarbon concentrations in this off-Site area are stable.

Soil Vapor

Soil vapor sampling was conducted at 14 on-Site locations in May 2014 (Figure 8), at five off-Site in January 2015 (Figure 9) and at 10 locations in April 2015 (Figure 10).

On-Site

During the May 2014 and April 2015 sampling events, benzene was detected at five of the 14 on-Site soil vapor sample locations. The benzene detections were located in the southern portion of the Site at SV-4, SV-10, SV-11, SV-12, and SV-14. Benzene concentrations ranged from 1.5 µg/m^3 at SV-12 to 1,100 µg/m^3 at SV-10.

The presence of hydrocarbons in soil vapor in the southern portion of the Site is consistent with the observed soil and groundwater conditions in this area as discussed above (groundwater at MW-2 and shallow soil at SV-10 and -14). The general absence of hydrocarbons in soil vapor in the central and northern portions of the Site, including the area of the former gasoline UST, reflects the current soil and groundwater conditions in these on-Site areas.

Off-Site

VOCs were not detected in the soil vapor samples collected at SV-15, -16 and -19. Very low concentrations of a select number of VOCs were detected at SV-18S; BTEX was not detected in this sample.

The April 2015 sample detection limit for benzene at SV-15 was elevated due to the presence of heptane. A vapor sample was not collected at this location previously due to the presence of water in the sample point. The January and April 2015 sample results from nearby location SV-19 were both non-detect with a low detection limit. These data suggest benzene is likely not present in the April 2015 sample collected at SV-15.

PRESENTATION OF SITE DATA IN SUPPORT OF A NO FURTHER ACTION DETERMINATION UNDER THE STATE OF CALIFORNIA LOW THREAT CLOSURE POLICY

Evaluation of Recent on- and Off-Site Data
April 21, 2016

The absence of petroleum hydrocarbons in soil vapor samples collected beneath Paseo Largo Vista indicates that the silt/clay layer acts as a confining unit effectively preventing upwards migration of vapor from groundwater to shallow unsaturated zone soils in the off-Site areas immediately down-gradient of the Site.

5.0 EVALUATION OF SITE DATA PURSUANT TO THE LOW THREAT CLOSURE POLICY

The Site data was evaluated using the criteria for closure pursuant to the underground storage tank (UST) LTC policy adopted by the State Water Resources Control Board (SWRCB) in May 2012 and effective August 17, 2012 (SWRCB, 2012). The LTC policy provides general and media–specific criteria (i.e., screening levels) for closure of UST cases. Cases that meet the general and media specific criteria in the LTC policy do not require further corrective action and shall be issued a uniform closure letter consistent with Health and Safety Code section 2529.10.

The following presents an evaluation of the Site data with respect to the general and media-specific criteria.

5.1 EVALUATION OF GENERAL CRITERIA

The following provides an evaluation of the general criteria for the Site as required in the LTC policy. Based on this evaluation, the Site meets the general criteria for closure.

- The Site is located within the service area of a public water system operated by East Bay Municipal Utilities District (EBMUD). The EBMUD provides water to the residents and businesses through its municipal water-supply system.
- The unauthorized release consists only of petroleum. The unauthorized release is presumed to be from former USTs, dispensers, and associated product piping. Soil and groundwater sampling results document that the contamination is limited to petroleum hydrocarbons.
- The unauthorized release has been stopped. The UST and associated piping have been removed. Free product is not currently present at the Site.
- A CSM that assesses the nature, extent, and mobility of the release has been developed is summarized in Section 6.0.
- Secondary source removal has been addressed. Shallow unsaturated soils containing petroleum hydrocarbons were excavated in 1995. A soil vapor and groundwater extraction system was operated between March and December 2009. The remedial actions significantly reduced petroleum hydrocarbon concentrations in soil and groundwater.
- Groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code section 25296.15. MTBE was detected in the groundwater at a maximum concentration of 0.89 µg/L in NOBS-B1 in April 2015. MTBE analysis for Site soil has not been completed. However, the analysis is not required because: (1) the gasoline service station operations were historic (pre-1970s) and MTBE was not used in gasoline at that time; (2) the very low MTBE concentration in the groundwater of one Site monitoring

well confirms the absence of MTBE in Site soils; and (3) the MTBE was not detected in any of the soil vapor samples collected at the Site.

- Nuisance as defined by Water Code section 13050 does not exist at the Site. Conditions at the Site under the current land use are not injurious to human health, are not offensive to the senses, do not pose an obstruction to the free use of property, do not interfere with the comfortable enjoyment of life, and do not impact the community.

5.2 MEDIA SPECIFIC EVALUATION

The LTC policy includes three media-specific evaluation criteria: groundwater, soil direct contact and outdoor air exposure, and vapor intrusion to indoor air. The following presents the required evaluation for these three media.

5.2.1 Soil

Consistent with the LTC policy, the detected concentrations of benzene, ethylbenzene, and naphthalene in soil were compared to the values listed in the table below for both future residential land use (i.e., the most conservative land use) and a conceptual future utility worker. The screening values published in the LTC policy were developed in consideration of direct contact and outdoor air exposure. The Site meets each the soil media specific numerical criteria listed below.

	LTC Policy Screening Levels for Soil			Site Data for Soils – Maximum Concentration Detected (mg/kg)[2]	
Chemical	**Residential[1] 0 to 5 feet bgs (mg/kg)**	**Residential[1] 5 to 10 feet bgs (mg/kg)**	**Utility Worker[1] 0 to 10 feet bgs (mg/kg)**	**0 to 5 feet bgs**	**5 to 10 feet bgs**
Benzene	1.9	2.8	14	<0.48	1.3
Ethylbenzene	21	32	314	<0.48	14
Naphthalene	9.7	9.7	219	NA	2.4
BaPe[4]	0.063	Not Applicable	4.5	NA	0.0028

1. Soil screening levels are from the Low-Threat Underground Storage Tank Case Closure Policy (Scenario a - Table 1) adopted in May 2012 and effective August 17, 2012 (Residential concentration limits).
2. Maximum detected concentrations are for soil samples collected at the site after 2009, between 0-5 feet bgs.
3. Maximum detected concentrations are for soil samples collected at the site after 2009, between 5-10 feet bgs.
4. BaPe – benzo(a)pyrene equivalents

NA = not analyzed.

5.2.2 Groundwater

The LTC policy identifies five (5) scenarios (i.e., classes) for groundwater under which closure can be considered pursuant to the LTC policy. The classes are based upon various Site conditions. The Site conditions must meet one or more of the five classes. As presented in the table below, the Site conditions meet the criteria set forth under Class 2 of the LTC policy for groundwater.

Groundwater Contaminant Plume Classification Characteristics	LTC Policy Criteria for Class 2	Site Conditions
Plume Length (feet)	<250	~200
Free Product Remaining (Yes/No)	No	No
Distance of Nearest Water Supply Well from Plume Boundary (feet)	>1,000	>2,000
Distance of Nearest Surface Water Body from Plume Boundary (feet)	>1,000	>1,500
Stable or Decreasing Plume	Yes	Yes
Maximum Dissolved Benzene Concentration (µg/L)	<3,000	1,600
Maximum Dissolved MTBE Concentration (µg/L)	<1,000	0.89

Notes:

1. Groundwater screening levels are from the Low-Threat Underground Storage Tank Case Closure Policy adopted in May 2012 and effective August 17, 2012.
2. Maximum detected concentrations are for groundwater samples collected at the site after 2009 (Table 2).

5.2.3 Soil Vapor

The LTC policy identifies four (4) scenarios under which closure can be considered pursuant to the LTC policy. The scenarios are based upon available data and the various Site conditions. It is assumed the Site conditions conservatively meet Scenario 4B. This scenario assumes:

- soil vapor data has been collected;
- shallow groundwater is present (five feet bgs or less); and
- limited oxygen is present in the subsurface for bio-attenuation of hydrocarbons in soil vapor.

Soil vapor concentrations do not exceed screening values for residential land use at any of the off-Site locations. For the northern two-thirds of the Site, the soil vapor concentrations meet the Scenario 4B screening criterion for commercial/industrial land use and the residential screening criteria with the exception of naphthalene. Land use controls will be required to restrict future residential use in this portion of the Site.

The following table summarizes the data evaluation for the northern two-thirds of the Site.

Evaluation of On-Site Soil Vapor Data for Northern Two-Thirds of the Site LTC Policy Scenario 4B – Direct Measurement of Soil Gas Concentrations	LTCP Criteria	Site Conditions
Are soil gas concentrations for benzene, ethylbenzene, and naphthalene below the specified residential screening levels?	Yes	**No**
Benzene (µg/m^3)	<85	Max = 64
Ethylbenzene (µg/m^3)	< 1,100	Not detected
Naphthalene (µg/m^3)	< 93	**Max = 180**
Are soil gas concentrations for benzene, ethylbenzene, and naphthalene are below the specified commercial screening levels?	Yes	**Yes**
Benzene (µg/m^3)	<280	Max 64
Ethylbenzene (µg/m^3)	<3,600	Not detected
Naphthalene (µg/m^3)	<310	Max = 180

For the southern one-third of the Site, the detected benzene concentrations at SV-10 and SV-14 exceed the LTC policy screening criteria for both residential (85 µg/m^3) and commercial/industrial land use (280 µg/m^3). The potential risk posed by benzene in soil vapor for commercial/industrial land use can be addressed through specific land use controls. The LTC policy allows for integration of appropriate future Site management tools to address potential future risk. Land use controls are discussed in Section 7.0.

PCE in Soil Vapor

Soil vapor concentrations for detected VOCs not listed in the LTC policy (i.e., VOCs other than benzene, ethylbenzene, and naphthalene) were compared to SWRCB Tier 1 ESLs for residential (off-Site) and/or commercial/industrial (on-Site) scenarios. The commercial/industrial ESL of 210 µg/m^3 for PCE was exceeded only at one location (SV-10 – 820 µg/m^3 in April 2015). As noted above, SV-10 is located in the southern one-third portion of the Site. PCE is attributed to an off-Site source. The PCE in soil vapor will be addressed through land use controls.

5.2.4 Summary of LTC Policy Data Evaluation

The following summarizes the LTC policy evaluation.

- General – meets the general criteria for closure under the LTC policy.
- Soil - meets the direct contact and outdoor air exposure LTC policy media specific screening criteria for closure.
- Groundwater - meets the LTC policy for closure under Class 2.

- Soil Vapor – for the northern two-thirds of the Site, meets the LTC policy media specific screening criteria for closure assuming commercial/industrial land use. For the southern one-third of the Site (see Figure 10), land use controls are required under LTC policy for future commercial/industrial land use. Land use controls are discussed in Section 7.0.

6.0 SUMMMARY OF CONCEPTUAL SITE MODEL

The following summary of the CSM provides a concise and integrated presentation of the subsurface geology, hydrology, and contaminant distribution with respect to the LTC policy and the current and future land use.

- **Historic Release to Soil and Groundwater** - Petroleum hydrocarbons were historically released from a service station UST and conveyance piping to soil and shallow groundwater at the Site. The service station was owned and operated by others, and the release occurred prior to property ownership by Bohannon;

- **Remediation has Removed Hydrocarbon Mass** - Remediation activities conducted by Bohannon have removed hydrocarbon mass from soil and groundwater at the Site and in the immediate vicinity of the Site. Remediation has included soil excavation and extraction and treatment of groundwater and soil vapor. Data collected during DPE operations indicate asymptotic hydrocarbon concentrations for both extracted soil vapor and groundwater. The reduction in hydrocarbon concentrations in soil and groundwater is attributed to the remediation activities conducted by Bohannon.

- **Extent of Hydrocarbons in Groundwater is Defined** - Characterization of on- and off-Site conditions confirms that groundwater flows to the west and southwest, and that the lateral extent of hydrocarbons in groundwater does not extend to Via Del Sol. Hydrocarbon concentration data collected from existing on- and off-Site monitoring wells post-remediation indicate extent of hydrocarbons in groundwater is stable.

- **Clay-Silt Layer Creates a Natural Barrier to Upwards Migration of Hydrocarbons from On- and Off-Site Groundwater** – Soils beneath and in the immediate vicinity of the Site consist of a clay-silt layer in the depth interval of approximately five (5) to 15 feet bgs. Groundwater beneath the clay-silt layer contains detectable concentrations of hydrocarbons. Hydrocarbons are not present in off-Site shallow soil vapor (i.e., above the clay-silt layer) on the west (down-gradient) side of Paseo Largo Vista. The clay-silt layer inhibits the vertical movement of hydrocarbon vapors from groundwater toward the land surface. Hydrocarbons present in shallow soil vapor on the Site are attributed primarily to the residual hydrocarbon mass in the unsaturated and saturated soil of the clay-silt layer.

- **The Post-Remediation Site Conditions are Consistent with the LTC Policy** – the Site conditions are consistent with the general criteria for closure under the LTC policy. The concentrations of residual hydrocarbons in on-Site soil and groundwater meet the media specific screening criteria for future commercial/industrial land use. The concentrations of volatile compounds in soil vapor meet the media specific screening criteria for future commercial/industrial land use in the northern two-thirds of the Site. Future land use controls which are consistent with the LTC policy are required to address soil vapor conditions in the southern third of the Site.

7.0 CURRENT AND FUTURE LAND USE

The Site is currently paved and fenced. There is no current use of the Site. Bohannon currently does not have a specific plan for the Site. Once the AHCHSA issues the NFA determination pursuant to the LTC policy, the fence may be removed and the Site area may be used for parking at that time. The pavement will remain. Construction of occupied structures is not currently planned.

The Site is part of a larger property that is bounded by Paseo Largo Vista to the northwest, Paseo Grande to the southwest, Hesperian Blvd to the northeast, and residential/commercial property to the northwest (see Figure 2). The long term goal is for redevelopment of the entire property including the Site area. The long term use of the Site under a future redevelopment is uncertain.

Bohannon recognizes that an NFA letter issued by ACHCSA at this time would restrict the future use of the Site. Land use in the southern one-third of the Site should be limited to a covered area without irrigated landscaping or occupied structures. Paved parking is an appropriate use at this time.

Other land uses are appropriate at this time for the northern two-thirds of the Site, including irrigated landscape and occupied structure(s). The following table provides a list of specific land uses that Bohannon proposes should be considered appropriate at this time for the northern two-thirds of the Site. The Site analysis provided in this Report in Section 6.0 demonstrates the proposed Site use is consistent with the LTC policy. Bohannon requests that the NFA specifically approve of these land uses for the northern two-thirds of the Site.

Proposed Land Use to be approved through NFA – Northern Two-Thirds of the Site

Option ID	Sub-Option ID	Sub-Option Description
A – Parking	A1	Paved Above-Ground Parking
	A2	Same as Option 1 with Some Areas Unpaved for Non-Irrigated or Minimally Irrigated Landscape
B – Occupied Structure(s)	B1	Occupied Commercial or Industrial Building(s) without Sub-Grade Occupied Spaces (i.e., no Basements or Sub-Grade Parking
	B2	Same as Option B1 with Occupied Residential Structures above Ground Floor Commercial or Industrial Structures

Current and Future Land Use
April 21, 2016

The following table provides examples of possible future land use other than those discussed in the table above. Bohannon proposes the land uses presented in the table below and would not be approved in the NFA to be issued at this time, but could be considered in the future based upon further discussions with the AHCHSA.

Land Use Options that would require further Discussions with the AHCHSA

Option ID	Sub-Option ID	Sub-Option Description
C – Sub-Grade Land Use	C1	Sub-Grade Parking
	C2	Sub-Grade Occupied Spaces (i.e., basements) for either Residential or Commercial/Industrial Land Use
D – Ground Floor Residential or Daycare Structures	D	Occupied Residential or Daycare Structure(s) on the Ground Floor
E – Irrigated Open Space	E	Irrigated Open Space such as Parkland, Golf Course, or Other Unpaved Recreational Areas

Note that it may be feasible to implement Options C, D, or E without further Site remediation. However, additional land use controls could be required which cannot be accurately determined at this time until a more detailed site redevelopment plan is completed. For example, for Option D it may be feasible to install a sub-grade vapor barrier as part of the construction that would mitigate potential concerns associated with vapor intrusion. Should Bohannon wish to pursue a redevelopment plan that includes Options C, D, or E for the Site area, additional discussions will be had with AHCHSA as part of the planning and implementation process.

8.0 SITE MANAGEMENT PLAN OVERVIEW

Following concurrence with this report by the ACSHSA, Bohannon will develop a Site Management Plan (SMP). The SMP will detail specific activities which will be part of the near term site operations to ensure continued protection of human health and the environment. The following provides a listing of the key elements to be included in the SMP:

1. **Deed restriction which**:

    - prevents beneficial use of Site groundwater;
    - prevents implementation of Options C, D, and/or E above without further determinations and approval by the AHCHSA; and,
    - requires compliance with the Site Maintenance and Construction Plan (SMCP) as discussed below if the activity(ies) will include disturbance of Site soils and/or groundwater.

2. **SMCP for Options A and B above, which will include**:

    - personal protective equipment (PPE) for Site workers which may encounter soil, groundwater, or soil vapor during excavation activities. Excavation activities may include footings for above-grade building foundations, relatively small trenches for sub-grade utilities (i.e., electrical, plumbing, etc…), and relatively small excavations for installation of landscaping (i.e., holes for trees or small shrubs).
    - monitoring during maintenance and/or construction activities, which may include worker airspace monitoring depending upon the planned activities;
    - management of soil during maintenance and/or construction activities, which may include stockpiling, sampling, and off-Site recycling/disposal; and,
    - management of groundwater during maintenance and/or construction activities, which may include containing, sampling, and off-Site recycling/disposal. Note Site groundwater would only be expected to be encountered if an excavation extended deeper than approximately five (5) feet bgs. This could occur under Options B1 or B2 if deep foundation structures were to be required, but would be unlikely for Option A.

9.0 POST-CLOSURE SITE MANAGEMENT

Following approval of this Report and issuance of the NFA, Bohannon proposes the following post-closure Site management activities:

Monitoring Point Abandonment – Existing monitoring points include soil vapor probes, DPE remediation wells, and groundwater monitoring wells. Each of the monitoring points will be properly abandoned consistent with the guidelines and requirements of the local agency and the State of California. This activity will be completed within six (6) months of the NFA being issued. A monitoring point abandonment report will be submitted to the AHCHSA within 60 calendar days of completing the field activities.

SMP – The SMP discussed above in Section 8.0 will be prepared and submitted to the AHCHSA within 90 calendar days of the NFA being issued. The Site use (paved parking) will remain unchanged until such time as the SMP is approved by the AHCHSA.

Deed Restrictions – Any deed restrictions which are approved by the AHCHSA as part of the SMP will be recorded with County of Alameda within 90 calendar days of SMP approval.

Annual Site Inspection and Reporting – Bohannon will conduct an inspection of the Site conditions on an annual basis to confirm the Site conditions remain consistent with the NFA and the approved SMP. Bohannon will provide documentation to the AHCHSA by January 30th that the inspection for the prior year has been completed.

The annual submittal will document the Site use, confirm that the Site use is consistent with the NFA, and provide any updates on changes to the Site use from the current use (i.e., paved parking area). If the SMP was implemented during the calendar year, the annual submittal will describe the activities which occurred including soil and/or groundwater management associated with Site maintenance and/or construction activities.

Change in Property Ownership – Bohannon may choose to sell the Property, or portion of the Property that incorporates the Site, to another party. Should such a sale occur, Bohannon will notify the AHCHSA within 30 calendar days of the close of escrow. The notification will describe the roles and responsibilities of the new owner(s) and Bohannon for future implementation of the required deed restrictions and SMP.

10.0 CONCLUSIONS

This Report documents Site investigations completed during 2014 and 2015 to collect on- and off-Site soil, groundwater, and soil vapor data as requested by the AHCHSA. Based on the data evaluations presented herein, the Site conditions are consistent with the LTC policy for specific land uses. It is appropriate for the AHCHSA to issue a NFA determination at this time, with approval for specific current and future land uses identified herein.

Should Bohannon (or a future Site owner) determine that Site redevelopment may include one or more options not covered in the NFA (i.e., Options C, D, and/or E) the AHCHSA will be contacted during the planning process to determine what if any additional information or Site activities may be required in support of the proposed land use(s).

Upon AHCHSA concurrence with this Report, Bohannon will prepare the SMP for review and approval. Monitoring point abandonment will occur once the final NFA documentation is issued.

11.0 REFERENCES

Alameda Health Care Services Agency (AHCSA), 2014. Approval of Supplemental Work Plan; Fuel Leak Case No. RO0000167 and GeoTracker Global ID T0600102098; Bohannon Development Propery, 575 Paseo Grande, San Lorenzo, CA 94580. October 29.

California Department of Toxic Substance Control (DTSC), 2011. Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance), October.

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Stantec 2014d. Updated Work Plan to Evaluate Post-Remediation Site Conditions, Former Petroleum Underground Storage Tank (UST) Site, David D. Bohannon Organization Property Located at 575 Paseo Grande – San Lorenzo, CA. January 17.

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FIGURES

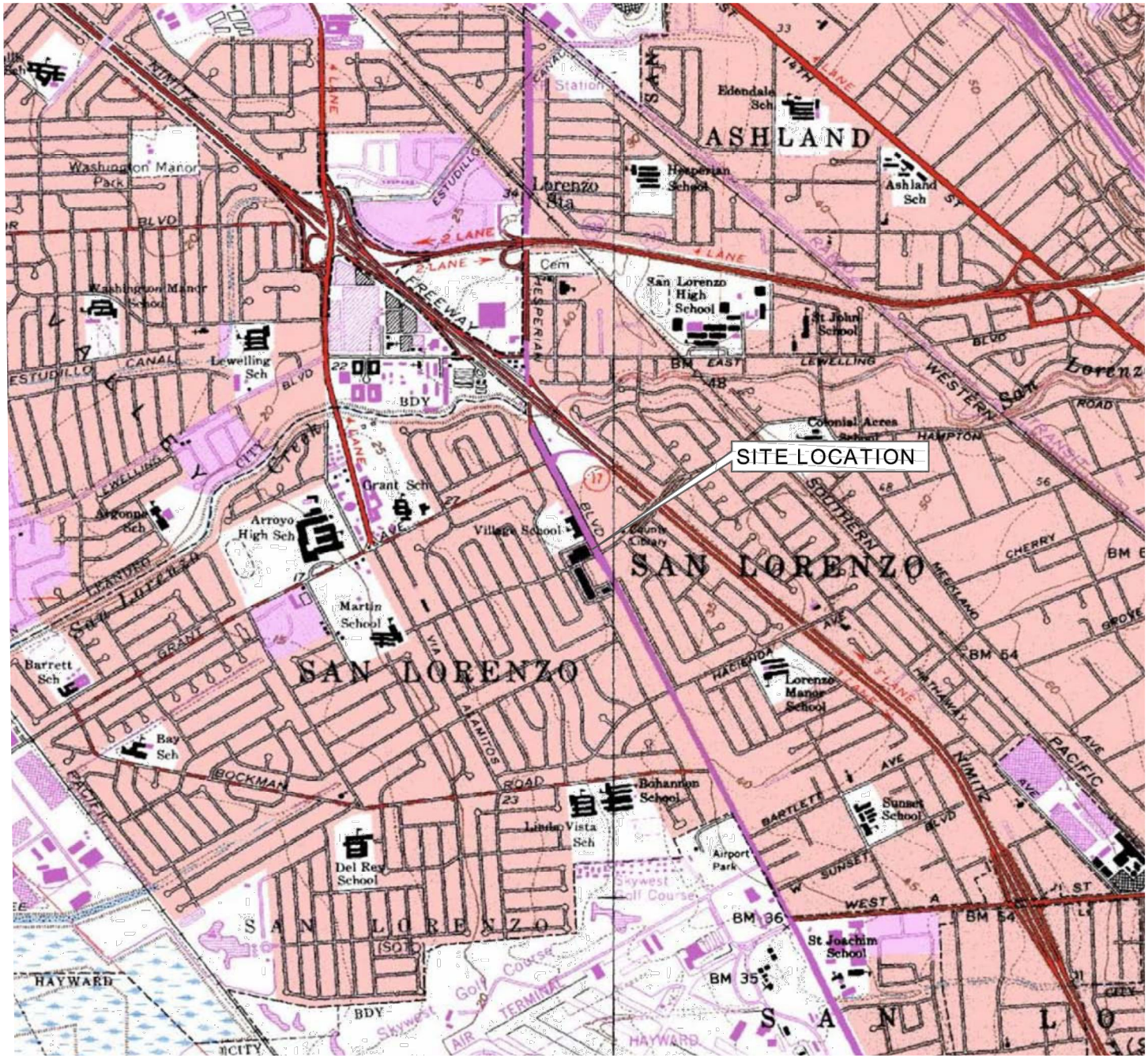

Image courtesy of the U.S. Geological Survey and Microsoft TerraService OpenGIS Map Server

Stantec	FOR: DAVID D. BOHANNON ORGANIZATION 575 PASEO GRANDE SAN LORENZO, CALIFORNIA	SITE LOCATION MAP	FIGURE: 1

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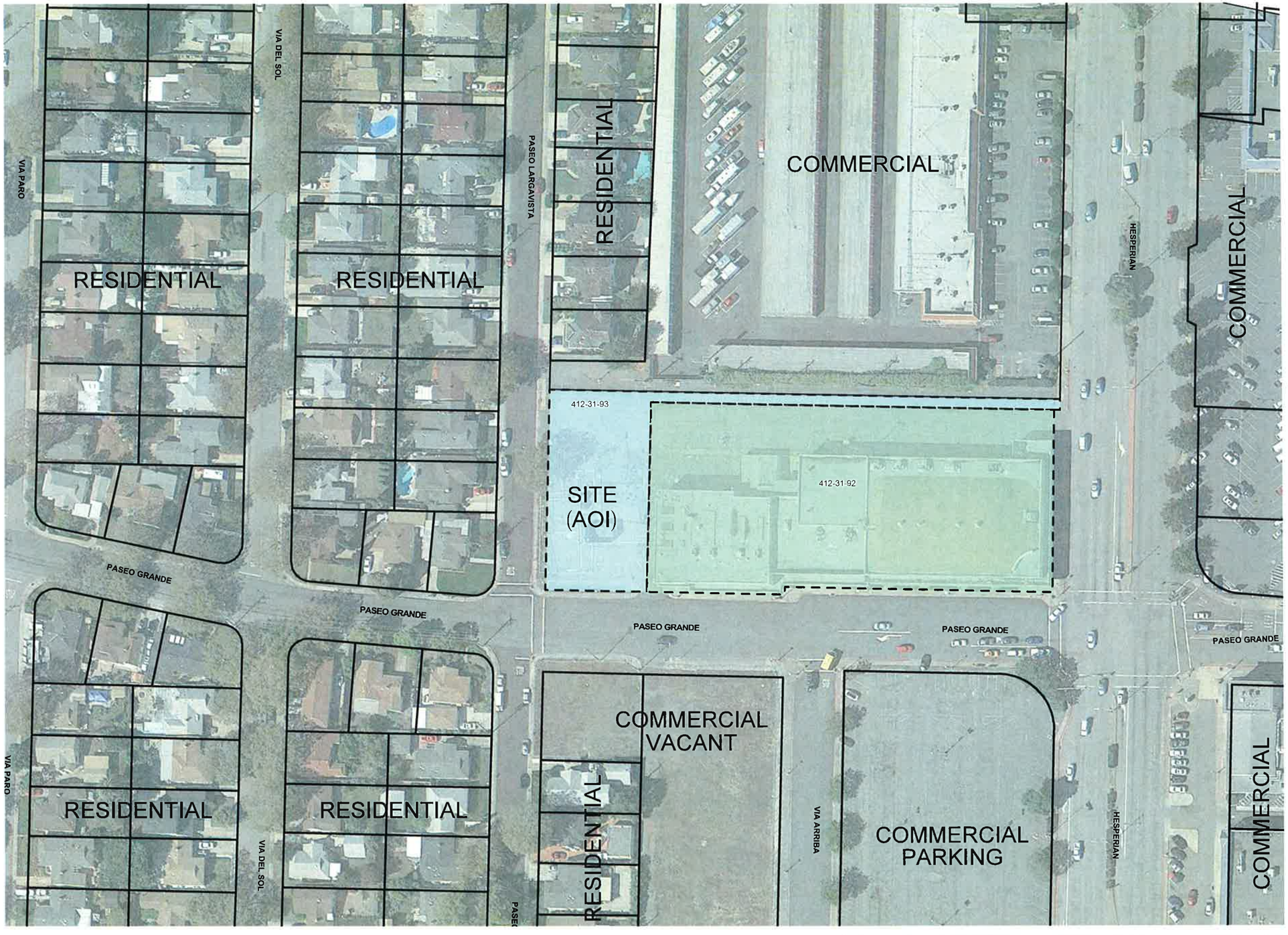
185702934.200.0001	JMA/STA	EH	CRM	10/30/14

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 1_BOHANNON - 575 Paseo_SITE LOCATION MAP.dwg|saguinaldo|Feb 04, 2016 at 17:17|Layout: 8-5X11 P



LEGEND

- PARCEL BOUNDARIES (RESIDENTIAL AND COMMERCIAL)
- FORMER GAS STATION - BOHANNON APN: 412-31-93 (AREA OF INTEREST)
- VACANT PROPERTY - BOHANNON APN: 412-31-92

N

0 100 200

APPROXIMATE SCALE IN FEET

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

SITE VICINITY MAP

FIGURE:
2

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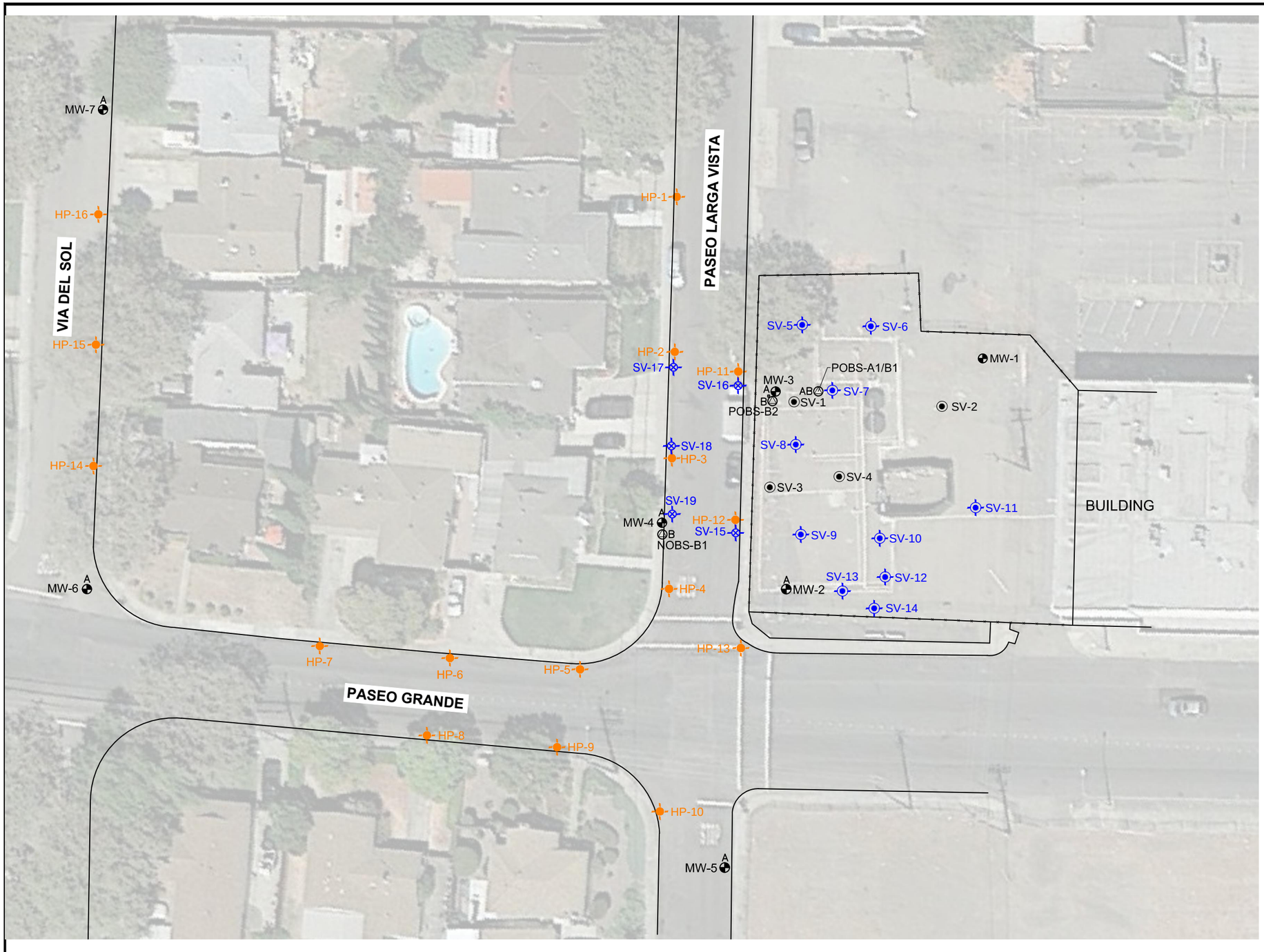

LEGEND

MW-1	MONITORING WELL
NOBS-B1	OBSERVATION WELL
SV-5	SOIL VAPOR PROBE LOCATION (STANTEC 2014)
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

0 40 80

APPROXIMATE SCALE IN FEET

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

MONITORING AND SAMPLING POINTS (2010 TO 2015)

FIGURE: **3**

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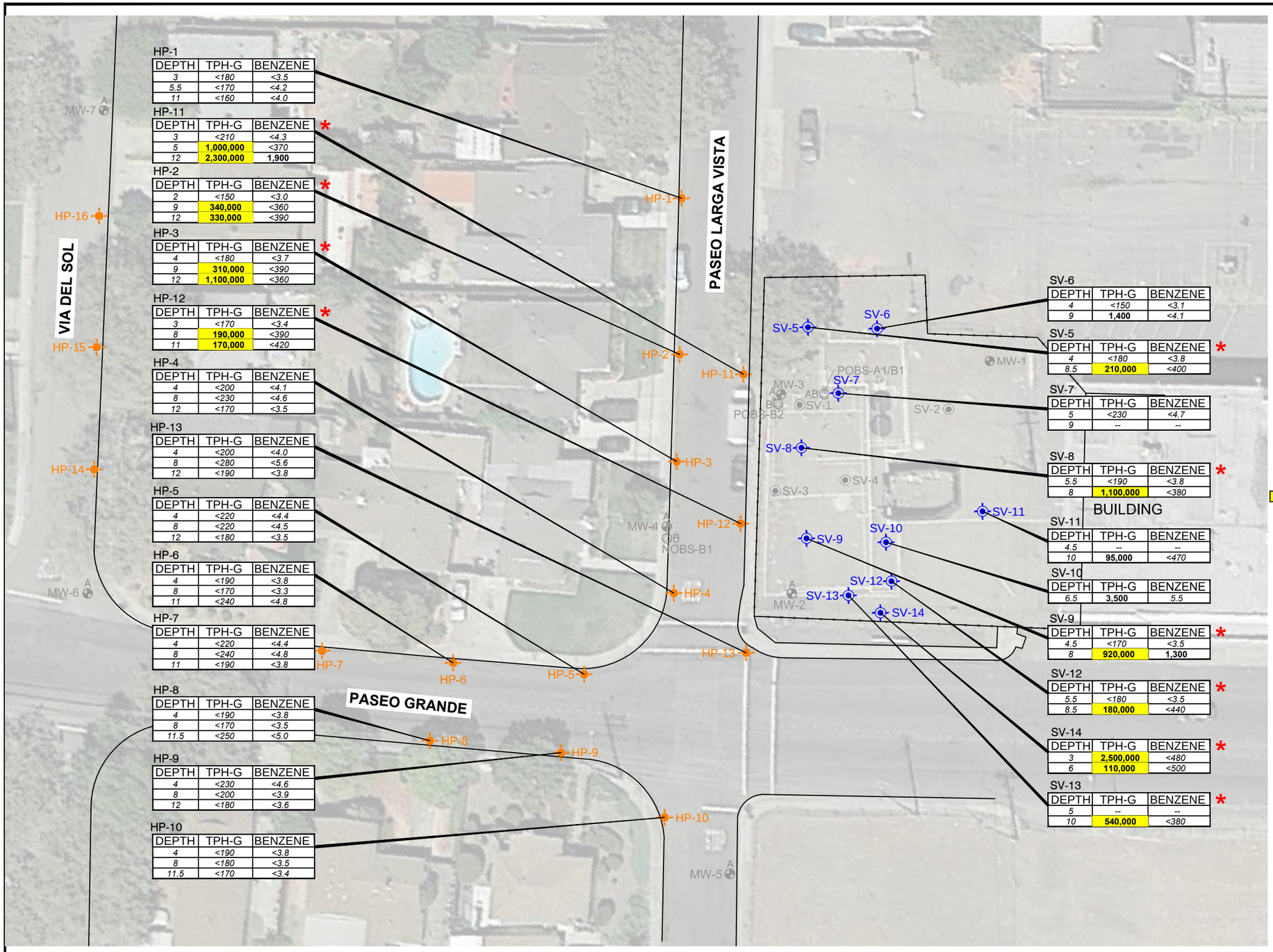
FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 3_BOHANNON_SAMPLE LOCATIONS MAP.dwg|saguinaldo|Feb 05, 2016 at 12:36|Layout: 11X17



HP-1

DEPTH	TPH-G	BENZENE
3	<180	<3.5
5.5	<170	<4.2
11	<160	<4.0

HP-11 *

DEPTH	TPH-G	BENZENE
3	<210	<4.3
5	**1,000,000**	<370
12	**2,300,000**	**1,900**

HP-2 *

DEPTH	TPH-G	BENZENE
2	<150	<3.0
9	**340,000**	<360
12	**330,000**	<390

HP-3 *

DEPTH	TPH-G	BENZENE
4	<180	<3.7
9	**310,000**	<390
12	**1,100,000**	<360

HP-12 *

DEPTH	TPH-G	BENZENE
3	<170	<3.4
8	**190,000**	<390
11	**170,000**	<420

HP-4

DEPTH	TPH-G	BENZENE
4	<200	<4.1
8	<230	<4.6
12	<170	<3.5

HP-13

DEPTH	TPH-G	BENZENE
4	<200	<4.0
8	<280	<5.6
12	<190	<3.8

HP-5

DEPTH	TPH-G	BENZENE
4	<220	<4.4
8	<220	<4.5
12	<180	<3.5

HP-6

DEPTH	TPH-G	BENZENE
4	<190	<3.8
8	<170	<3.3
11	<240	<4.8

HP-7

DEPTH	TPH-G	BENZENE
4	<220	<4.4
8	<240	<4.8
11	<190	<3.8

HP-8

DEPTH	TPH-G	BENZENE
4	<190	<3.8
8	<170	<3.5
11.5	<250	<5.0

HP-9

DEPTH	TPH-G	BENZENE
4	<230	<4.6
8	<200	<3.9
12	<180	<3.6

HP-10

DEPTH	TPH-G	BENZENE
4	<190	<3.8
8	<180	<3.5
11.5	<170	<3.4

SV-6

DEPTH	TPH-G	BENZENE
4	<150	<3.1
9	**1,400**	<4.1

SV-5 *

DEPTH	TPH-G	BENZENE
4	<180	<3.8
8.5	**210,000**	<400

SV-7

DEPTH	TPH-G	BENZENE
5	<230	<4.7
9	--	--

SV-8 *

DEPTH	TPH-G	BENZENE
5.5	<190	<3.8
8	**1,100,000**	<380

SV-11

DEPTH	TPH-G	BENZENE
4.5	--	--
10	**95,000**	<470

SV-10

DEPTH	TPH-G	BENZENE
6.5	**3,500**	5.5

SV-9 *

DEPTH	TPH-G	BENZENE
4.5	<170	<3.5
8	**920,000**	**1,300**

SV-12 *

DEPTH	TPH-G	BENZENE
5.5	<180	<3.5
8.5	**180,000**	<440

SV-14 *

DEPTH	TPH-G	BENZENE
3	**2,500,000**	<480
6	**110,000**	<500

SV-13 *

DEPTH	TPH-G	BENZENE
5	--	--
10	**540,000**	<380

LEGEND

MW-1	MONITORING WELL
NOBS-B1	OBSERVATION WELL
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

SAMPLE DEPTHS (ft. bgs)

DEPTH	TPH-G	BENZENE
3	<180	<3.5
5.5	<170	<4.2
11	<160	<4.0

CONCENTRATIONS (µg/Kg)

(ft. bgs) = FEET BELOW GROUND SURFACE
µg/Kg = MICROGRAMS PER KILOGRAM
TPH-G = TOTAL PETROLEUM HYDROCARBONS, GASOLINE RANGE
-- = NO RECOVERY
* = TPH-G EXCEEDS 100 mg/kg IN SOIL BETWEEN 5 AND 10 FT. bgs (SEE TABLE 4)
= RESULT EXCEEDS RWQCB LOW THREAT CLOSURE CRITERIA FOR VAPOR INTRUSION SCREENING VALUE OF 100 mg/kg FOR TPH-G BETWEEN 0 AND 10 FT. bgs

NOTE:
NO RESULTS EXCEED RWQCB LOW THREAT CLOSURE CRITERIA FOR BENZENE IN SOIL

0 - 5 FT bgs <= 1,900 mg/kg
5 - 10 FT. bgs <=2,800 mg/kg

BOLD INDICATES DETECTED CONCENTRATION.
SAMPLES COLLECTED MAY 16 THROUGH 22, 2014

N

0 40 80

APPROXIMATE SCALE IN FEET

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

TPH-G/BENZENE RESULTS FOR ON AND OFF-SITE SOIL SAMPLES (2013 - 2015)

FIGURE: **4**

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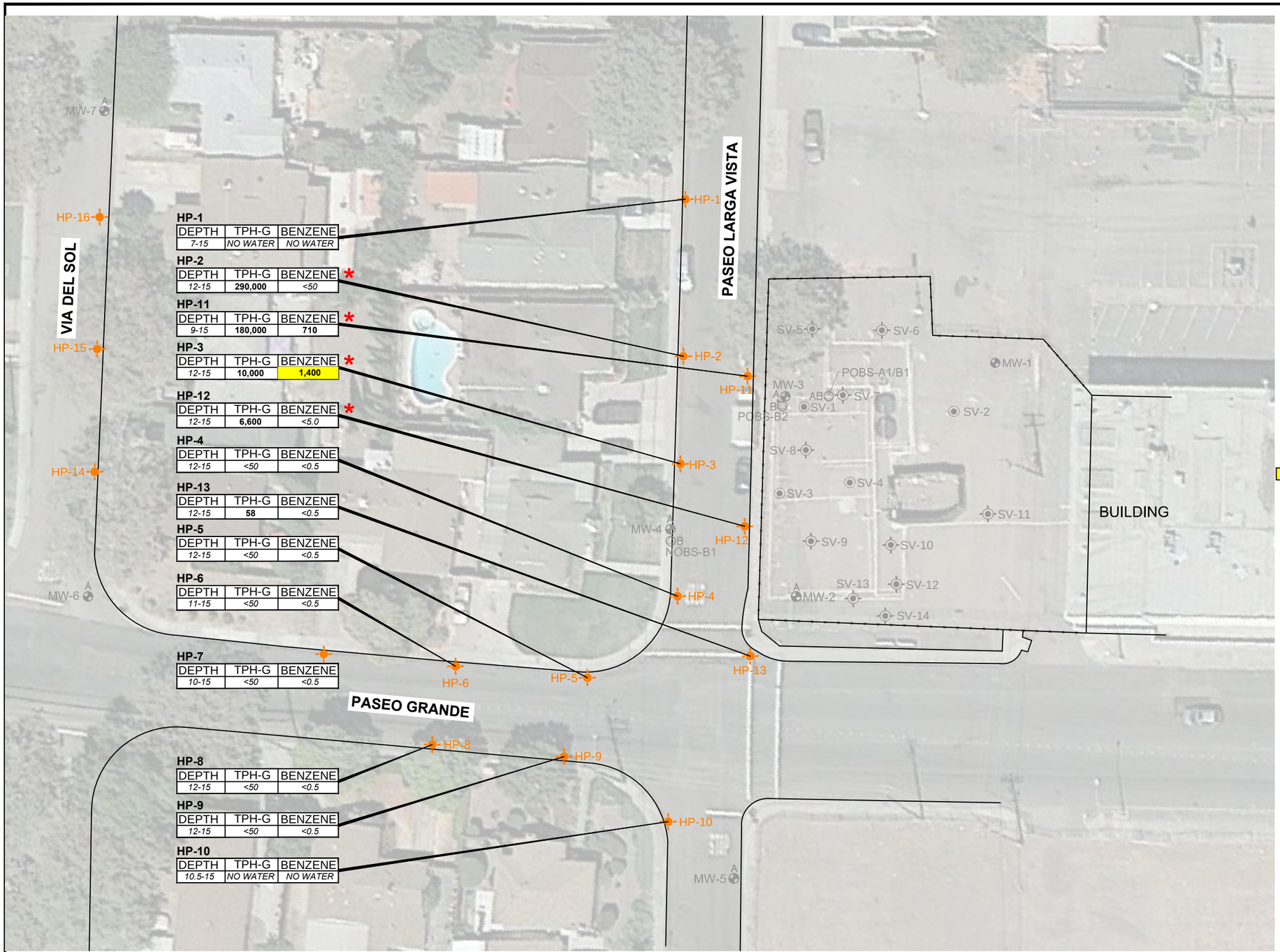
185702534.200.0003	RRR/STA	EH	CRM	02/04/16

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 4_BOHANNON_TPH-BENZENE RESULTS-SOIL MAP.dwg|saguinaldo|Feb 05, 2016 at 12:57|Layout: 11X17



LEGEND

MW-1	MONITORING WELL
NOBS-B1	OBSERVATION WELL
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

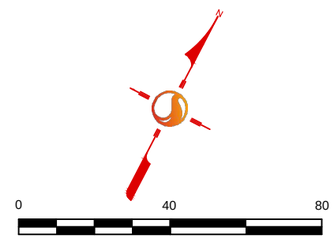
SAMPLE DEPTH (ft. bgs)

DEPTH	TPH-G	BENZENE
12-15	290,000	<50

CONCENTRATIONS (µg/L)

(ft. bgs) = FEET BELOW GROUND SURFACE
ug/L = MICROGRAMS PER LITER
TPH-G = TOTAL PETROLEUM HYDROCARBONS, GASOLINE RANGE
* = TPH-G EXCEEDS 100 mg/kg IN SOIL BETWEEN 5 AND 10 FT. bgs (SEE TABLE 4 AND FIGURE 4)
= RESULT EXCEEDS SCREENING VALUE OF 1,000 ug/L FOR BENZENE - RWQCB LOW THREAT CLOSURE CRITERIA FOR VAPOR INTRUSION

NOTE:
BOLD INDICATES DETECTED CONCENTRATION.
SAMPLES COLLECTED MAY 16 THROUGH 21, 2014



APPROXIMATE SCALE IN FEET

Stantec

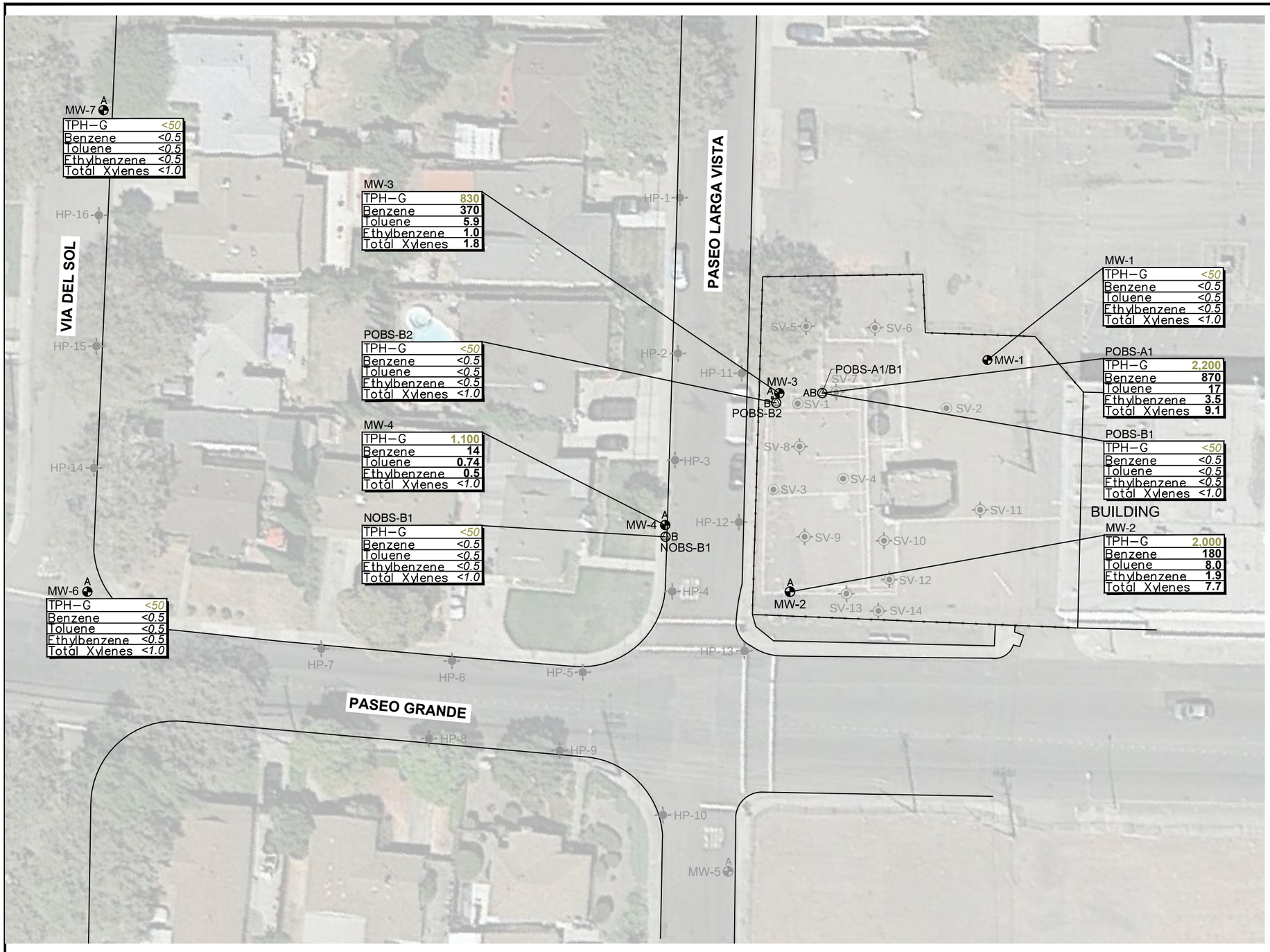
FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

TPH-G/BENZENE RESULTS FOR OFF-SITE GRAB GROUNDWATER SAMPLES (2013 - 2015)

FIGURE: **5**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR/STA	EH	CRM	02/04/16

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 5_BOHANNON_TPH-BENZENE RESULTS-GW MAP.dwg|saguinaldo|Feb 05, 2016 at 12:48|Layout: 11X17



LEGEND

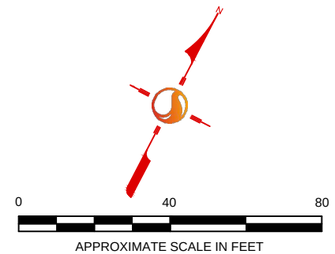
MW-1	MONITORING WELL
NOBS-B1	OBSERVATION WELL
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

NOTE: SAMPLES COLLECTED SEPTEMBER 29 AND 30, 2014



APPROXIMATE SCALE IN FEET

Stantec

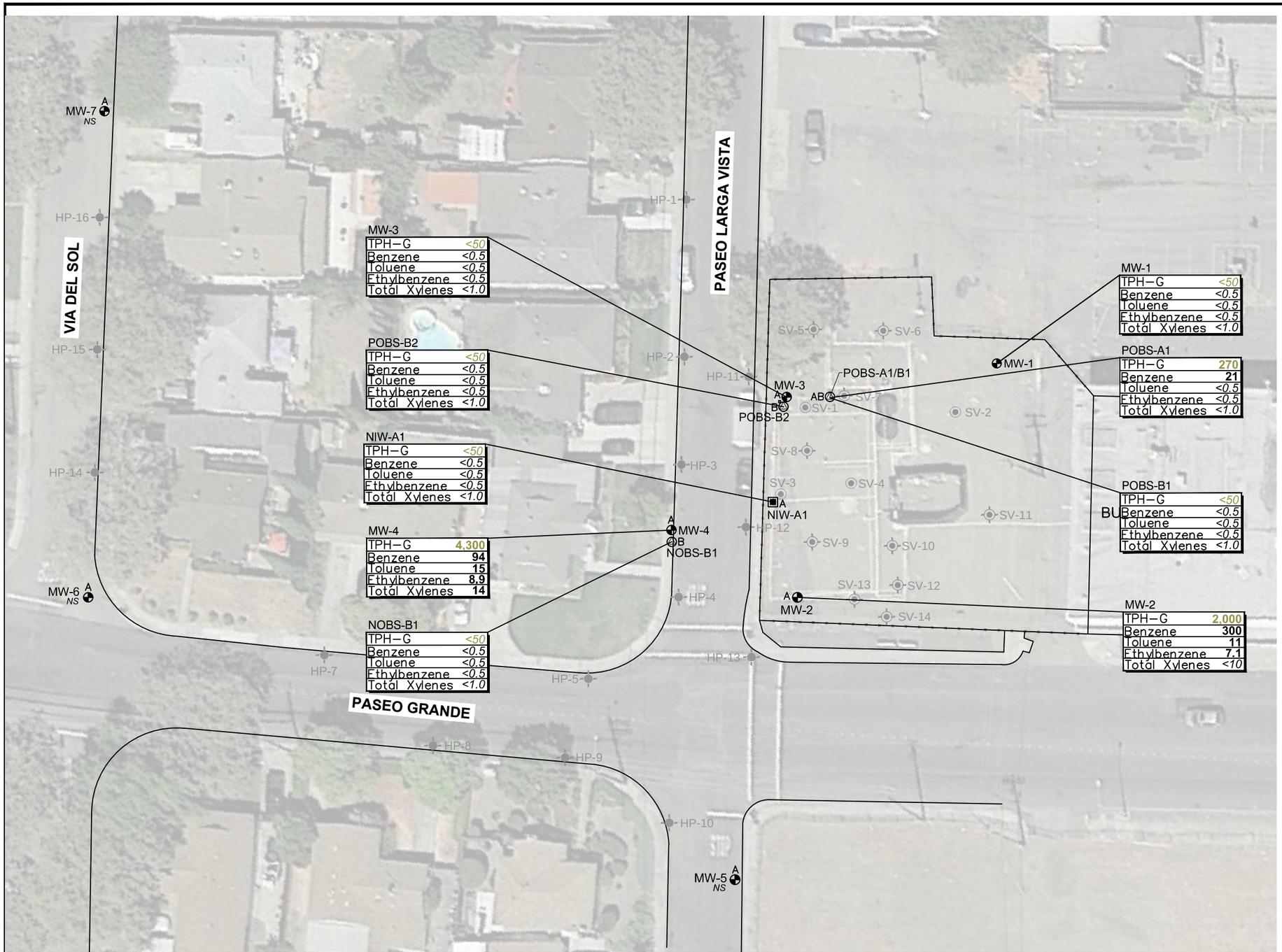
FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUNDWATER SEPTEMBER 2014

FIGURE: **6**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR/STA	EH	CRM	02/04/16

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 6_BOHANNON - 575 Paseo_GW CONCENTRATION.dwg|saguinaldo|Feb 05, 2016 at 13:08|Layout: 11X17



LEGEND

MW-1	MONITORING WELL
PIW-B3	INJECTION WELL
NOBS-B1	OBSERVATION WELL
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

NS NOT SAMPLED

CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (μg/L)

NOTE: SAMPLES COLLECTED APRIL 27, 2015

0 40 80

APPROXIMATE SCALE IN FEET

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION

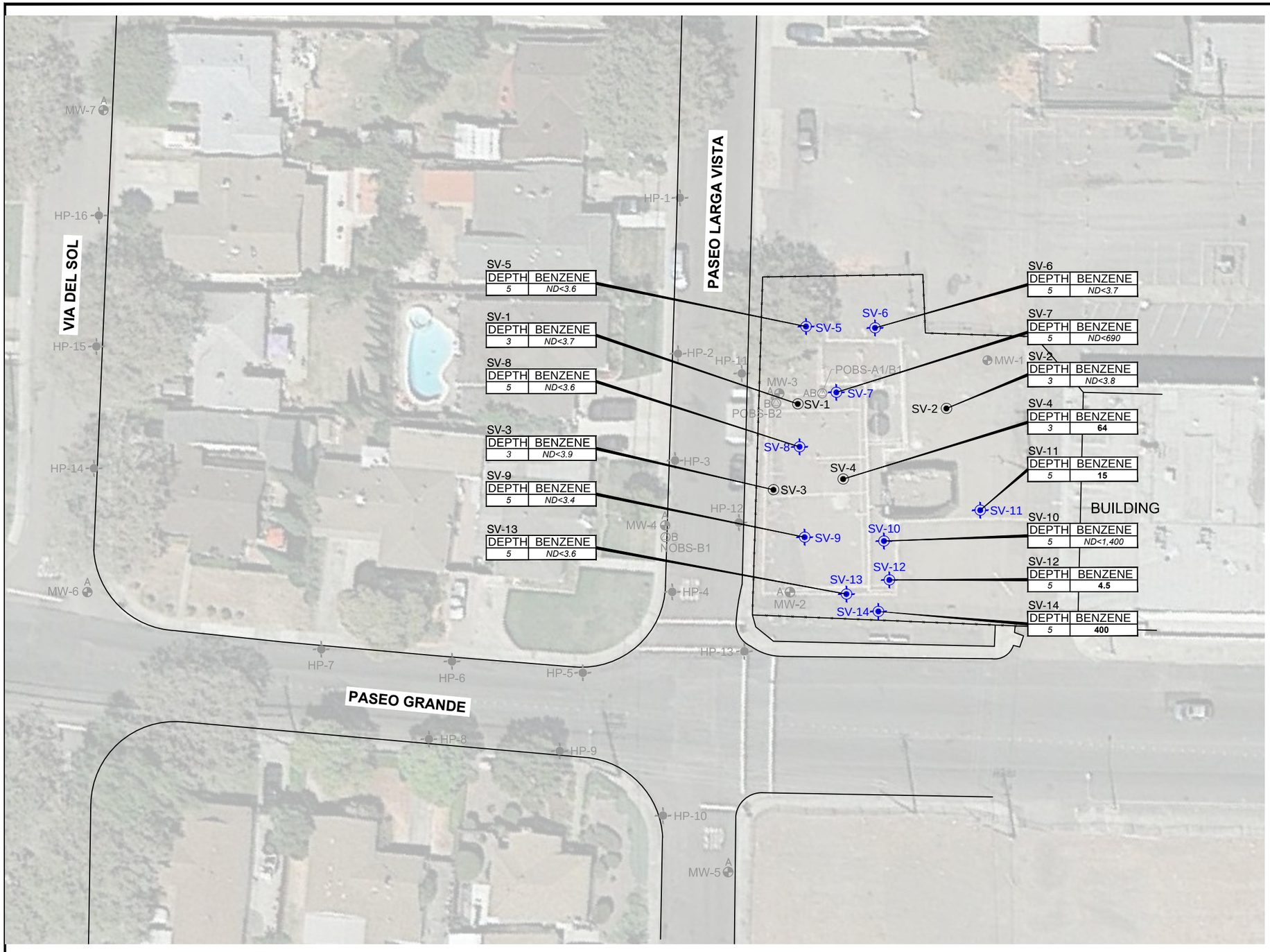
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUNDWATER APRIL 2015

FIGURE: **7**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR/STA	EH	CRM	02/04/16

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 7_BOHANNON - 575 Paseo_GW CONCENTRATION.dwg|saguinaldo|Feb 04, 2016 at 21:19|Layout: 11X17



LEGEND

MW-1	MONITORING WELL
NOBS-B1	OBSERVATION WELL
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

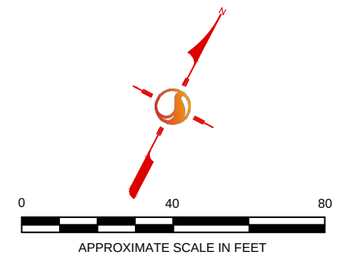
WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

SAMPLE DEPTHS (ft. bgs) — DEPTH 5 | BENZENE 400 — CONCENTRATION ($\mu g/m^3$)

(ft. bgs) = FEET BELOW GROUND SURFACE
$\mu g/m^3$ = MICROGRAMS PER CUBIC METER
ND< = ANALYTE NOT DETECTED ABOVE RESPECTIVE LABORATORY REPORTING LIMIT.

NOTE:
BOLD INDICATES DETECTED CONCENTRATION, SAMPLES COLLECTED MAY 29-30, 2014



Stantec

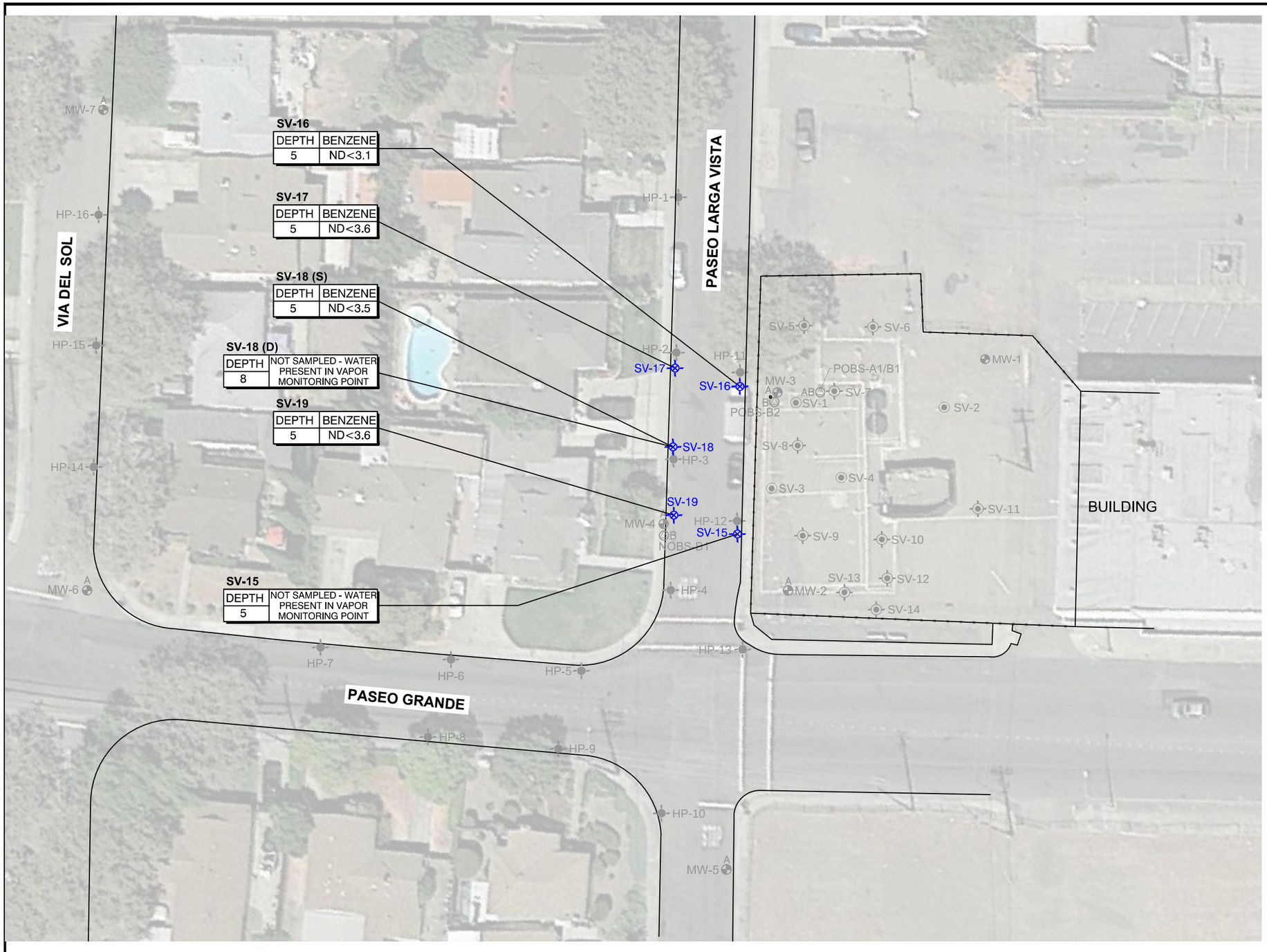
FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

SOIL VAPOR SAMPLE RESULTS FOR ON-SITE SAMPLES MAY 2014

FIGURE: **8**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR/STA	EH	CRM	02/04/16

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 8_BOHANNON_SOIL VAPOR SAMPLE LOCATIONS MAP.dwg|saguinaldo|Feb 05, 2016 at 12:50|Layout: 11X17



LEGEND

MW-1	MONITORING WELL
NOBS-B1	OBSERVATION WELL
SV-5	SOIL VAPOR PROBE LOCATION (STANTEC 2014)
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

SAMPLE DEPTH (ft. bgs) — DEPTH | BENZENE: 5 | ND<3.6 — CONCENTRATION (ug/m³)

(ft. bgs) = FEET BELOW GROUND SURFACE
ug/m³ = MICROGRAMS PER CUBIC METER
ND< = ANALYTE NOT DETECTED ABOVE RESPECTIVE LABORATORY REPORTING LIMIT

NOTE:
BOLD INDICATED DETECTED CONCENTRATION
SAMPLES COLLECTED JANUARY 6, 2015

0 40 80
APPROXIMATE SCALE IN FEET

Stantec

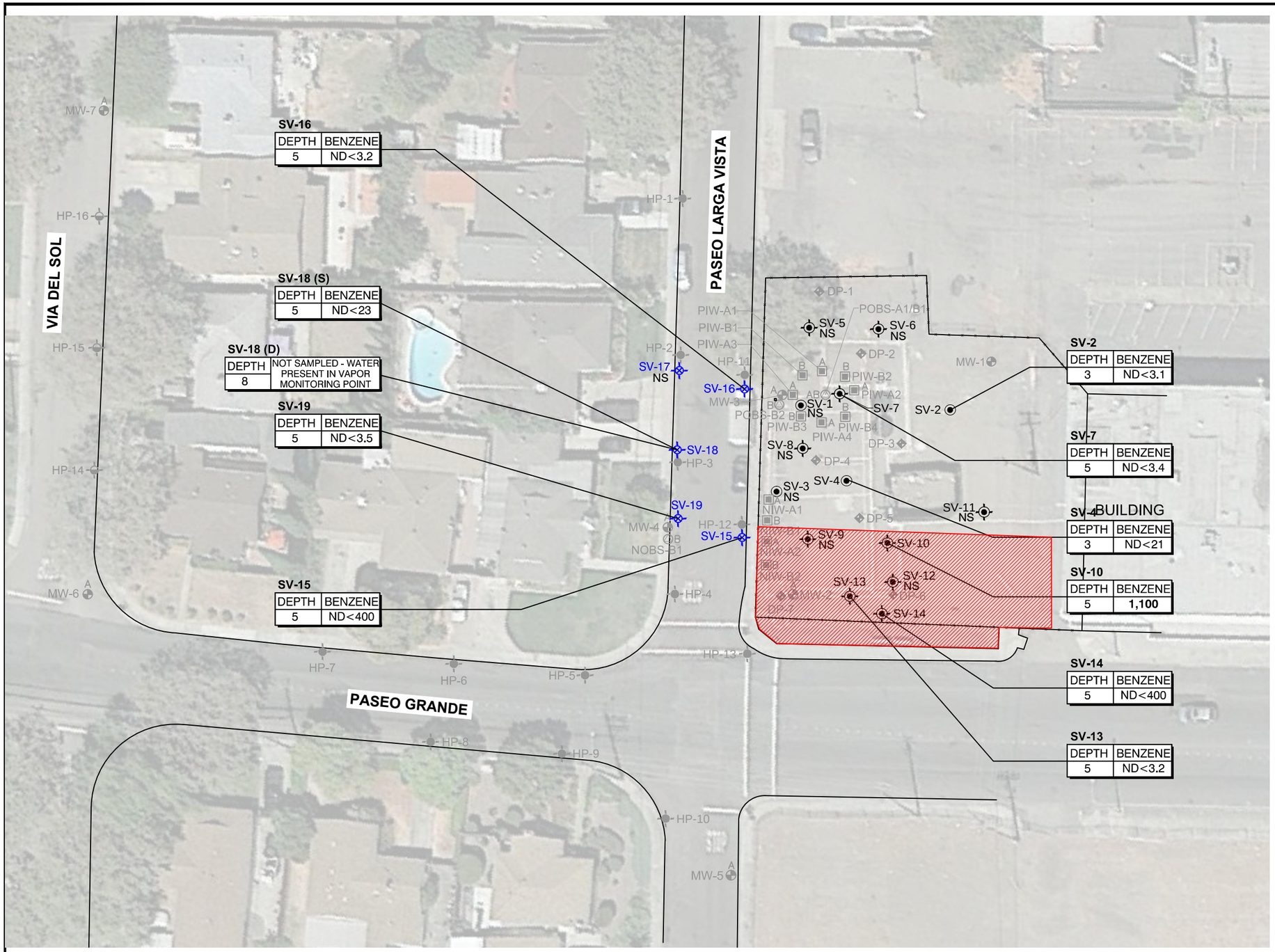
FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

OFF-SITE SOIL VAPOR SAMPLE RESULTS JANUARY 2015

FIGURE: **9**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR/STA	EH	CRM	02/04/16

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 9_BOHANNON_SOIL VAPOR SAMPLE RESULTS_05-23-2015.dwg|saguinaldo|Feb 05, 2016 at 12:52|Layout: 11X17



LEGEND

HP-15	GROUNDWATER SAMPLE LOCATION (STANTEC 2014)
SV-5	SOIL VAPOR PROBE LOCATION (STANTEC 2014)
MW-1	MONITORING WELL
PIW-B3	INJECTION WELL
DP-1	DUAL-PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
NOBS-B1	OBSERVATION WELL
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SV-5	SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
HP-1	SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

SAMPLE DEPTH (ft. bgs) — DEPTH 5 | BENZENE ND<3.5 — CONCENTRATION (ug/m³)

(ft. bgs) = FEET BELOW GROUND SURFACE
ug/m³ = MICROGRAMS PER CUBIC METER
ND< = ANALYTE NOT DETECTED ABOVE RESPECTIVE LABORATORY REPORTING LIMIT
NS = NOT SAMPLED

NOTE:
BOLD INDICATED DETECTED CONCENTRATION
SAMPLES COLLECTED APRIL 28, 2015

AREA WHICH MUST REMAIN PAVED PARKING UNDER REDEVELOPMENT OPTIONS A AND B. (i.e., NO LANDSCAPE OR OCCUPIED STRUCTURES IN THIS AREA UNDER CURRENT SITE CONDITIONS)

N

0 40 80

APPROXIMATE SCALE IN FEET

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

SOIL VAPOR SAMPLE RESULTS APRIL 2015

FIGURE: **10**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185703099.200.0003	RRR/STA	EH	CRM	05/23/15

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2016\FIG 10_BOHANNON_SOIL VAPOR SAMPLE RESULTS_05-22-2015.dwg|saguinaldo|Feb 05, 2016 at 13:11|Layout: 11X17

TABLES

TABLE 1
Well Construction Details
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Installed	Top of Casing Elevation (ft amsl)[1]	Total Depth (ft bgs)	Casing Diameter (inches)	Screen Slot Size (inches)	Screen Length (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)
MW-1	5/10/1996	29.77	15.5	2	0.02	9.75	5.5	15.25
MW-2	5/10/1996	29.54	15.5	2	0.02	9.75	5.5	15.25
MW-3	5/10/1996	29.34	14.5	2	0.02	9.75	4.5	14.25
MW-4	10/2/2000	28.64	15	2	0.02	9	6	15
MW-5	10/2/2000	28.56	15	2	0.02	9	6	15
MW-6	10/2/2000	27.70	15	2	0.02	9	6	15
MW-7	10/2/2000	28.22	15	2	0.02	9	6	15
PIW-A1	5/4/2004	32.46	18	4	0.02	10	8	18
PIW-A2	5/4/2004	32.57	18	4	0.02	10	8	18
PIW-A3	5/4/2004	31.74	18	4	0.02	10	8	18
PIW-A4	5/6/2004	32.35	18	4	0.02	10	8	18
PIW-B1	5/3/2004	32.11	25.5	4	0.02	6	19.5	25.5
PIW-B2	5/3/2004	32.37	26	4	0.02	6	20	26
PIW-B3	5/4/2004	31.91	26	4	0.02	6	20	26
PIW-B4	5/4/2004	32.18	26	4	0.02	6	20	26
POBS-A1	5/6/2004	29.84	18	1	0.02	10	8	18
POBS-B1	5/6/2004	29.95	26	1	0.02	6	20	26
POBS-B2	5/6/2004	29.21	26	2	0.02	6	20	26
NIW-A1	5/5/2004	31.53	18	4	0.02	10	8	18
NIW-A2	5/5/2004	30.80	18	4	0.02	10	8	18
NIW-B1	5/5/2004	29.91	26	4	0.02	6	20	26
NIW-B2	5/5/2004	31.04	26	4	0.02	6	20	26
NOBS-B1	5/7/2004	28.54	26	2	0.02	6	20	26
DP-1	9/30/2005	32.53	20.5	8	0.02	10	4.75	14.75
DP-2	9/29/2005	32.35	20	8	0.02	10	4.25	14.25
DP-3	9/29/2005	32.22	20	8	0.02	10	4.50	14.50
DP-4	9/28/2005	32.07	20	8	0.02	10	4.25	14.25
DP-5	9/28/2005	32.24	20.25	8	0.02	9.75	4.75	14.50
DP-6	9/29/2005	31.66	20.25	8	0.02	10	4.50	14.50
DP-7	9/29/2005	31.34	20.25	8	0.02	10	4.50	14.50

Abbreviations:
ft amsl = feet above mean sea level
ft bgs = feet below ground surface
in = inches
NA = Not Available or Not Known

Notes:
1) Top of casing elevations surveyed by Mid Coast Engineers on September 24, 2012; North American Vertical Datum of 1988, NAVD 88
2) Well construction information in Table 1 was updated in September 2012 for GeoTracker® compliance.

TABLE 2
Monitoring Well Groundwater Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
Groundwater Monitoring Wells															
MW-1	05/17/96	**1,100**	<0.5	**8.7**	**7.4**	**17**	--	--	--	--	--	--	--	<10	<50
	10/08/96	**120**	<0.5	<0.5	**2.7**	<0.5	--	--	--	--	--	--	--	--	--
	04/01/97	**550**	<0.5	<0.5	**7.6**	**6.6**	--	--	--	--	--	--	--	--	--
	06/12/97	**160**	<0.5	<0.5	**2.9**	**1.7**	--	--	--	--	--	--	--	--	--
	09/10/97	**640**	**2.2**	**3.8**	**7.4**	**16**	--	--	--	--	--	--	--	--	--
	06/08/99	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<10	<10	<20
	09/13/99	<50	<0.5	<0.5	<0.5	**1.1**	--	--	--	--	--	--	--	--	<5
	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	
	03/17/00	<50	<0.5	<0.5	<0.5	**0.79**	--	--	--	--	--	--	<5	--	<5
	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<5		<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	06/18/04	**150**	**1.5**	<0.5	**2.7**	**2.4**	--	--	--	--	--	--	--	--	--
	05/27/05	<50	**1.6**	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	04/27/15	<50	<0.5	<0.5	<0.5	<1.0	**2.3**	**1.1**	**3.9**	<0.5	<0.5	<0.5	<0.5	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
Monitoring Well Groundwater Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
MW-2	05/17/96	**23,000**	**900**	**330**	**650**	**1,500**	--	--	--	--	--	--	--	<10	<50
	10/08/96	**8,400**	**530**	<50	**400**	**360**	--	--	--	--	--	--	--	--	--
	04/01/97	**7,600**	**470**	**64**	**210**	**250**	--	--	--	--	--	--	--	--	--
	06/12/97	**8,200**	**440**	**52**	**190**	**190**	--	--	--	--	--	--	--	--	--
	09/10/97	**8,500**	**390**	**51**	**220**	**240**	--	--	--	--	--	--	--	--	--
	06/08/99	**2,100**	**240**	**8**	**33**	**40**	--	--	--	--	--	--	<10	<10	**33**
	09/13/99	**1,300**	**120**	<5	<5	**15**	--	--	--	--	--	--	--	--	--
	12/21/99	**1,400**	**110**	**5.6**	**11**	**17**	--	--	--	--	--	--	--	--	<5
	03/17/00	**1,200**	**180**	**19**	**28**	**31**	--	--	--	--	--	--	<50	--	<5
	12/05/00	**800**	**75**	**1.8**	**11**	**14**	--	--	--	--	--	--	--	--	--
	02/28/01	**1,200**	**120**	**7.1**	**19**	**27**	--	--	--	--	--	--	--	--	--
	08/22/01	**990**	**75**	**3.5**	**8.9**	**8.1**	--	--	--	--	--	--	<5	--	<5
	05/22/02	**1,700**	**230**	**12**	**12**	**25**	--	--	--	--	--	--	--	--	--
	08/29/02	**1,000**	**66**	**2.6**	**12**	**12**	--	--	--	--	--	--	--	--	--
	12/02/02	**1,100**	**76**	**8.7**	**11**	**17**	--	--	--	--	--	--	--	--	--
	03/04/03	**1,100**	**130**	**4.5**	**22**	**24**	--	--	--	--	--	--	--	--	--
	12/18/03	**910**	**55**	**4.1**	**3.3**	**3.7**	--	--	--	--	--	--	--	--	--
	04/13/04	**2,700**	**350**	**15**	**18**	**24**	--	--	--	--	--	--	--	--	--
	10/05/04	**2,000**	**120**	**5.5**	<2.5	**8.3**	--	--	--	--	--	--	--	--	--
	05/27/05	**5,700**	**450**	**53**	**240**	**71**	--	--	--	--	--	--	--	--	--
	08/24/06	**1,400**	**90**	**4.7**	**16**	**21**	--	--	--	--	--	--	--	--	--
	01/13/10	**130** J	**1.2**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	**350**	**22**	<0.5	**2.1**	<1.0	--	--	--	--	--	--	--	--	--
	09/18/12	**410**	**4.7**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/15/12	**350**	**3.2**	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/12/13	**410**	**20**	**1.1**	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/27/14	**450**	**32**	**1.1**	**1.2**	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	**2,000**	**180**	**8**	**1.9**	7.7	--	--	--	--	--	--	--	--	--
	04/27/15	**2,000**	**300**	**11**	**7.1**	<10	<5.0	<5.0	<5.0	**18**	**30**	**120**	<5.0	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
Monitoring Well Groundwater Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
MW-3	05/17/96	**6,700**	**140**	**45**	**210**	**180**	--	--	--	--	--	--	--	<10	<50
	10/08/96	**1,800**	**2,700**	**240**	**910**	**970**	--	--	--	--	--	--	--	--	--
	04/01/97	**27,000**	**520**	**50**	**520**	**450**	--	--	--	--	--	--	--	--	--
	06/12/97	**29,000**	**2,700**	**160**	**940**	**500**	--	--	--	--	--	--	--	--	--
	09/10/97	**290,000**	**1,800**	**3,200**	**2,800**	**6,900**	--	--	--	--	--	--	--	--	--
	06/08/99	**1,700**	**320**	**6.4**	**15**	<0.5	--	--	--	--	--	--	<10	<10	**24**
	09/13/99	**5,400**	**1,000**	<20	<20	<20	--	--	--	--	--	--	--	--	--
	12/21/99	**8,800**	**1,400**	**63**	**17**	23	--	--	--	--	--	--	--	--	<5
	03/17/00	**1,500**	**190**	<5	**7.6**	<5	--	--	--	--	--	--	<50		<5
	12/05/00	**5,400**	**790**	**20**	**7.4**	**10**	--	--	--	--	--	--	--	--	--
	02/28/01	**3,600**	**850**	**15**	**25**	**10**	--	--	--	--	--	--	--	--	--
	08/22/01	**8,100**	**1,600**	**28**	**44**	**17**	--	--	--	--	--	--	<50	--	<5
	05/22/02	**5,400**	**1,000**	**32**	**13**	**21**	--	--	--	--	--	--	--	--	--
	08/29/02	**6,700**	**1,700**	**55**	**49**	**38**	--	--	--	--	--	--	--	--	--
	12/02/02	**5,700**	**650**	**17**	**37**	**33**	--	--	--	--	--	--	--	--	--
	03/04/03	**5,000**	**650**	**18**	**42**	**27**	--	--	--	--	--	--	--	--	--
	12/18/03	**5,200**	**910**	**25**	**20**	**21**	--	--	--	--	--	--	--	--	--
	04/13/04	**3,900**	**1,200**	**19**	<5.0	<10	--	--	--	--	--	--	--	--	--
	06/18/04	**4,300**	**1,600**	**40**	**81**	**26**	--	--	--	--	--	--	--	--	--
	08/27/04	**6,900**	**2,100**	**59**	**220**	<50	--	--	--	--	--	--	--	--	--
	10/05/04	**9,800**	**2,500**	**52**	**160**	**38**	--	--	--	--	--	--	--	--	--
	12/02/04	**8,300**	**2,400**	**41**	**200**	**29**	--	--	--	--	--	--	--	--	--
	12/14/04	**15,000**	**3,600**	**140**	**560**	**210**	--	--	--	--	--	--	--	--	--
	05/27/05	**5,500**	**840**	**36**	**210**	**41**	--	--	--	--	--	--	--	--	--
	08/23/06	**1,700**	**190**	**5.3**	**51**	<10	--	--	--	--	--	--	--	--	--
	01/13/10	<50	**2**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/18/12	**480/440**	**110/100**	**2.6/2.4**	**0.66/0.62**	**1.2/1.1**	--	--	--	--	--	--	--	--	--
	11/16/12	**66**	**2.0**	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/12/13	**110**	**7.0**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/27/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	**830**	**370**	**5.9**	**1.0**	**1.8**	--	--	--	--	--	--	--	--	--
	04/27/15	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
Monitoring Well Groundwater Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
MW-4	12/05/00	**3,900**	**320**	**13**	**41**	**31**	--	--	--	--	--	--	--	--	<5
	02/28/01	**3,400**	**250**	**14**	**44**	**22**	--	--	--	--	--	--	--	--	<5
	08/22/01	**4,800**	**260**	**12**	**27**	**9**	--	--	--	--	--	--	<50	--	<5
	05/22/02	**5,100**	**320**	**29**	**74**	**50**	--	--	--	--	--	--	--	--	--
	08/29/02	**3,700**	**260**	<5	**30**	**28**	--	--	--	--	--	--	--	--	--
	12/02/02	**5,100**	**250**	**8.9**	**26**	**22**	--	--	--	--	--	--	--	--	--
	03/04/03	**4,500**	**170**	**18**	**63**	**47**	--	--	--	--	--	--	--	--	--
	12/18/03	**2,900**	**160**	**8.3**	**8**	<5	--	--	--	--	--	--	--	--	--
	04/13/04	**7,400**	**290**	**29**	**110**	**100**	--	--	--	--	--	--	--	--	--
	06/18/04	**2,700**	**140**	**12**	**36**	**16**	--	--	--	--	--	--	--	--	--
	08/27/04	**460**	**19**	**1.2**	**1.1**	**1.5**	--	--	--	--	--	--	--	--	--
	10/05/04	**460**	**19**	<1.0	<1.0	<1.0	--	--	--	--	--	--	--	--	--
	12/02/04	**2,800**	**120**	**5.4**	**8.3**	**5.3**	--	--	--	--	--	--	--	--	--
	05/27/05	**7,300**	**350**	**37**	**100**	**50**	--	--	--	--	--	--	--	--	--
	08/24/06	**2,400**	**59**	**8.2**	**19**	**14**	--	--	--	--	--	--	--	--	--
	01/14/10	**400** [J]	**1.6**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	**6,800**	**190**	**26**	**15**	**25**	--	--	--	--	--	--	--	--	--
	06/08/12	**3,400**	**83**	**11**	**7.1**	**11**	--	--	--	--	--	--	<0.50	--	--
	09/18/12	**1,400**	**25**	**4.2**	**1.2**	**3.6**	--	--	--	--	--	--	--	--	--
	11/15/12	**4,000**	**69**	**6.4**	<2.5	<2.5-5.0	--	--	--	--	--	--	--	--	--
	12/11/13	**6,900**	**190**	**17**	**3.3**	**16**	--	--	--	--	--	--	--	--	--
DUP	12/11/13	**7,700**	**240**	**22**	**4.2**	**20**	--	--	--	--	--	--	--	--	--
	03/26/14	**5,500**	**130**	**13**	**3.9**	**9.8**	--	--	--	--	--	--	--	--	--
DUP	03/26/14	**5,500**	**130**	**13**	**4.0**	**9.5**	--	--	--	--	--	--	--	--	--
	09/30/14	**1,100**	**14**	**0.74**	**0.51**	<1.0	--	--	--	--	--	--	--	--	--
	04/27/15	**4,300**	**94**	**15**	**8.9**	**14**	<2.5	<2.5	<2.5	**21**	**36**	**110**	<2.5	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
Monitoring Well Groundwater Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
MW-5	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	12/02/05	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	01/14/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
MW-6	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
Monitoring Well Groundwater Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
MW-7	12/05/00	<50	<0.5	<0.5	<0.5	**1.5**	--	--	--	--	--	--	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	**6.7**	--	--	--	--	--	--	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/04/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
Peroxide Treatment Area - A Zone Injection Wells															
PIW-A1	05/13/04	**6,800**	**460**	**50**	**31**	**300**	--	--	--	--	--	--	--	--	--
	06/18/04	**240**	**10**	**2.1**	**4**	**11**	--	--	--	--	--	--	--	--	--
	08/27/04	**220**	**14**	**1.2**	**2**	**5**	--	--	--	--	--	--	--	--	--
	10/05/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	12/02/04	**640**	**63**	**12.0**	**15**	**29**	--	--	--	--	--	--	--	--	--
PIW-A2	05/13/04	**20,000**	**1,500**	**460**	**760**	**2,600**	--	--	--	--	--	--	--	--	--
	06/18/04	**2,800**	**150**	**14**	**6.5**	**90**	--	--	--	--	--	--	--	--	--
	08/27/04	**500**	**34**	**3**	**4.4**	**12**	--	--	--	--	--	--	--	--	--
	12/02/04	**350**	**6.1**	**1.2**	**2.4**	**5.4**	--	--	--	--	--	--	--	--	--
PIW-A3	12/14/04	**1,500**	**220**	**28**	**55**	**99**	--	--	--	--	--	--	--	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

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Monitoring Well Groundwater Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
Peroxide Treatment Area - B Zone Injection Wells															
PIW-B1	05/13/04	**1,900**	**28**	<5.0	**11**	**51**	--	--	--	--	--	--	--	--	--
	06/18/04	**270**	**22**	**1**	**2.2**	**2.7**	--	--	--	--	--	--	--	--	--
	08/27/04	**230**	**11**	**0.85**	**1.7**	**4.3**	--	--	--	--	--	--	--	--	--
	12/02/02	**66**	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
							--	--	--	--	--	--			
PIW-B3	05/13/04	**3,300**	**420**	**17**	**7.8**	**44**	--	--	--	--	--	--	--	--	--
	06/18/04	**180**	**1.2**	<0.5	<0.5	**2.4**	--	--	--	--	--	--	--	--	--
	08/27/04	**230**	**20.0**	**0.93**	**3.3**	**2.9**	--	--	--	--	--	--	--	--	--
	12/02/04	**64**	**0.75**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
Peroxide Treatment Area - A Zone Observation Wells															
POBS-A1	05/13/04	**16,000**	**2,200**	**220**	**480**	**980**	--	--	--	--	--	--	--	--	--
	06/18/04	**11,000**	**2,200**	**150**	**120**	**820**	--	--	--	--	--	--	--	--	--
	08/27/04	**23,000**	**2,900**	**140**	**180**	**470**	--	--	--	--	--	--	--	--	--
	10/05/04	**13,000**	**2,400**	**83**	**130**	**94**	--	--	--	--	--	--	--	--	--
	12/02/04	**17,000**	**3,500**	**240**	**210**	**730**	--	--	--	--	--	--	--	--	--
	12/14/04	**13,000**	**2,700**	**200**	**220**	**510**	--	--	--	--	--	--	--	--	--
	05/27/05	**9,600**	**1,200**	**62**	**110**	**180**	--	--	--	--	--	--	--	--	--
	08/24/06	**8,500**	**1,700**	**58**	**120**	**100**	--	--	--	--	--	--	--	--	--
	01/13/10	**7,300** J	**1,100**	**29**	**53**	**42**	--	--	--	--	--	--	--	--	--
	05/04/12	**540**	**110**	**2.0**	**1.4**	<1.0	--	--	--	--	--	--	--	--	--
	09/18/12	**2,600**	**1,100**	**27**	**8.3**	**18**	--	--	--	--	--	--	--	--	--
	11/16/12	**4,700/4,700**	**1,600/1,700**	**36/35**	**6.6/6.3**	**28.1/27.1**	--	--	--	--	--	--	--	--	--
	12/12/13	**2,600**	**1,200**	**28**	<5.0	**15**	--	--	--	--	--	--	--	--	--
	03/27/14	**510**	**40**	**1.3**	**0.72**	**2.3**	--	--	--	--	--	--	--	--	--
	09/30/14	**2,200**	**870**	**17**	**3.5**	**9.1**	--	--	--	--	--	--	--	--	--
	04/27/15	**270**	**21**	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	**4.4**	**8.0**	<0.5	<0.5	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2
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Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
Peroxide Treatment Area - B Zone Observation Wells															
POBS-B1	05/13/04	**11,000**	**250**	**71**	**160**	**590**	--	--	--	--	--	--	--	--	--
	06/18/04	**3,500**	**9.8**	<0.5	**0.8**	**13**	--	--	--	--	--	--	--	--	--
	08/27/04	**500**	**1.4**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	12/02/04	**190**	**2.6**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/27/05	**68**	**17.0**	<0.5	**1.6**	**0.52**	--	--	--	--	--	--	--	--	--
	08/24/06	**50**	**1.1**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/04/12	<50	**0.80**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/16/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/27/14	**390**	**63**	**1.5**	**0.72**	<1.0	--	--	--	--	--	--	--	--	
	09/29/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	
	04/27/15	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
POBS-B2	05/13/04	**4,500**	**150**	**23**	**11**	**120**	--	--	--	--	--	--	--	--	--
	06/18/04	**97**	**7.4**	**0.8**	**1.6**	**1.7**	--	--	--	--	--	--	--	--	--
	08/27/04	**240**	**36.0**	**1.6**	**6.7**	**4.2**	--	--	--	--	--	--	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/27/05	**97**	**33.0**	**0.56**	**1.3**	**0.74**	--	--	--	--	--	--	--	--	--
	08/24/06	**57**	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	**83**	**8.8**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/16/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--	--	--	--	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/27/14	<50	**6.0**	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	04/27/15	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

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Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
Nitrate Injection Area - A Zone Injection Wells															
NIW-A1	05/13/04	**9,300**	**1,800**	**59**	**250**	**96**	--	--	--	--	--	--	--	--	--
	06/18/04	**3,100**	**340**	**22**	**93**	**55**	--	--	--	--	--	--	--	--	--
	08/27/04	**250**	**13**	**1.4**	**6**	**5.7**	--	--	--	--	--	--	--	--	--
	10/05/04	**1,700**	**150**	<5.0	**24**	**12**	--	--	--	--	--	--	--	--	--
	12/02/04	**1,400**	**28**	**6.2**	**10**	**23**	--	--	--	--	--	--	--	--	--
	05/27/05	**14,000**	**1,300**	**61.0**	**680**	**300**	--	--	--	--	--	--	--	--	--
	04/27/15	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
NIW-A2	05/13/04	**970**	**18**	<2.5	<2.5	**4**	--	--	--	--	--	--	--	--	--
	06/18/04	**200**	**6.4**	**1.7**	**2.1**	**3.5**	--	--	--	--	--	--	--	--	--
	08/27/04	<500	**6.3**	<5.0	<5.0	<10	--	--	--	--	--	--	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/27/05	**550**	**14.0**	**0.7**	**1.8**	**0.93**	--	--	--	--	--	--	--	--	--
Nitrate Injection Area - B Zone Injection Wells															
NIW-B1	05/13/04	**170**	**6.5**	**1.1**	**2.4**	**8.0**	--	--	--	--	--	--	--	--	--
	06/18/04	**160**	**2.9**	**0.7**	**2.6**	**2.5**	--	--	--	--	--	--	--	--	--
	08/27/04	**110**	**6.9**	<0.5	**1.4**	**2.0**	--	--	--	--	--	--	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
NIW-B2	05/13/04	**260**	**8.9**	**1.5**	**4**	**8.4**	--	--	--	--	--	--	--	--	--
	06/18/04	**120**	**1.0**	<0.5	**1.1**	<1.0	--	--	--	--	--	--	--	--	--
	08/27/04	**120**	**4.4**	<0.5	**1.1**	**1.6**	--	--	--	--	--	--	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

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Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	cis-1,2-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Isopropyl-benzene (µg/L)	N-propyl-benzene (µg/L)	Naphthalene (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (mg/L)
Nitrate Injection Area - Observation Wells															
NOBS-B1	05/13/04	**120**	**4.6**	**0.8**	**2.3**	**5.4**	--	--	--	--	--	--	--	--	--
	06/18/04	**88**	**1.9**	**0.7**	**1.7**	<1.0	--	--	--	--	--	--	--	--	--
	08/27/04	**180**	**5.5**	**0.53**	**0.99**	**1.6**	--	--	--	--	--	--	--	--	--
	12/02/04	<50	2.0	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
	04/27/15	<50	<0.5	<0.5	<0.5	<1.0	**2.1**	**8.7**	**3.7**	<0.5	<0.5	<0.5	**0.89**	--	--
LTC - Groundwater		--	*3000*	--	--	--	6.0*	5.0*	5.0*	--	--	6.1*	1000	--	--
LTC - Vapor Intrusion		--	*1000*	--	--	--	--	--	--	--	--	--	--	--	--

Abbreviations:

mg/L = micrograms per liter
MTBE = methyl tert-butyl ether
TPH-G = Total Petroleum Hydrocarbons, Gasoline Range
-- = water sample not analyzed for specified constituents
DUP = Duplicate
LTC = Low threat closure criteria for Commercial/Industrial scenario(California Regrional Water Quality Control Board)
LTC - Groundwater = groundwater media specific criteria
LTC - Vapor Intrusion = petroleum vapor intrusion media specific criteria

Notes:

Bold indicates detected concentration.
J = the chromatograph for this sample does not match the chromatographic pattern of the specified standard
* = San Francisco Bay Regional Water Quality Control Board 2013 Tier 1 Environmental Screening Level (ESL) for groundwater water which is a current or potential drinking water resource.

TABLE 3
Groundwater Elevation Data
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Well	Date Sampled	TOC Elevation[1] (ft amsl)	DTW (ft BTOC)	Groundwater Elevation (ft amsl)
MW-1	05/17/96	27.11	5.65	21.46
	10/08/96		7.47	19.64
	04/01/97		6.27	20.84
	06/12/97		6.90	20.21
	09/10/97		7.48	19.63
	06/08/99		6.44	20.67
	09/13/99		7.56	19.55
	12/21/99		7.41	19.70
	03/17/00		5.35	21.76
	12/05/00	26.98	6.99	19.99
	02/28/01		5.71	21.27
	08/22/01		7.39	19.59
	05/22/02		6.25	20.73
	08/29/02		7.23	19.75
	12/02/02		7.13	19.85
	03/04/03		5.77	21.21
	12/18/03		6.37	20.61
	04/13/04		6.13	20.85
	12/02/04		6.93	20.05
	05/27/05		5.90	21.08
	08/24/06		6.79	20.19
	01/13/10		6.59	20.39
	05/03/12		5.92	21.06
	09/18/12	29.77	7.32	22.45
	11/15/12		7.08	22.69
	12/11/13		7.04	22.73
	03/26/14		6.76	23.01
	09/29/14		8.28	21.49
	04/27/15		6.58	23.19
MW-2	05/17/96	26.73	5.56	21.17
	10/08/96		7.15	19.58
	04/01/97		6.61	20.12
	06/12/97		6.76	19.97
	09/10/97		7.19	19.54
	06/08/99		6.45	20.28
	09/13/99		7.46	19.27
	12/21/99		7.26	19.47
	03/17/00		5.56	21.17
	12/05/00	26.73	7.01	19.72
	02/28/01		5.81	20.92
	08/22/01		7.42	19.31
	05/22/02		6.40	20.33
	08/29/02		7.26	19.47
	12/02/02		7.02	19.71
	03/04/03		5.91	20.82
	12/18/03		6.47	20.26
	04/13/04		6.28	20.45
	12/02/04		6.80	19.93
	05/27/05		6.11	20.62
	08/24/06		6.90	19.83
	01/13/10		6.53	20.20

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Well	Date Sampled	TOC Elevation[1] (ft amsl)	DTW (ft BTOC)	Groundwater Elevation (ft amsl)
MW-2 cont.	05/03/12	29.54	6.17	20.56
	09/18/12		7.37	22.17
	11/15/12		7.12	22.42
	12/11/13		7.01	22.53
	03/26/14		6.75	22.79
	09/29/14		8.24	21.30
	04/27/15		6.75	22.79
MW-3	05/17/96	26.15	4.39	21.76
	10/08/96		6.82	19.33
	04/01/97		5.53	20.62
	06/12/97		6.18	19.97
	09/10/97		6.81	19.34
	06/08/99		5.74	20.41
	09/13/99		6.88	19.27
	12/21/99		6.66	19.49
	03/17/00		4.51	21.64
	12/05/00	26.55	6.84	19.71
	02/28/01		5.44	21.11
	08/22/01		7.29	19.26
	05/22/02		6.22	20.33
	08/29/02		7.26	19.29
	12/02/02		6.85	19.70
	03/04/03		5.72	20.83
	12/18/03		6.15	20.40
	04/13/04		5.97	20.58
	12/02/04		6.64	19.91
	05/27/05		5.74	20.81
	08/23/06		6.69	19.86
	01/13/10		6.08	20.47
	05/03/12	29.34	5.72	20.83
	09/18/12		7.18	22.16
	11/15/12		6.90	22.44
	12/11/13		6.77	22.57
	03/26/14		4.58	24.76
	09/29/14		8.11	21.23
	04/27/15		6.84	22.50
MW-4	12/05/00	25.87	6.28	19.59
	02/28/01		4.99	20.88
	08/22/01		6.73	19.14
	05/22/02		5.50	20.37
	08/29/02		6.55	19.32
	12/02/02		6.28	19.59
	03/04/03		5.28	20.59
	12/18/03		5.85	20.02
	04/13/04		5.50	20.37
	12/02/04		6.05	19.82
	05/27/05		5.46	20.41
	08/24/06		6.15	19.72
	01/13/10		5.78	20.09
	05/03/12		5.38	20.49
	06/08/12		5.87	20.00

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Well	Date Sampled	TOC Elevation[1] (ft amsl)	DTW (ft BTOC)	Groundwater Elevation (ft amsl)
MW-4 cont.	09/18/12	28.64	6.65	21.99
	11/15/12		6.38	22.26
	12/11/13		6.20	22.44
	03/26/14		5.92	22.72
	09/29/14		7.52	21.12
	04/27/15		5.98	22.66
MW-5	12/05/00	25.77	6.25	19.52
	02/28/01		4.95	20.82
	08/22/01		6.69	19.08
	05/22/02		5.50	20.27
	08/29/02		6.54	19.23
	12/02/02		6.37	19.40
	03/04/03		5.41	20.36
	12/18/03		5.65	20.12
	04/13/04		5.37	20.40
	12/02/04		6.03	19.74
	05/27/05		5.46	20.31
	08/24/06		6.17	19.60
	01/13/10		5.72	20.05
	05/03/12		5.52	20.25
	09/18/12	28.56	6.67	21.89
	11/15/12		6.39	22.17
	12/11/13		6.29	22.27
	03/26/14		5.90	22.66
	09/29/14		7.48	21.08
MW-6	12/05/00	24.89	5.68	19.21
	02/28/01		4.35	20.54
	08/22/01		6.15	18.74
	05/22/02		4.91	19.98
	08/29/02		5.96	18.93
	12/02/02		5.70	19.19
	03/04/03		4.69	20.20
	12/18/03		5.05	19.84
	04/13/04		4.87	20.02
	12/02/04		5.42	19.47
	05/27/05		4.75	20.14
	08/24/06		5.57	19.32
	01/13/10		5.17	19.72
	05/03/12		4.82	20.07
	09/18/12	27.70	6.10	21.60
	11/15/12		5.79	21.91
	12/11/13		5.61	22.09
	03/26/14		5.49	22.21
	09/29/14		6.94	20.76
MW-7	12/05/00	25.43	6.43	19.00
	02/28/01		4.76	20.67
	08/22/01		6.95	18.48
	05/22/02		5.55	19.88
	08/29/02		NM	--
	12/02/02		6.43	19.00
	03/04/03		5.10	20.33
	12/18/03		5.65	19.78

TABLE 3
Groundwater Elevation Data
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TOC Elevation[1] (ft amsl)	DTW (ft BTOC)	Groundwater Elevation (ft amsl)
MW-7 cont.	04/13/04		5.27	20.16
	12/02/04		6.15	19.28
	05/27/05		5.12	20.31
	08/24/06		6.28	19.15
	01/13/10		5.97	19.46
	05/04/12		5.20	20.23
	09/18/12	28.22	6.60	21.62
	11/15/12		6.07	22.15
	12/11/13		4.90	23.32
	03/26/14		6.19	22.03
	09/29/14		7.84	20.38

Notes:

DTW = Depth to water
ft amsl = feet above mean sea level
ft BTOC = feet below top of casing
NM = Not measured
TOC = Top of casing
1) Top of casing elevations surveyed by Mid Coast Engineers on September 24, 2012; North American Vertical Datum of 1988, NAVD 88. Previous surveys in May 1996 and December 2000 referenced National Geodetic Vertical Datum, NGVD 29.

TABLE 4
On-Site Soil Sample TPH-G and BTEX Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Boring Location	Sample Depth (ft. bgs)	Soil Type	PID	Date Sampled	TPH-G (µg/kg)	Benzene (µg/kg)	Ethylbenzene (µg/kg)	Toluene (µg/kg)	Total Xylenes (µg/kg)
Soil Vapor Borings									
SV-5	4	silty sand	800	05/22/14	<180	<3.8	<3.8	<3.8	<7.7
	8.5	clay	466	05/22/14	**210,000**	<400	<400	<400	<800
SV-6	4	sandy silt	2	05/21/14	<150	<3.1	<3.1	<3.1	<6.2
	9	clay	7	05/21/14	**1,400**	<4.1	<4.1	<4.1	<8.3
SV-7	5	old fill - sandy silt	0	05/22/14	<230	<4.7	<4.7	<4.7	<9.3
SV-8	5.5	old fill - sandy silt	0	05/22/14	<190	<3.8	<3.8	<3.8	<7.6
	8	clay	602	05/22/14	**1,100,000**	<380	<380	<380	<760
SV-9	4.5	silty clay	0	05/20/14	<170	<3.5	<3.5	<3.5	<7.0
	8	silty clay	597	05/20/14	**920,000**	**1,300**	**14,000**	<440	**2,700**
SV-10	6.5	clay	54	05/19/14	**3,500**	5.5	<3.8	<3.8	<7.6
SV-11	10	clay	189	05/19/14	**95,000**	<470	<470	<470	<950
SV-12	5.5	Fill - silty grvl	0	05/20/14	<180	<3.5	<3.5	<3.5	<7.1
	8.5	clay	701	05/20/14	**180,000**	<440	<440	<440	<890
SV-13	10	clay	466	05/21/14	**540,000**	<380	<380	<380	<750
SV-14	3	sandy silt	175	05/16/14	**2,500,000**	<480	<480	<480	<950
	6	clay	853	05/16/14	**110,000**	<500	<500	<500	<1000
		LTC-Residential		*0 to 5 ft. bgs*	--	*1,900*	*21,000*	--	--
		LTC-Residential		*5 to 10 ft. bgs*	--	*2,800*	*32,000*	--	--
		LTC-Commercial		*0 to 5 ft. bgs*	--	*8,200*	*89,000*	--	--
		LTC-Commercial		*5 to 10 ft. bgs*	--	*12,000*	*134,000*	--	--

Notes and Abbreviations:

mg/kg = micrograms per kilogram
LTC = Low threat closure criteria (California Regrional Water Quality Control Board)
TPH-G = Total Petroleum Hydrocarbons, Gasoline Range
BTEX - Benzene, toluene, ethyl benzene, and xylenes
ND< = Analyte not detected above respective laboratory reporting limit.
Bold indicates detected concentration.
LTC = Low threat closure criteria direct contact and outdoor air exposure (California Regrional Water Quality Control Board)
LTC-Residential = residential scenario
LTC-Commercial = commercial scenario

ft. bgs = feet below ground surface
--- = not established

TABLE 5
On-Site Soil Sample PAH Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Boring Location	Sample Depth (ft. bgs)	Date Sampled	PAH Analysis in µg/kg													
			Naphthalene	BaPe	Anthracene	Benzo(a)anthracene*	Benzo(a)pyrene*	Benzo(b)flouranthene*	Benzo(g,h,i)perylene*	Benzo(k)flouranthene*	Chrysene*	Dibenz(a,h)anthracene*	Fluoranthene	Indeno(1,2,3-cd)pyrene*	Phenanthrene	Pyrene
Soil Vapor Borings																
SV-10	6.5	05/19/14	**28**	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
SV-11	10	05/19/14	**8.3**	--	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9
SV-12	5.5	05/20/14	ND<200	**2.8**	**260**	**1,800**	**1,800**	**2,700**	**1,000**	**1,100**	**2,300**	**280**	**3,800**	**930**	**710**	**3,200**
	8.5	05/20/14	**2,400**	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
LTC- Residential		*0 to 5 ft. bgs*	*9,700*	*63*	--	--	--	--	--	--	--	--	--	--	--	--
LTC- Residential		*5 to 10 ft. bgs*	*9,700*	--	--	--	--	--	--	--	--	--	--	--	--	--
LTC- Comercial		*0 to 5 ft. bgs*	*45,000*	*68*	--	--	--	--	--	--	--	--	--	--	--	--
LTC- Comercial		*5 to 10 ft. bgs*	*45,000*	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes and Abbreviations:

µg/kg = micrograms per kilogram
LTC = Low threat closure criteria (California Regrional Water Quality Control Board)
ft. bgs = feet below ground surface
Bold indicates detected concentration.
PAH: Polyaromatic Hydrocarbons by EPA Method 8270C-SIM
BAPe: Benzo(a)pyrene and equivalents calculated using the NEPM 2013Schedule B(1) benzo(a)pyrene potency equivalency factor for each carcinogenic PAH.
* : PAH used in calculating BaPe
--- = not applcable
ND< = Analyte not detected above respective laboratory reporting limit.

TABLE 6
Off-site Soil Sample TPH-G and BTEX and Naphthalene Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Boring Location	Sample Depth (ft. bgs)	Date Sampled	TPH-G (µg/kg)	Benzene (µg/kg)	Ethylbenzene (µg/kg)	Toluene (µg/kg)	Total Xylenes (µg/kg)	Naphthalene (µg/kg)
Hydropunch Locations								
HP-1	3	05/16/14	<180	<3.5	<3.5	<3.5	<7.1	--
	5.5	05/16/14	<170	<4.2	<4.2	<4.2	<8.5	--
	11	05/16/14	<160	<4.0	<4.0	<4.0	<8.0	--
HP-2	2	05/19/14	<150	<3.0	<3.0	<3.0	<5.9	--
	9	05/19/14	**340,000**	<360	<360	<360	<720	--
	12	05/19/14	**330,000**	<390	**1,200**	<390	<780	--
HP-3	4	05/19/14	<180	<3.7	<3.7	<3.7	<7.4	--
	9	05/19/14	**310,000**	<390	<390	<390	<790	--
	12	05/19/14	**1,100,000**	<360	<360	<360	<710	--
HP-4	4	05/19/14	<200	<4.1	<4.1	<4.1	<8.1	--
	8	05/19/14	<230	<4.6	<4.6	<4.6	<9.2	--
	12	05/19/14	<170	<3.5	<3.5	<3.5	<7.0	--
HP-5	4	05/20/14	<220	<4.4	<4.4	<4.4	<8.8	--
	8	05/20/14	<220	<4.5	<4.5	<4.5	<8.9	--
	12	05/20/14	<180	<3.5	<3.5	<3.5	<7.1	--
HP-6	4	05/20/14	<190	<3.8	<3.8	<3.8	<7.7	--
	8	05/20/14	<170	<3.3	<3.3	<3.3	<6.7	--
	11	05/20/14	<240	<4.8	<4.8	<4.8	<9.5	--
HP-7	4	05/20/14	<220	<4.4	<4.4	<4.4	<8.9	--
	8	05/20/14	<240	<4.8	<4.8	<4.8	<9.6	--
	11	05/20/14	<190	<3.8	<3.8	<3.8	<7.6	--
HP-8	4	05/21/14	<190	<3.8	<3.8	<3.8	<7.7	--
	8	05/21/14	<170	<3.5	<3.5	<3.5	<6.9	--
	11.5	05/21/14	<250	<5.0	<5.0	<5.0	<10	--
HP-9	4	05/21/14	<230	<4.6	<4.6	<4.6	<9.2	--
	8	05/21/14	<200	<3.9	<3.9	<3.9	<7.9	--
	12	05/21/14	<180	<3.6	<3.6	<3.6	<7.2	--
HP-10	4	05/21/14	<190	<3.8	<3.8	<3.8	<7.6	--
	8	05/21/14	<180	<3.5	<3.5	<3.5	<7.0	--
	11.5	05/21/14	<170	<3.4	<3.4	<3.4	<6.8	--
HP-11	3	05/16/14	<210	<4.3	<4.3	<4.3	<8.5	--
	5	05/16/14	**1,000,000**	<370	**470**	<370	<730	--
	12	05/16/14	**2,300,000**	**1,900**	**26,000**	**1,900**	**15,000**	--
HP-12	3	05/16/14	<170	<3.4	<3.4	<3.4	<6.9	--
	8	05/16/14	**190,000**	<390	<390	<390	<790	--
	11	05/16/14	**170,000**	<420	<420	<420	<840	--
HP-13	4	05/19/14	<200	<4.0	<4.0	<4.0	<7.9	--
	8	05/19/14	<280	<5.6	<5.6	<5.6	<11	--
	12	05/19/14	<190	<3.8	<3.8	<3.9	<7.6	--
LTC-Residential	*0 to 5 ft. bgs*		--	*1,900*	*21,000*	--	--	--
LTC-Residential	*5 to 10 ft. bgs*		--	*2,800*	*32,000*	--	--	--
LTC-Commercial	*0 to 5 ft. bgs*		--	*8,200*	*89,000*	--	--	--
LTC-Commercial	*5 to 10 ft. bgs*		--	*12,000*	*134,000*	--	--	--

TABLE 6
Off-site Soil Sample TPH-G and BTEX and Naphthalene Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Boring Location	Sample Depth (ft. bgs)	Date Sampled	TPH-G (µg/kg)	Benzene (µg/kg)	Ethylbenzene (µg/kg)	Toluene (µg/kg)	Total Xylenes (µg/kg)	Naphthalene (µg/kg)
Soil Vapor Locations								
SV-15	4.5	11/13/14	<200	<4.1	<4.1	<4.1	<8.2	<8.2
SV-16	4.5	11/13/14	<190	<3.7	<3.7	<3.7	<7.5	<7.5
SV-17	4.5	11/13/14	<190	<3.8	<3.8	<3.8	<7.6	<7.6
SV-18	4.5	11/13/14	<180	<3.6	<3.6	<3.6	<7.2	<7.2
SV-19	4.5	11/13/14	<170	<3.3	<3.3	<3.3	<6.7	<6.7
LTC-Residential		*0 to 5 ft. bgs*	--	*1,900*	*21,000*	--	--	--
LTC-Residential		*5 to 10 ft. bgs*	--	*2,800*	*32,000*	--	--	--
LTC-Commercial		*0 to 5 ft. bgs*	--	*8,200*	*89,000*	--	--	--
LTC-Commercial		*5 to 10 ft. bgs*	--	*12,000*	*134,000*	--	--	--

Notes and Abbreviations:

µg/kg = micrograms per kilogram
TPH-G = Total Petroleum Hydrocarbons, Gasoline Range
BTEX - Benzene, toluene, ethyl benzene, and xylenes
LTC = Low threat closure criteria direct contact and outdoor air exposure (California Regrional Water Quality Control Board)
LTC-Residential = residential scenario
LTC-Commercial = commercial scenario

Bold indicates detected concentration.
ft. bgs = feet below ground surface
--- = not applcable

TABLE 7
Off-Site Grab Groundwater Sample TPH-G and BTEX Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Boring Location	Sample Depth (ft. bgs)	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)
Hydropunch Locations							
HP-2	12-15	05/19/14	**290,000**	<50	**2,300**	**76**	**240**
HP-3	12-15	05/19/14	**10,000**	**1,400**	**7.4**	**19**	**24**
HP-4	12-15	05/19/14	<50	<0.5	<0.5	<0.5	<1.0
HP-5	12-15	05/20/14	<50	<0.5	<0.5	<0.5	<1.0
HP-6	11-15	05/20/14	<50	<0.5	<0.5	<0.5	<1.0
HP-7	10-15	05/20/14	<50	<0.5	<0.5	<0.5	<1.0
HP-8	12-15	05/21/14	<50	<0.5	<0.5	<0.5	<1.0
HP-9	12-15	05/21/14	<50	<0.5	<0.5	<0.5	<1.0
HP-11	9-15	05/16/14	**180,000**	**710**	**1,700**	**200**	**670**
HP-12	12-15	05/16/14	**6,600**	<5.0	**21**	<5.0	**11**
HP-13	12-15	05/19/14	**58**	<0.5	**0.67**	<0.5	<1.0
HP-14	15-20	10/15/14	<50	<0.5	<0.5	<0.5	<1.0
HP-15	11-15	10/15/14	<50	<0.5	<0.5	<0.5	<1.0
HP-16	12-15	10/15/14	<50	<0.5	<0.5	<0.5	<1.0
LTC - Groundwater			--	*3000*	--	--	--
LTC - Vapor Intrusion			--	*1000*	--	--	--

Notes and Abbreviations:
ft. bgs = feet below ground surface
µg/L = micrograms per liter
TPH-G = Total Petroleum Hydrocarbons, Gasoline Range
LTC = Low threat closure criteria for Commercial/Industrial scenario(California Regrional Water Quality Control Board)
LTC - Groundwater = groundwater media specific criteria
LTC - Vapor Intrusion = petroleum vapor intrusion media specific criteria
Bold indicates detected concentration.
--- = not established

TABLE 8
Soil Vapor Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, California

Sample ID	Sample Date	Tubing Diameter (inches)	Sample Depth (ft. bgs)	Dichlorodifluoromethane (Freon 12)	Acetone	Methylene Chloride	Hexane	2-Butanone (Methyl Ethyl Ketone)	Cyclohexane	Benzene	Heptane	Toluene	Tetracholoro-ethene (PCE)	Chloro-benzene	o-Xylene	Naphthalene	Naphthalene by TO-17 (µg/m³)	Oxygen (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Helium (%)
SV-1	4/4/2011	0.25	3	ND<6.1	**39**	**4.6**	**--**	**28**	ND<4.3	**11**	**--**	**72**	**11**	**110**	**11**	**--**	--	--	--	--	--	ND<0.12
SV-1	5/29/2014	0.25	3	ND<5.8	ND<28	ND<40	ND<4.1	ND<14	ND<4.0	ND<3.7	ND<4.8	ND<4.4	ND<7.9	ND<5.4	MD<5.0	ND<24	**5.2**	9.7	83	7.7	ND<0.00044	ND<0.22
SV-2	4/4/2011	0.25	3	ND<5.5	**29**	ND<3.9	--	**16**	ND<3.8	**12**	--	**84**	**19**	**120**	**11**	--	--	--	--	--	--	ND<0.11
SV-2	5/29/2014	0.25	3	ND<5.9	**40**	ND<41	ND<4.2	ND<14	ND<4.1	ND<3.8	ND<4.9	ND<4.5	**41**	ND<5.5	ND<5.2	ND<25	ND<5.0	10	84	6.1	ND<0.00024	ND<0.12
SV-2	4/28/2015	0.25	3	ND<4.8	ND<9.2	ND<3.4	ND<3.4	ND<	ND<6.1	ND<3.1	ND<4.0	ND<3.6	**30**	ND<4.4	ND<4.2	ND<20	--	8.8	--	5.6	ND<0.19	ND<0.19
SV-3	4/4/2011	0.25	3	**34**	**40**	ND<8.3	--	**130**	**38**	**25**	--	**120**	ND<16	**150**	**19**	--	--	--	--	--	--	ND<0.12
SV-3	5/29/2014	0.25	3	**6.0**	ND<29	ND<42	ND<4.3	ND<14	ND<4.2	ND<3.9	ND<5.0	ND<5.5	ND<8.3	ND<5.6	ND<5.3	ND<26	ND<5.0	14	82	4.5	ND<0.00024	ND<0.12
SV-4	4/4/2011	0.25	3	ND<6.6	**36**	ND<4.6	--	**83**	ND<4.6	**18**	--	**120**	ND<9.0	**150**	**17**	--	--	--	--	--	--	ND<0.13
SV-4	5/29/2014	0.25	3	ND<120	ND<560	ND<810	ND<82	ND<280	ND<80	**64**	ND<96	ND<88	ND<160	ND<110	ND<100	ND<490	ND<5.0	1.3	78	19	1.2	ND<0.22
SV-4	4/28/2015	0.25	3	ND<32	ND<62	ND<23	ND<23	ND<19	ND<22	ND<21	ND<27	ND<25	ND<44	ND<30	ND<28	ND<140	**10**	15	--	2.0	ND<0.22	ND<0.22
SV-5	5/29/2014	0.25	5	ND<5.5	**29**	ND<39	ND<3.9	ND<13	ND<3.8	ND<3.6	ND<4.6	ND<4.2	ND<7.6	ND<5.1	ND<4.8	ND<23	ND<5.0	10	79	9.6	0.001	0.92
SV-6	5/29/2014	0.25	5	ND<5.7	ND<27	ND<40	ND<4.0	ND<14	ND<7.2	ND<3.7	ND<4.7	ND<4.3	ND<7.8	ND<5.3	ND<5.0	ND<24	ND<5.0	3.3	87	10	0.00031	ND<0.12
SV-7	5/29/2014	0.25	5	ND<1100	ND<2100	ND<7500	**9,100**	ND<2500	**6,400**	ND<690	**9,400**	**1,400**	ND<1400	ND<990	ND<930	ND<4500	ND<5.0	5.9	84	10	0.017	ND<0.11
SV-7	4/28/2015	0.25	5	ND<5.2	ND<10	ND<3.7	ND<3.7	ND<3.1	ND<3.6	ND<3.4	ND<4.3	ND<4.0	ND<7.2	ND<4.9	ND<4.6	ND<22	**180**	7.1	--	8.5	ND<0.21	ND<0.21
SV-8	5/29/2014	0.25	5	ND<5.5	ND<27	ND<39	**26**	ND<13	**34**	ND<3.6	**18**	ND<4.2	ND<7.6	ND<5.2	ND<4.9	ND<23	ND<5.0	8.1	83	8.8	0.0008	0.13
SV-9	5/29/2014	0.25	5	**14**	**34**	ND<37	ND<3.8	**13**	ND<3.7	ND<3.4	ND<4.4	ND<4.0	ND<7.2	ND<8.2	ND<4.6	ND<22	ND<5.0	6.4	84	9.0	0.0016	ND<0.11
SV-10	5/29/2014	0.25	5	ND<2200	ND<11000	ND<16000	**20,000**	ND<5300	**11,000**	ND<1400	**8,000**	**1,700**	ND<3000	ND<2100	ND<1900	ND<9400	ND<5.0	1.4	83	15	0.52	ND<0.11
SV-10	4/28/2015	0.25	5	ND<520	ND<1000	ND<360	**28,000**	ND<310	ND<360	**1,100**	**14,000**	ND<400	**820**	ND<480	ND<460	ND<2200	**7.9**	1.1	--	13	1.0	ND<0.21
SV-11	5/29/2014	0.25	5	**6.0**	ND<27	ND<40	**6.1**	ND<13	**10**	**15**	ND<4.7	**4.6**	**160**	ND<5.2	ND<5.0	ND<24	ND<5.0	9.8	88	1.9	ND<0.00023	ND<0.11
SV-12	5/29/2014	0.25	5	**21**	ND<27	ND<40	**60**	ND<13	**53**	**4.5**	**28**	ND<4.3	**9.4**	ND<5.2	ND<5.0	ND<24	ND<5.0	9.6	84	6.5	0.0026	ND<0.11
SV-13	5/29/2014	0.25	5	**14**	**40**	ND<39	ND<4.0	**15**	ND<3.9	ND<3.6	ND<4.6	ND<4.2	ND<7.6	ND<5.2	ND<4.9	ND<24	ND<5.0	7.3	84	8.3	ND<0.00022	ND<0.11
SV-13	4/28/2015	0.25	5	**11**	ND<9.6	ND<3.5	ND<3.6	ND<3.0	ND<3.5	ND<3.2	ND<4.2	ND<3.8	ND<6.9	ND<4.7	ND<4.4	ND<21	--	5.0	--	7.7	ND<0.20	ND<0.20
SV-14	5/29/2014	0.25	5	ND<570	ND<2700	ND<4000	**29,000**	ND<1400	**6,900**	**400**	**18,000**	**820**	ND<780	ND<530	ND<500	ND<2400	**15**	10	83	6.6	0.56	ND<0.12
SV-14	4/28/2015	0.25	5	ND<620	ND<1200	ND<430	**15,000**	ND<370	ND<430	ND<400	**9,200**	ND<470	ND<850	ND<570	ND<540	ND<2600	ND<5.0	1.2	--	10	0.55	ND<0.21
SV-15	4/28/2015	0.25	5	ND<4.8	ND<9.2	ND<3.4	ND<3.4	ND<2.9	ND<3.3	ND<3.1	ND<4.0	ND<3.7	ND<6.6	ND<54.5	ND<4.2	ND<20	ND<5.0	15	--	1.8	ND<0.19	ND<0.19
SV-16	1/6/2015	0.25	5	ND<4.7	**26**	ND<33	ND<3.4	ND<11	ND<3.3	ND<3.1	ND<3.9	ND<3.6	ND<6.5	ND<4.4	ND<4.2	ND<20	ND<5.0	--	--	--	--	ND<0.12
SV-16	4/28/2015	0.25	5	ND<5.0	ND<9.6	ND<3.5	ND<3.6	ND<3.0	ND<3.5	ND<3.2	ND<4.2	ND<3.8	ND<6.9	ND<4.7	ND<4.4	ND<21	--	12	--	5.9	ND<0.20	ND<0.20
LTC - Residential				---	---	---	---	---	---	*85*	---	---	*210**	---	---	*93*	*93*	---	---	---	---	---
LTC- Industrial				---	---	---	---	---	---	*280*	---	---	*2,100**	---	---	*310*	*310*	---	---	---	---	---

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TABLE 8
Soil Vapor Analytical Results
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, California

Sample ID	Sample Date	Tubing Diameter (inches)	Sample Depth (ft. bgs)	Dichlorodifluoromethane (Freon 12)	Acetone	Methylene Chloride	Hexane	2-Butanone (Methyl Ethyl Ketone)	Cyclohexane	Benzene	Heptane	Toluene	Tetracholoro-ethene (PCE)	Chloro-benzene	o-Xylene	Naphthalene	Naphthalene by TO-17 (µg/m^3)	Oxygen (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Helium (%)
SV-17	1/6/2015	0.25	5	ND<5.7	ND<27	ND<40	ND<4.0	ND<14	ND<3.9	ND<3.6	ND<4.7	ND<4.3	ND<7.8	ND<5.3	ND<5.0	ND<24	ND<5.0	--	--	--	--	ND<0.12
SV-18 S	1/6/2015	0.25	5	ND<5.4	ND<26	ND<38	**9.8**	ND<13	**13**	ND<3.5	**8.8**	ND<4.1	ND<7.4	ND<5.0	ND<4.8	ND<23	ND<5.0	--	--	--	--	ND<0.12
SV-18 S	4/28/2015	0.25	5	ND<36	ND<69	ND<25	**1,300**	ND<21	**550**	ND<23	**350**	ND<27	ND<49	ND<33	ND<31	ND<150		12	--	6.4	ND<0.24	ND<0.24
SV-19	1/6/2015	0.25	5	ND<5.5	ND<26	ND<39	ND<3.9	ND<13	ND<3.8	ND<3.6	ND<4.6	ND<4.2	ND<7.6	ND<5.1	ND<4.8	ND<23	ND<5.0	--	--	--	--	ND<0.12
SV-19	4/28/2015	0.25	5	ND<5.3	ND<10	ND<3.8	ND<3.8	ND<3.2	ND<3.7	ND<3.5	ND<4.4	ND<4.1	ND<7.3	ND<5.0	ND<4.7	ND<23	--	9.0	--	7.9	ND<0.22	ND<0.22
LTC - Residential				---	---	---	---	---	---	*85*	---	---	*210**	---	---	*93*	*93*	---	---	---	---	---
LTC- Industrial				---	---	---	---	---	---	*280*	---	---	*2,100**	---	---	*310*	*310*	---	---	---	---	---

Notes and Abbreviations:

Only detected analytes are included
ft. bgs = feet below ground surface
µg/m3 =micrograms per cubic meter
% = percent
Bold indicates detected concentration.
LTC = Low threat closure criteria - Appendix 4, Scenario 4 - Direct Measurement of Soil Gas Concentrations (Soil Gas Sampling - No Bioattenuation Zone)
LTC-Residential = residential scenario
LTC-Commercial = commercial scenario
* = San Francisco Bay Regional Water Quality Control Board 2013 Tier 1 Environmental Screening Level (ESL) for groundwater water which is a current or potential drinking water resource.

APPENDIX A
SUMMARY OF PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS

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APPENDIX A
Summary of Previous Site Investigations and Remedial Actions

The following presents background information regarding the Site geology and hydrogeology, historic Site investigations, and previously completed remedial actions.

A-1 GEOLOGY AND HYDROGEOLOGY

The Site geology was initially characterized as part of SECOR's *Limited Subsurface Investigation Report and Work Plan for Additional Soil and Groundwater Assessment* dated February 19, 2003 (SECOR, 2003a). Further evaluation was completed based on information obtained from soil borings advanced during remedial actions. The following discusses the Site geology and hydrogeology.

A-1.1 GEOLOGY

Figure A-1 shows the historical well and soil boring locations at the Site. Subsurface materials at the Site generally consist of fine-grained soils (silt and clay) with minor amounts of sand. Based on the classification of materials encountered in the soil borings, Stantec has divided the geology beneath the Site into three zones, designated as 'A', 'B' and 'C' from shallowest to deepest. The subsurface geology is illustrated on geologic cross-section A – A' and geologic cross-section B – B', included as **Figures A-2 and A-3**, respectively. The predominant clay layer present at most boring locations in the depth interval of approximately five (5) to 12 feet below ground surface (bgs) acts as a semi-confining layer for the underlying groundwater.

A-1.2 GROUNDWATER FLOW

The groundwater monitoring network at the Site includes seven monitoring wells (MW-1 through 7) installed to 15 feet below ground surface (bgs) within the A-zone on-site. Groundwater monitoring has occurred at the Site using wells MW-1 through MW-3 since 1996, and also using wells MW-4 through MW-7 since 2000. A-zone groundwater generally occurs from 5 to 7 feet bgs on-site. A potentiometric surface map for the A-zone illustrating the interpreted groundwater surface elevation and flow direction on September 29, 2014, is presented as **Figure A-4**. The A-zone hydraulic gradient across the Site was approximately 0.003 feet per foot toward the southwest which is consistent with the historical west-southwest groundwater flow pattern for the Site.

A-2 HISTORIC SITE CONDITIONS

Data obtained in 1995 during the UST system removal indicated that there were three areas of concern (AOC): the former UST pit, the grease sump, and the former system piping and fuel dispenser. Soil excavation activities were conducted in the vicinity of the AOCs and three groundwater monitor wells (MW-1, MW-2, and MW-3) were installed to evaluate the degree to which the groundwater had been impacted.

A-2.1 SOIL

Several soil samples have been collected for Site investigation purposes and during well installations prior to remedial activities at the Site. **Table A-1** and **Figure A-5** summarize the historical laboratory analytical data for soil that are representative of pre-remediation conditions at the Site. **Figure A-5** also shows the approximate extent of the excavations of soil with residual impacts from the underground fuel systems equipment.

Confirmation soil samples were collected from the sidewalls and floor of the excavation in the area of the former UST indicated that up to 510 milligrams per kilogram (mg/kg) TPH as motor oil (TPHmo), up to 12 mg/kg TPH as diesel (TPHd) and up to 1.6 mg/kg TPH as gasoline (TPHg) remained in soil in this area. The TPHmo concentrations were flagged by the laboratory as not matching the motor oil standard, and as being representative of heavier-range petroleum hydrocarbons. Review of the chromatograms by laboratory personnel suggested that the concentrations reported for TPHmo were likely attributable to asphalt fragments present in the soil samples.

Soil around the former grease sump was excavated to approximately nine feet bgs. Confirmation samples indicated that up to 74 mg/kg TPHmo, up to 49 mg/kg TPHd, and up to 7.4 mg/kg TPHg remained in soil on the sidewalls of the excavation.

Soil in the vicinity of the former product line system and pump island was excavated to approximately seven feet bgs. Confirmation sample results indicate that up to 1,300 mg/kg TPHg, up to 830 mg/kg TPH as kerosene (TPHk), and up to 160 mg/kg TPHd remained in soil along the southern sidewall of the excavation. Excavation in this area was limited by the presence of a natural gas line along the southeastern edge of the property.

In January 2003, six additional soil borings were advanced on-Site as part of a limited subsurface soil investigation. The investigation results indicated that the majority of remaining residual hydrocarbons were present within and adjacent to the former gasoline UST and pump island excavation. The hydrocarbons were present primarily in silty clay from approximately 8-to -13.5 feet bgs. Maximum concentrations of TPHd, TPHg, and benzene detected in the 2003 investigation were 1,700 mg/kg, 1,400 mg/kg, and 3.4 mg/kg, respectively (**Table A-1**).

A-2.2 GROUNDWATER

The data from the seven groundwater monitoring wells installed prior to 2001 indicated that three of the seven wells were impacted with elevated levels of petroleum hydrocarbons. The impacted wells were MW-2, MW-3 and MW-4 and from a cluster centered at the southwest corner of the Site. Specifically, TPHg was present in MW-2 at 800 micrograms per liter (µg/L); in MW-3 at 5,400 µg/L; and in MW-4 at 3,900 µg/L. Benzene was present in these same wells and ranged from 75 µg/L in MW-2 to 790 µg/L in MW-3.

Up-gradient well MW-1 and off-site wells to the west (MW-6 and MW-7) and south (MW-5) typically did not present detectable levels of petroleum hydrocarbons, with exception of MW-7, which reported low concentrations of total xylenes (up to 6.7 micrograms per liter [µg/L]) in the first two sampling events (December 2000 and February 2001). MW-7 has since been non-detect for all petroleum hydrocarbon-related constituents.

In June 1999, a utility trench survey was conducted around the Site, and a passive soil vapor survey was performed down-gradient from the Site. The results of the utility trench and passive soil vapor surveys are documented in SECOR's document entitled, "*Third Quarter Groundwater Monitoring Results and Plume Definition Investigation Report*", dated October 22, 1999 (3Q99 GWM Report, **SECOR, 1999**).

In January 2003, SECOR performed an additional limited subsurface investigation as described in the document entitled *Remedial Action Work Plan*" dated October 25, 2002 (**SECOR, 2002**). The Work Plan was approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated October 28, 2002. Based on field observations, soil boring logs, and laboratory analytical results, SECOR concluded that: 1) perched groundwater was encountered within fill materials at approximately 5 to 8 feet bgs; 2) water-bearing zones were encountered in silt and sand at depths of 13- to -15 feet bgs (A zone), in sand from 16-to -19 feet bgs (B zone), and in silty sand at 22.5 feet bgs (C zone); and 3) soil sample analytical results suggest that the majority of chemical impact exists in silty clay from approximately 8-to -13.5 feet bgs within and adjacent to the former gasoline UST and pump island excavation. The findings of the investigation were presented in the document entitled *Limited Subsurface Investigation Report and Work Plan for Additional Soil and Groundwater Assessment* dated February 19, 2003 (SECOR, 2003a).

At the request of ACHCSA, a sensitive receptor survey was performed for the Site. The survey consisted of identifying the locations and depths of subsurface utilities near the Site and reviewing data provided by the California Department of Water Resources (DWR) for potential groundwater production wells. The survey results are presented in SECOR's document entitled, "*Sensitive Receptor Survey and Conduit Study,*" dated June 30, 2003 (Receptor Study; **SECOR, 2003b**). The report indicates that no groundwater production wells are likely to be affected by hydrocarbons in the soil and groundwater at the Site.

A-2.3 SOIL GAS

A passive soil gas survey consisting of Gore-Sorber™ sorbent screening modules collected at 13 discrete locations down-gradient of the Site was conducted in July 1999. The sorbent modules were intended as a screening tool for potential off-site contamination in soil and groundwater. The survey was used primarily as a tool to assist in the location of off-Site monitoring wells (MW-5 though –7). Because of access limitations to the west and south of the Site, soil gas sampling locations were limited to public right-of-way along Paseo Larga Vista, Paseo Grande, and Via Del Sol (see Figure 1).

Data from the screening modules does not quantify concentrations of detected constituents. The absence of TPHg and BTEX constituents in down-gradient monitoring wells MW-5 through MW-7 confirms the absence of hydrocarbons in groundwater at these off-Site locations.

A-3 REMEDIAL ACTIONS

The following presents remedial actions completed at the Site to address hydrocarbons in soil and groundwater.

A-3.1 SOIL EXCAVATION

In June 1995, SECOR conducted initial remedial activities at the Site which included removal of the former UST system piping and the former grease sump. This work was summarized in SECOR's *Preliminary Characterization Report* dated June 29, 1995 (**SECOR, 1995**). SECOR subsequently conducted excavation activities in these two areas. The extent of excavation in these areas is shown on **Figure A-1**. The soil excavated from the former sump area was transported off-site for disposal. The soil generated from the UST excavation was treated by means of aeration and later transported off-site for disposal. The remedial activities are reported in the report entitled *Report of Interim Remedial Actions* (RIRA; **SECOR, 1996**) dated June 4, 1996.

A-3.2 CHEMICAL INJECTION

The October 2002 *Remedial Action Work Plan* (RAW) proposed nitrate injections to stimulate biological degradation of hydrocarbons in the groundwater near the down-gradient property line (i.e., along Paseo Larga Vista). Based on the Site data collected in January 2003 as discussed above, additional remediation was recommended in the area of the former UST (i.e., near MW-3). An addendum to the RAW was submitted by SECOR in December 2003 proposing hydrogen peroxide injections for in-situ chemical oxidation in the area of the former UST. The RAW addendum was approved by ACHCSA in a letter to Bohannon dated December 15, 2003.

In May 2004, EFI Global began the pilot groundwater remediation program. Four wells were installed on-site for the purposes of injecting nitrate solution into groundwater up-gradient of well MW-4 (NIW-A1, NIW-A2, NIW-B1, and NIW-B2). Eight wells were installed on-site for injection of peroxide solution into soil and groundwater up-gradient of well MW-3 (PIW-A1 to PIW-A4 and PIW-B1 to PIW-B4). Four wells were installed to observe the effects of the injection program (NOBS-B1, POBS-A1, POBS-B1, and POBS-B2). Injection and observation well installations were completed during May 2004 in accordance with the approved RAW, and initial chemical injections were completed during May/June 2004. The well installation activities were described in the document entitled *Semi-Annual (First Half 2004) Groundwater Monitoring and Pilot Remedial Progress Report* prepared by EFI Global **(EFI Global, 2004b**).

Additional injections were completed in July 2004 (Phase Two) and October 2004 (Phase Three). Progress groundwater sampling for Phases Two and Three was conducted in August 2004 and December 2004, respectively.

A-3.3 DUAL-PHASE EXTRACTION

Following Phase Three injections and progress groundwater sampling, EFI Global conducted a single-day dual-phase extraction (DPE) pilot test (February 2005) in the area of the former gasoline UST. A five-day DPE test was subsequently conducted in April 2005. Based upon these results and in review of the progress groundwater sampling data, it was determined that DPE should be completed at the Site in lieu of the remedial activities previously proposed in the RAW.

In June 2005, SECOR advanced 14 soil borings at locations intended to provide additional delineation of the target area for full-scale DPE system implementation. SECOR obtained an operation permit from the BAAQMD in July 2005 and installed seven (7) additional remediation wells in September 2005. SECOR conducted additional Site-wide groundwater monitoring during August 2006. The results of the five-day DPE test (April 2005) and subsequent groundwater monitoring activities are presented in the *Groundwater Monitoring and Remediation Progress Report* dated April 23, 2007 (**SECOR, 2007)**.

During December 2008, additional DPE system infrastructure was added and full-scale DPE system operation commenced during January/February 2009. Full-scale DPE operations consisted of soil vapor and groundwater extraction and treatment from eleven (11) Site extraction wells and former chemical injection wells. Full-scale DPE operated through December 2009 at which point remedial progress groundwater monitoring was conducted during January 2010. DPE system operations and results of remedial progress groundwater monitoring are described in the *Report of Dual-Phase Extraction System Operations, Soil Vapor Sampling, and Risk Analysis* (DPE Report; Stantec, 2011).

The results of groundwater monitoring and DPE system performance data indicated that the DPE system significantly reduced concentrations of total petroleum hydrocarbons in groundwater (see discussion below). DPE system treatment equipment was removed from the Site in December 2009. Wells used for extraction and aboveground conveyance piping remain.

A-4 POST-REMEDIATION SITE CONDITIONS

The following presents post-remediation Site conditions based upon soil and soil vapor data collected prior to 2014. Soil data post-DPE operations were not collected. Groundwater and soil vapor data collected during 2014 and 2015 (i.e., recent investigations) are discussed in the main body of the report. Hydrocarbon concentration trends in groundwater monitoring wells are provided in **Appendix B**.

A-4.1 GROUNDWATER

Groundwater remedial progress monitoring was conducted in January 2010 to determine the effectiveness of the DPE system at decreasing TPHg and BTEX concentrations in on- and off-Site monitoring wells. Laboratory analytical results for monitoring wells are presented in **Table 2**. In summary:

- Concentrations of petroleum hydrocarbon constituents in on-Site well MW-1 were predominantly below LRLs and off-Site/ down-gradient monitoring wells MW-5, MW-6, and MW-7 continued to be below LRLs.
- Sample analytical results from on-Site monitoring well MW-2 indicated that between August 2006 and January 2010 the concentrations of TPHg had decreased from 1,400 to 130 µg/L and benzene had decreased from 90 to 1.2 µg/L. Toluene, ethylbenzene, and xylenes were not detected above the LRLs during the January 2010 at well MW-2.
- Sample analytical results for off-Site monitoring well MW-4 showed similar decreases in concentration between August 2006 and January 2010. The TPHg concentration decreased from 2,400 to 400 µg/L and the benzene concentration decreased from 59 to 1.6 µg/L.
- The concentrations of petroleum hydrocarbons in 2010 at monitoring well MW-3 were below laboratory LRLs with the exception of benzene which was detected at a concentration of 2 µg/L.

At the request of ACHCSA Stantec performed additional groundwater monitoring during the second and third quarters of 2012. The monitoring results for the second quarter of 2012 are presented in the *Second Quarter 2012 (Semi-Annual) Groundwater Monitoring Report*" (2Q12 GWM Report), dated July 27, 2012. The results indicated:

- Concentrations of petroleum hydrocarbons down-gradient of the Site in monitoring wells MW-5, MW-6, and MW-7 remain below laboratory MRLs;
- Concentrations in on-site monitoring wells MW-1 and MW-2 remain stable or near the laboratory MRLs;
- Significant decreases in petroleum hydrocarbon concentrations were observed MW-3 located immediately down-gradient of the former UST excavation area; and,
- Hydrocarbon concentrations at off-Site well MW-4 remained consistent with historic and post-remediation data, with a less prominent decrease compared to wells MW-2 and MW-3.

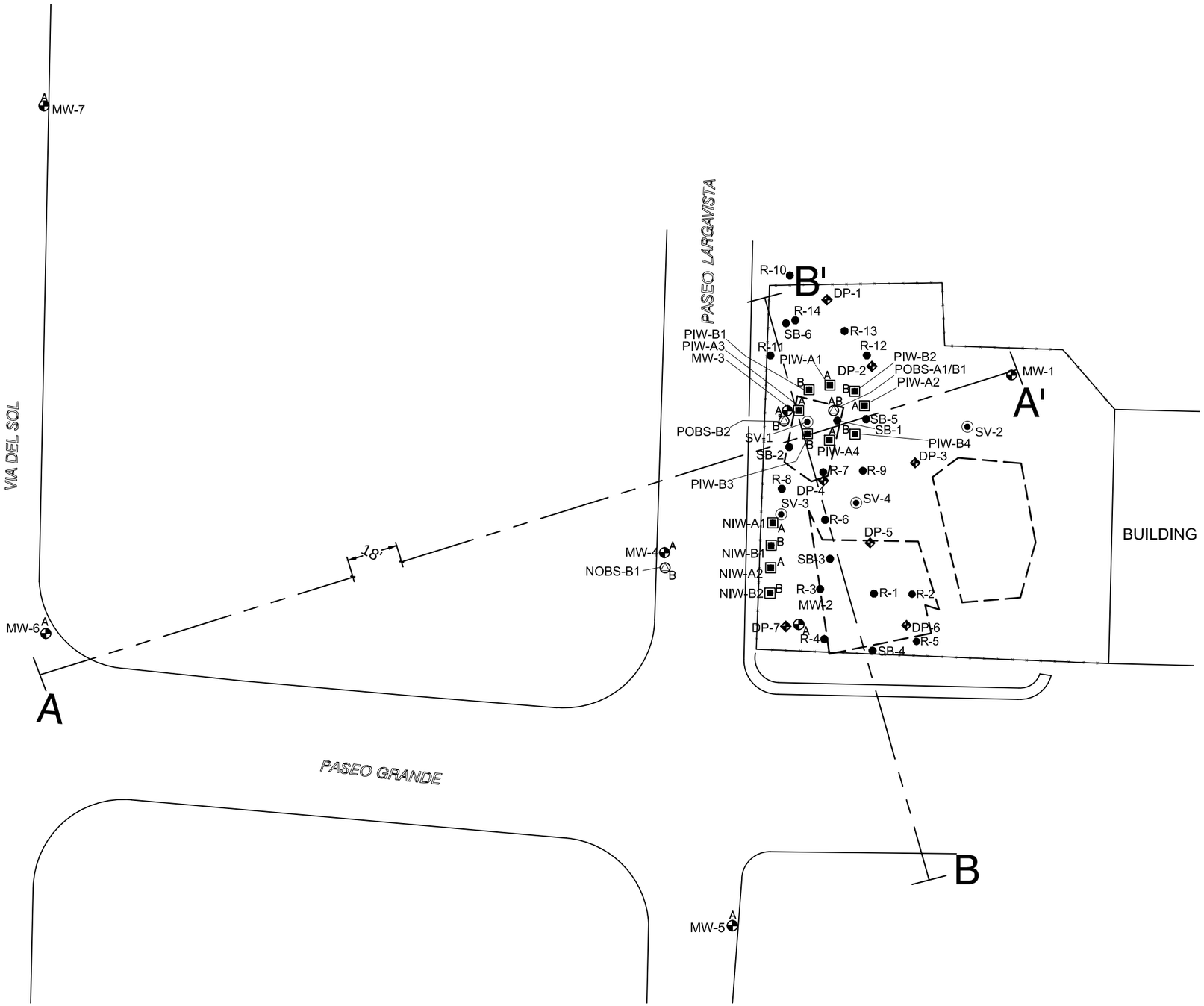
A-4.2 SOIL VAPOR

Soil vapor well installation and subsequent soil vapor sampling was conducted at four locations on-site during March and April 2011. The locations of the shallow vapor samples are included on **Figure 2**. Vapor sample location SV-1 is located within the former UST excavation extents. Vapor sample SV-4 is located approximately within or adjacent to the former product line where preliminary soil characterization samples indicated the highest identified TPH concentrations on-

site (SECOR, 1995). The following VOCs were detected and the reported ranges of concentrations were:

- Ethanol (3 locations; 30 micrograms per cubic meter [µg/m3] to 53 µg/m3@ SV-4)
- Freon 12 (1 location; 34 µg/m3 @ SV-3);
- Acetone (4 locations; 29 µg/m3 to 40 µg/m3 @ SV-3);
- Methylene chloride (1 location; 4.6 µg/m3 @ SV-1);
- 2-Butanone (4 locations; 16 µg/m3 to 130 µg/m3 @ SV-3);
- Cyclohexane (1 location; 38 µg/m3 @ SV-3);
- 2,2,4-Trimethylpentane (1 location; 860 µg/m3 @ SV-3);
- Benzene (4 locations; 11 µg/m3 to 25 µg/m3 @ SV-3);
- Toluene (4 locations; 72 µg/m3 to 120 µg/m3 @ SV-3 and SV-4);
- Tetrachloroethene (PCE) (2 locations; 11 µg/m3 @ SV-1 and 19 µg/m3 @ SV-2);
- Chlorobenzene (4 locations; 110 µg/m3 to 150 µg/m3 @ SV-3 and SV-4); and,
- o-Xylene (4 locations; 11 µg/m3 to 19 µg/m3 @ SV-3).

A Site-specific vapor intrusion risk analysis was performed using the Johnson & Ettinger (J&E) model and the concentrations of all chemicals detected in soil vapor at the Site were inputted into the model. A detailed description of soil vapor sampling and results of the risk analysis are included in the DPE Report (**Stantec, 2011**).

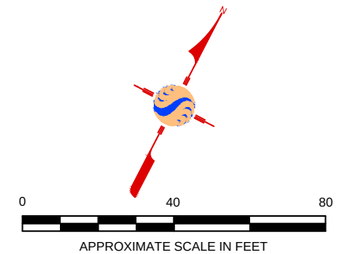


LEGEND

MW-1	MONITORING WELL
PIW-B3	INJECTION WELL
DP-1	DUAL-PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
NOBS-B1	OBSERVATION WELL
SV-1	SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
SB-1	SOIL BORING - BY SECOR (ABANDONED 2003)
R-1	SOIL BORING - BY SECOR (ABANDONED JULY 2005)
A — A'	CROSS-SECTION LINE LOCATION
	FORMER EXCAVATION BOUNDARIES
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE



APPROXIMATE SCALE IN FEET

Stantec
57 Lafayette Circle, 2nd Floor
Lafayette, CA 94549
(925) 299-9300/299-9302 (Fax)

FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE: **A-1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR	JMA	CRM	12/12/12

FILEPATH:M:\BOHANNON\2012 SCM\BOH-F3-F10-2012-RRR.dwg|malbrecht|Dec 12, 2012 at 17:12|Layout: FIGURE-3

A (NE)

A' (NE)

ELEVATION IN FEET ABOVE MEAN SEA LEVEL

35
30
25
20
15
10
5
0
-5

MW-6 (ELEV. 27.99)

MW-4 (ELEV. 28.94)
(PROJECT 25' NW)

INTERSECTION OF
CROSS-SECTION B-B'

SB-2
PIW-B3
PIW-A4
SB-1
PIW-B4
SB-5
PIW-A2

MW-1 (ELEV. 29.95)

SC/SP
SC
CL
SC
CL
SC
CL
CL
FILL
SM/SP
CL
ML
SP
CL
ML
SP
ML
CL
ML
SP
ML
CL
SM
CL
SP

TD=15
TD=15
TD=20
TD=20.5
TD=23
TD=15.5
TD=26
TD=26

A ZONE
B ZONE
C ZONE

VERTICAL SCALE
5
0

APPROXIMATE HORIZONTAL SCALE
25
0

LEGEND

- ARTIFICIAL FILL
- ML - SANDY SILT WITH CLAY
- SC - CLAYEY SAND
- SM/SP - SILTY CLAY / SILTY SAND
- CL - INTERBEDDED, SILT CLAY AND FINE SAND/SILT
- SP - FINE SAND WITH GRAVEL
- TYPICAL WATER LEVEL
- SB-6 — SOIL BORING/WELL IDENTIFICATION
- SOIL BORING/WELL LOCATION
- SCREENED INTERVAL FOR MONITORING/REMEDIATION WELLS
- APPROXIMATE FORMER EXCAVATION EXTENTS

ABBREVIATIONS

TPHg - Total Petroleum Hydrocarbons as Gasoline
mg/kg - Milligrams per Kilogram

Stantec
57 Lafayette Circle, 2nd Floor
Lafayette, CA 94549
(925) 299-9300/299-9302 (Fax)

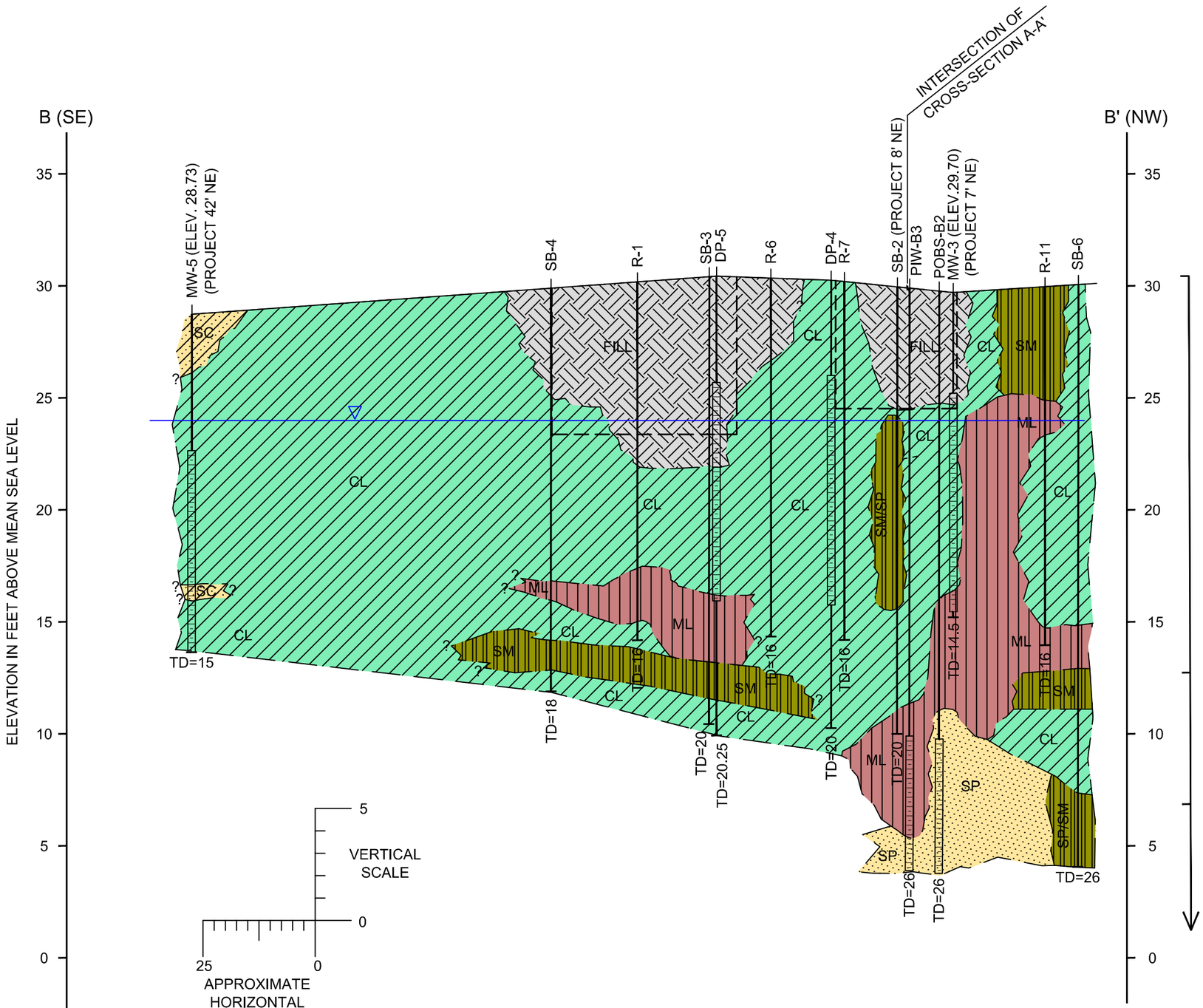
FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

GEOLOGIC CROSS-SECTION A-A'

FIGURE: **A-2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR	JMA	CRM	12/10/12

FILEPATH:M:\BOHANNON\2012 SCM\BOH-F3-F10-2012-RRR.dwg|malbrecht|Dec 12, 2012 at 17:13|Layout: FIGURE-4



LEGEND

- ARTIFICIAL FILL
- ML - SANDY SILT WITH CLAY
- SC - CLAYEY SAND
- SM/SP - SILTY CLAY / SILTY SAND
- CL - INTERBEDDED, SILT CLAY AND FINE SAND/SILT
- SP - FINE SAND WITH GRAVEL
- TYPICAL WATER LEVEL
- SB-6 — SOIL BORING/WELL IDENTIFICATION
- SOIL BORING/WELL LOCATION
- SCREENED INTERVAL FOR MONITORING/REMEDIATION WELLS
- APPROXIMATE FORMER EXCAVATION EXTENTS

ABBREVIATIONS

TPHg - Total Petroleum Hydrocarbons as Gasoline
mg/kg - Milligrams per Kilogram

Stantec
57 Lafayette Circle, 2nd Floor
Lafayette, CA 94549
(925) 299-9300/299-9302 (Fax)

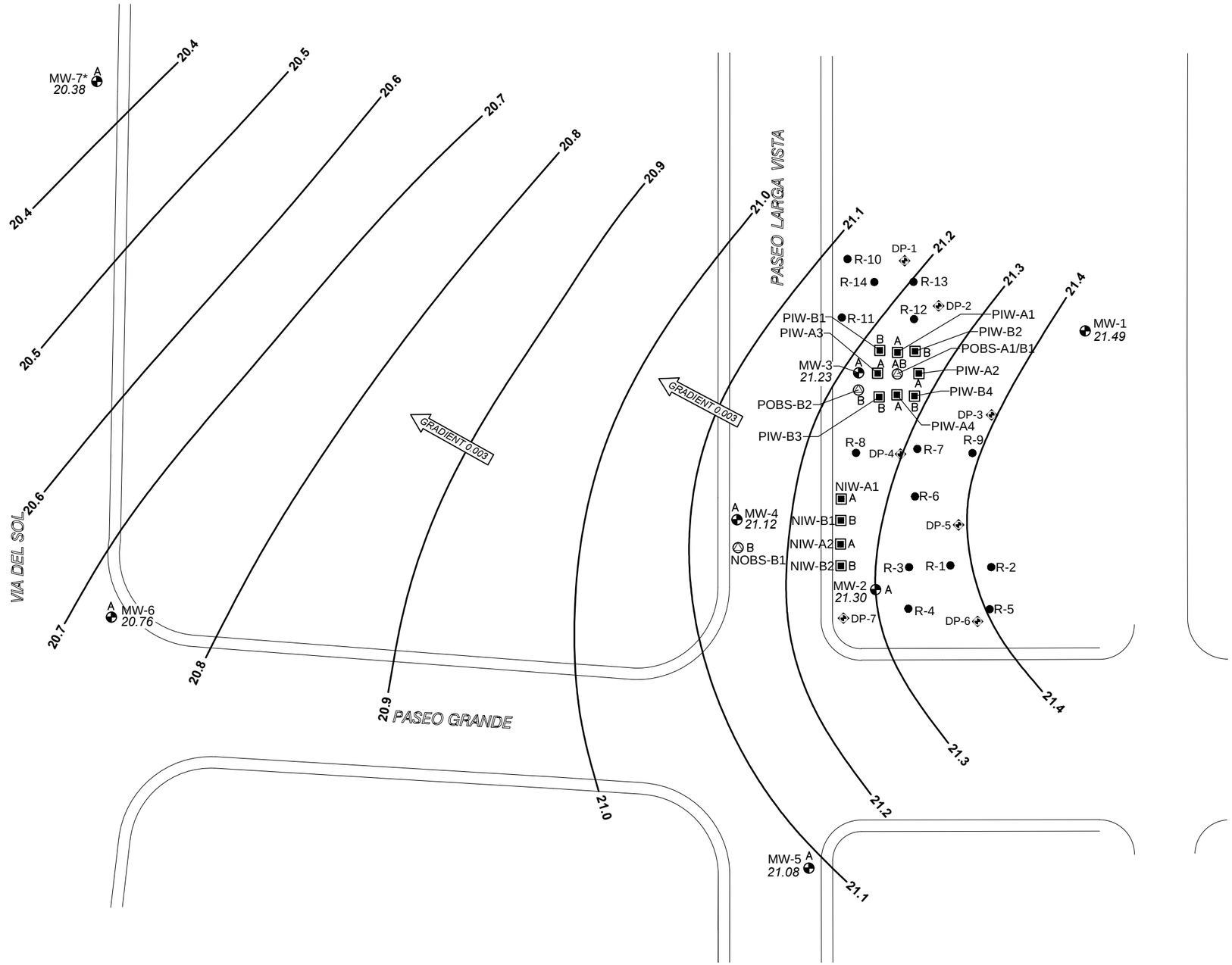
FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

GEOLOGIC CROSS-SECTION B-B'

FIGURE: **A-3**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	RRR	JMA	CRM	12/10/12

FILEPATH:M:\BOHANNON\2012 SCM\BOH-F3-F10-2012-RRR.dwg|malbrecht|Dec 12, 2012 at 17:15|Layout: FIGURE-5



LEGEND

MW-6	MONITORING WELL
PIW-B3	INJECTION WELL
DP-1	DUAL PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
NOBS-B1	OBSERVATION WELL
R-1	SOIL BORING - BY SECOR (ABANDONED JULY, 2005)
21.0	GROUNDWATER SURFACE ELEVATION CONTOUR (DASHED WHERE INFFERED)
21.49	GROUNDWATER ELEVATION (FEET ABOVE MSL)
0.003 Ft/Ft	HYDRAULIC GRADIENT

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

NOTES

1) AN ASTERISK (*) INDICATES THAT THE GROUNDWATER ELEVATION IS INCONSISTENT WITH THE TRENDS FOR THE SITE AND WAS NOT USED FOR CONTOURING.

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION

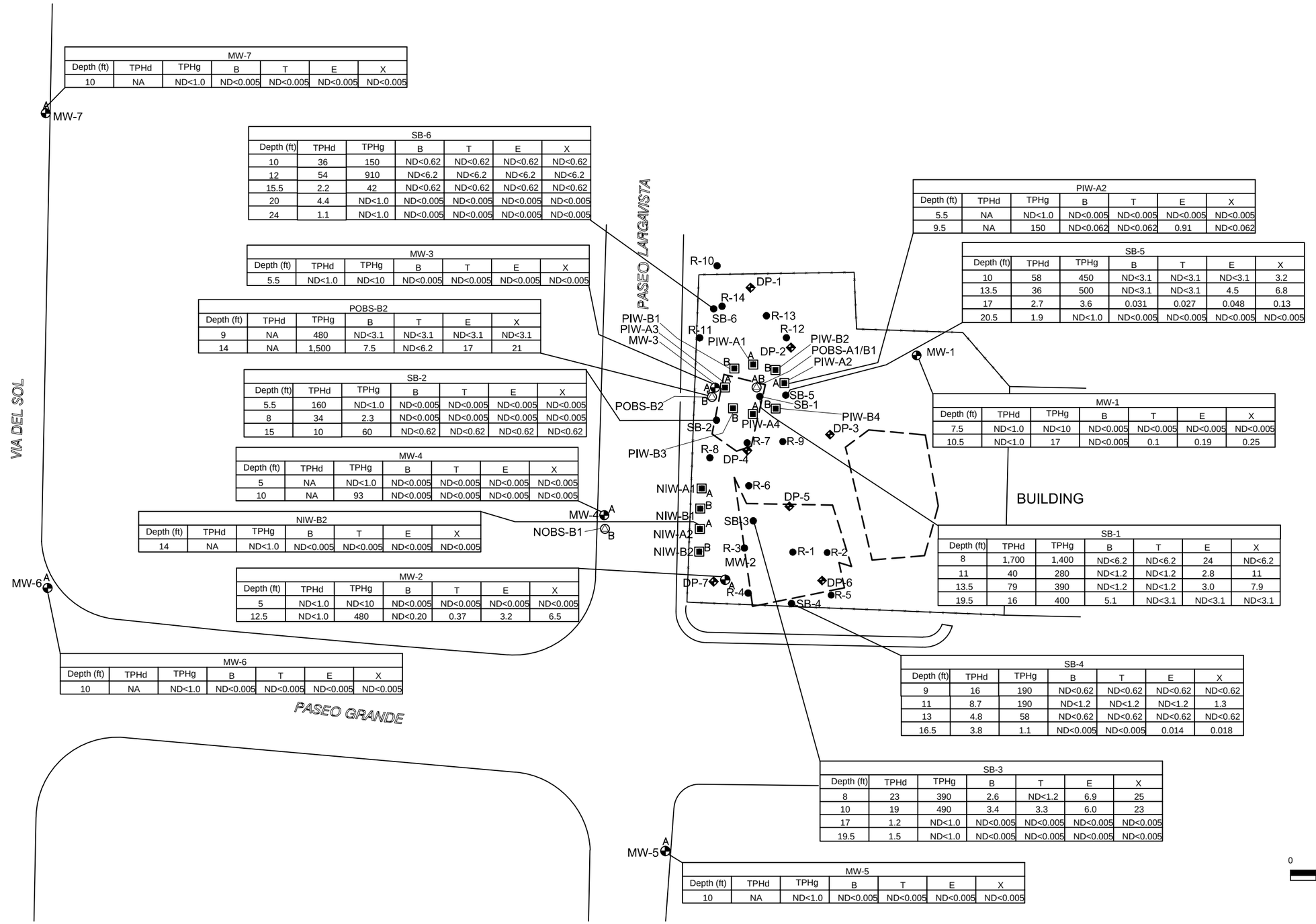
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

GROUNDWATER POTENTIOMETRIC SURFACE MAP SEPTEMBER 29, 2014

FIGURE:
A-4

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702934.200.0001	JMA/STA	EH	CRM	10/30/14

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2014\3Q 2014\FIG 3_BOHANNON - 575 Paseo_GW_Data.dwg|saguinaldo|Oct 30, 2014 at 15:36|Layout: 11X17 L



MW-7						
Depth (ft)	TPHd	TPHg	B	T	E	X
10	NA	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

SB-6						
Depth (ft)	TPHd	TPHg	B	T	E	X
10	36	150	ND<0.62	ND<0.62	ND<0.62	ND<0.62
12	54	910	ND<6.2	ND<6.2	ND<6.2	ND<6.2
15.5	2.2	42	ND<0.62	ND<0.62	ND<0.62	ND<0.62
20	4.4	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
24	1.1	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

MW-3						
Depth (ft)	TPHd	TPHg	B	T	E	X
5.5	ND<1.0	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.005

POBS-B2						
Depth (ft)	TPHd	TPHg	B	T	E	X
9	NA	480	ND<3.1	ND<3.1	ND<3.1	ND<3.1
14	NA	1,500	7.5	ND<6.2	17	21

SB-2						
Depth (ft)	TPHd	TPHg	B	T	E	X
5.5	160	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
8	34	2.3	ND<0.005	ND<0.005	ND<0.005	ND<0.005
15	10	60	ND<0.62	ND<0.62	ND<0.62	ND<0.62

MW-4						
Depth (ft)	TPHd	TPHg	B	T	E	X
5	NA	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
10	NA	93	ND<0.005	ND<0.005	ND<0.005	ND<0.005

NIW-B2						
Depth (ft)	TPHd	TPHg	B	T	E	X
14	NA	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

MW-2						
Depth (ft)	TPHd	TPHg	B	T	E	X
5	ND<1.0	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.005
12.5	ND<1.0	480	ND<0.20	0.37	3.2	6.5

MW-6						
Depth (ft)	TPHd	TPHg	B	T	E	X
10	NA	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

PIW-A2						
Depth (ft)	TPHd	TPHg	B	T	E	X
5.5	NA	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
9.5	NA	150	ND<0.062	ND<0.062	0.91	ND<0.062

SB-5						
Depth (ft)	TPHd	TPHg	B	T	E	X
10	58	450	ND<3.1	ND<3.1	ND<3.1	3.2
13.5	36	500	ND<3.1	ND<3.1	4.5	6.8
17	2.7	3.6	0.031	0.027	0.048	0.13
20.5	1.9	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

MW-1						
Depth (ft)	TPHd	TPHg	B	T	E	X
7.5	ND<1.0	ND<10	ND<0.005	ND<0.005	ND<0.005	ND<0.005
10.5	ND<1.0	17	ND<0.005	0.1	0.19	0.25

SB-1						
Depth (ft)	TPHd	TPHg	B	T	E	X
8	1,700	1,400	ND<6.2	ND<6.2	24	ND<6.2
11	40	280	ND<1.2	ND<1.2	2.8	11
13.5	79	390	ND<1.2	ND<1.2	3.0	7.9
19.5	16	400	5.1	ND<3.1	ND<3.1	ND<3.1

SB-4						
Depth (ft)	TPHd	TPHg	B	T	E	X
9	16	190	ND<0.62	ND<0.62	ND<0.62	ND<0.62
11	8.7	190	ND<1.2	ND<1.2	ND<1.2	1.3
13	4.8	58	ND<0.62	ND<0.62	ND<0.62	ND<0.62
16.5	3.8	1.1	ND<0.005	ND<0.005	0.014	0.018

SB-3						
Depth (ft)	TPHd	TPHg	B	T	E	X
8	23	390	2.6	ND<1.2	6.9	25
10	19	490	3.4	3.3	6.0	23
17	1.2	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
19.5	1.5	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

MW-5						
Depth (ft)	TPHd	TPHg	B	T	E	X
10	NA	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005

LEGEND

MW-1	MONITORING WELL
PIW-B3	INJECTION WELL
DP-1	DUAL-PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
NOBS-B1	OBSERVATION WELL
SB-1	SOIL BORING - BY SECOR (ABANDONED 2003)
R-1	SOIL BORING - BY SECOR (ABANDONED JULY, 2005)
	FORMER EXCAVATION BOUNDARIES
	FENCE LINE

WELL DESIGNATION

A = INDICATES WELL IN THE A-ZONE
B = INDICATES WELL IN THE B-ZONE

NOTES

CONCENTRATIONS OF COMPOUNDS ARE MEASURED IN MILLIGRAMS PER KILOGRAM (mg/kg).

ABBREVIATIONS

TPHg	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPHd	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
B	Benzene
T	Toluene
E	EthylBenzene
X	Xylenes
Depth (ft)	Depth in Feet Below Ground Surface
ND<	Not Detected at or Above Reporting Limit

0 40 80
APPROXIMATE SCALE IN FEET

Stantec
57 Lafayette Circle, 2nd Floor
Lafayette, CA 94549
(925) 299-9300/299-9302 (Fax)

FOR:
DAVID D. BOHANNON ORGANIZATION
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

PETROLEUM HYDROCARBON CONCENTRATIONS IN SOIL PRE-REMEDIATION

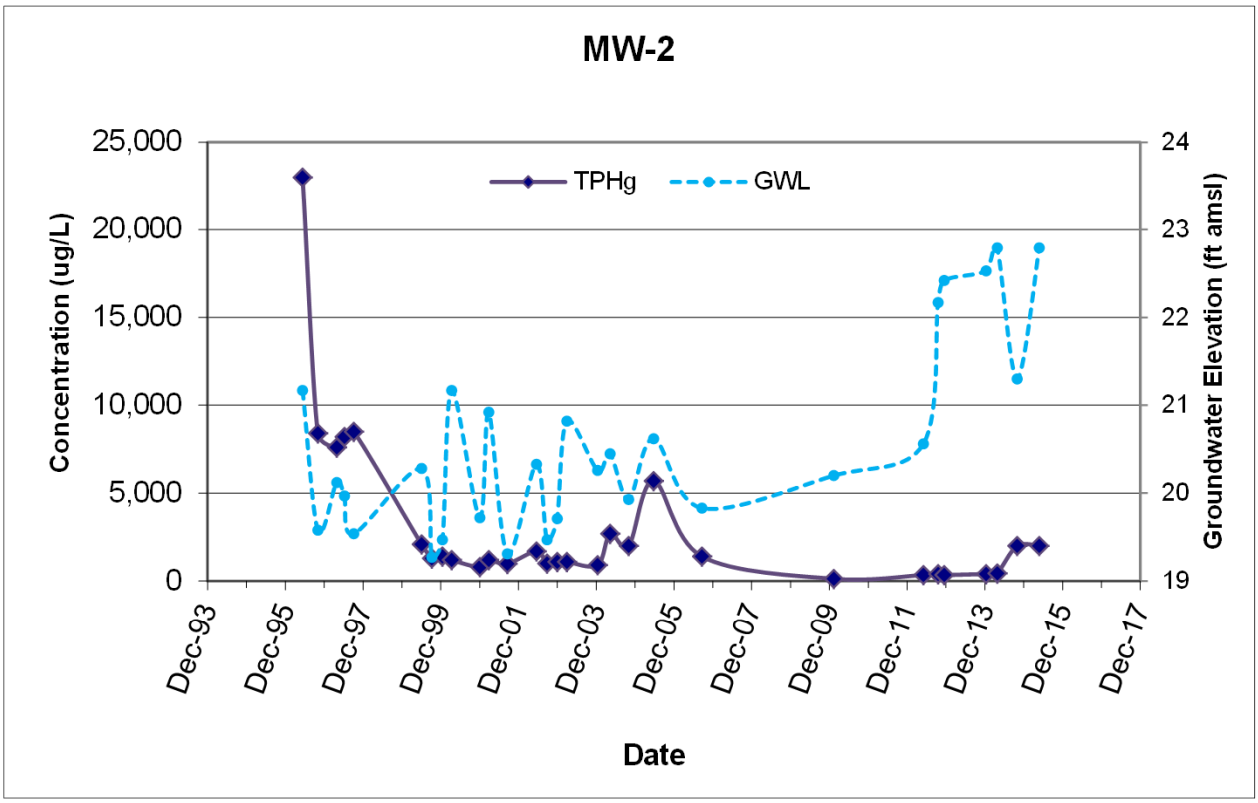
FIGURE: **A-5**

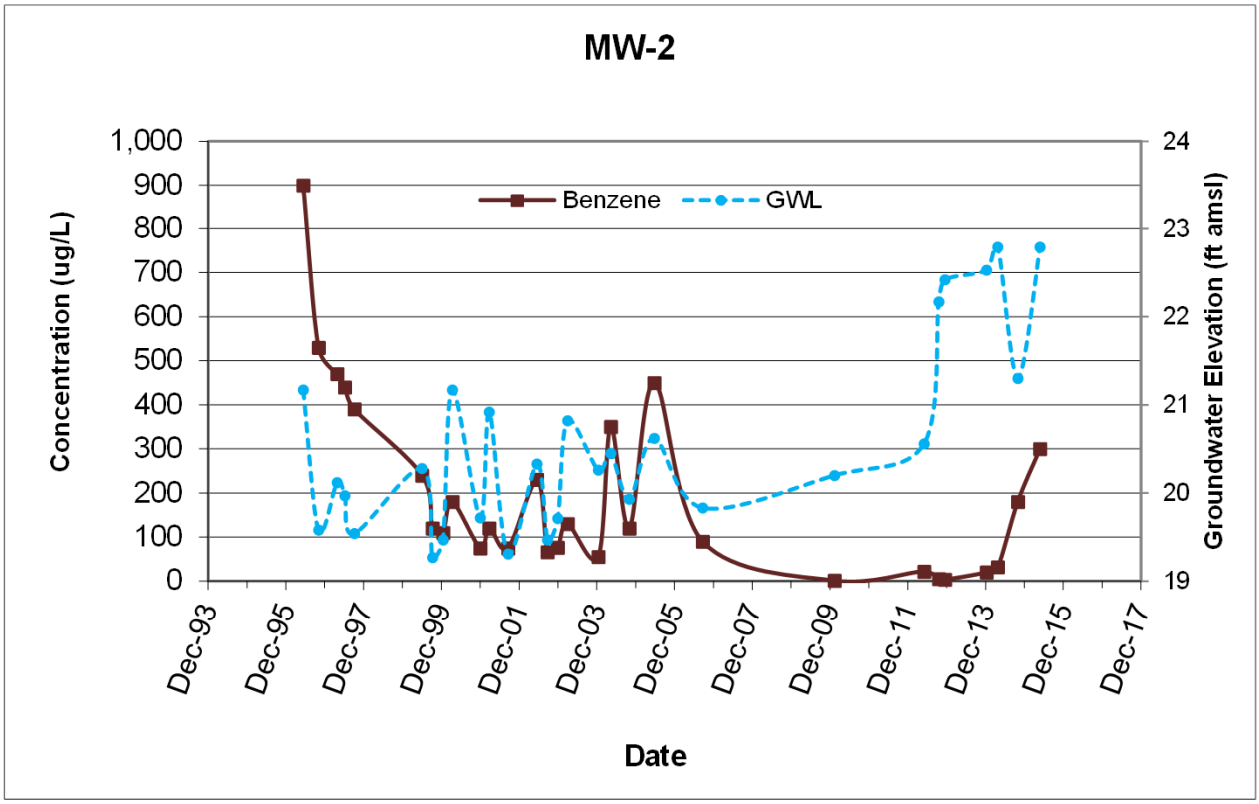
JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185702534.200.0003	JMA	JMA	CRM	12/12/12

FILEPATH:M:\BOHANNON\2012 SCM\BOH-F3-F10-2012-RRR.dwg|malbrecht|Dec 13, 2012 at 9:05|Layout: FIGURE-8

APPENDIX B
TREND GRAPHS

APPENDIX B
Groundwater Trend Charts





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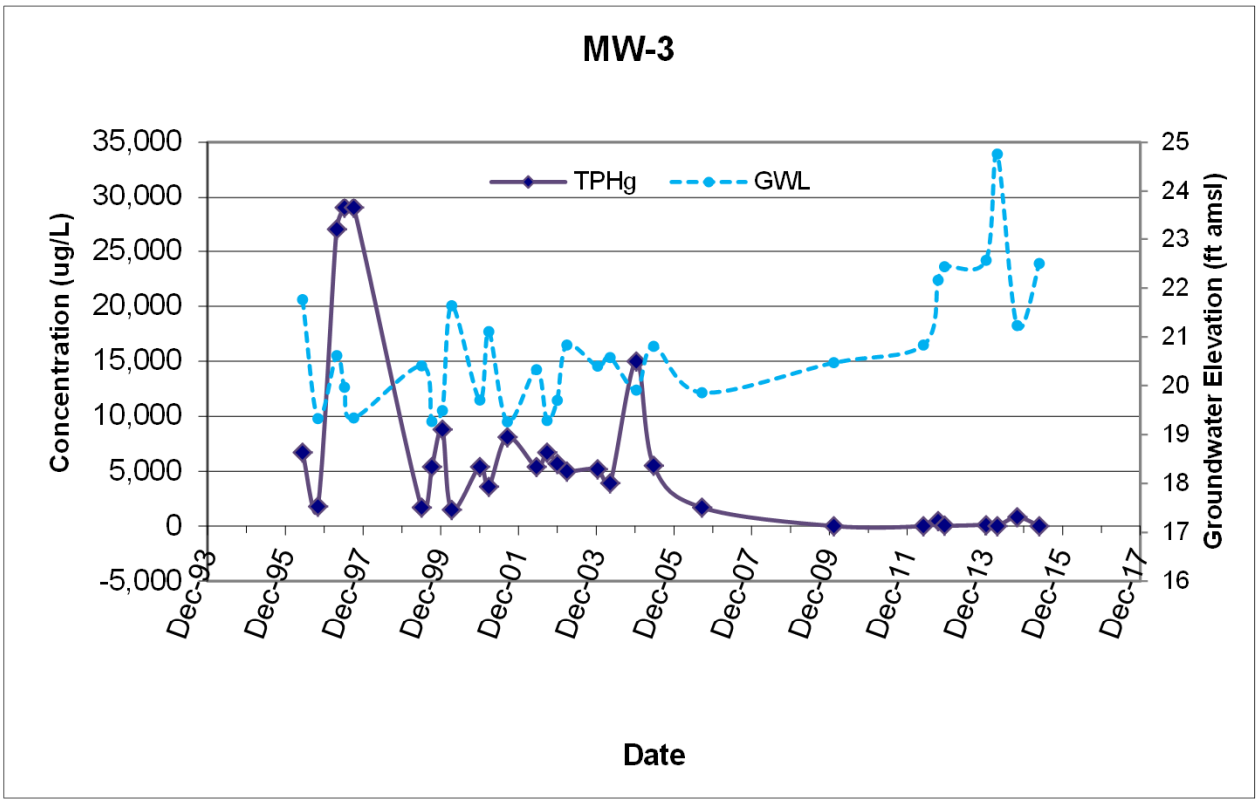
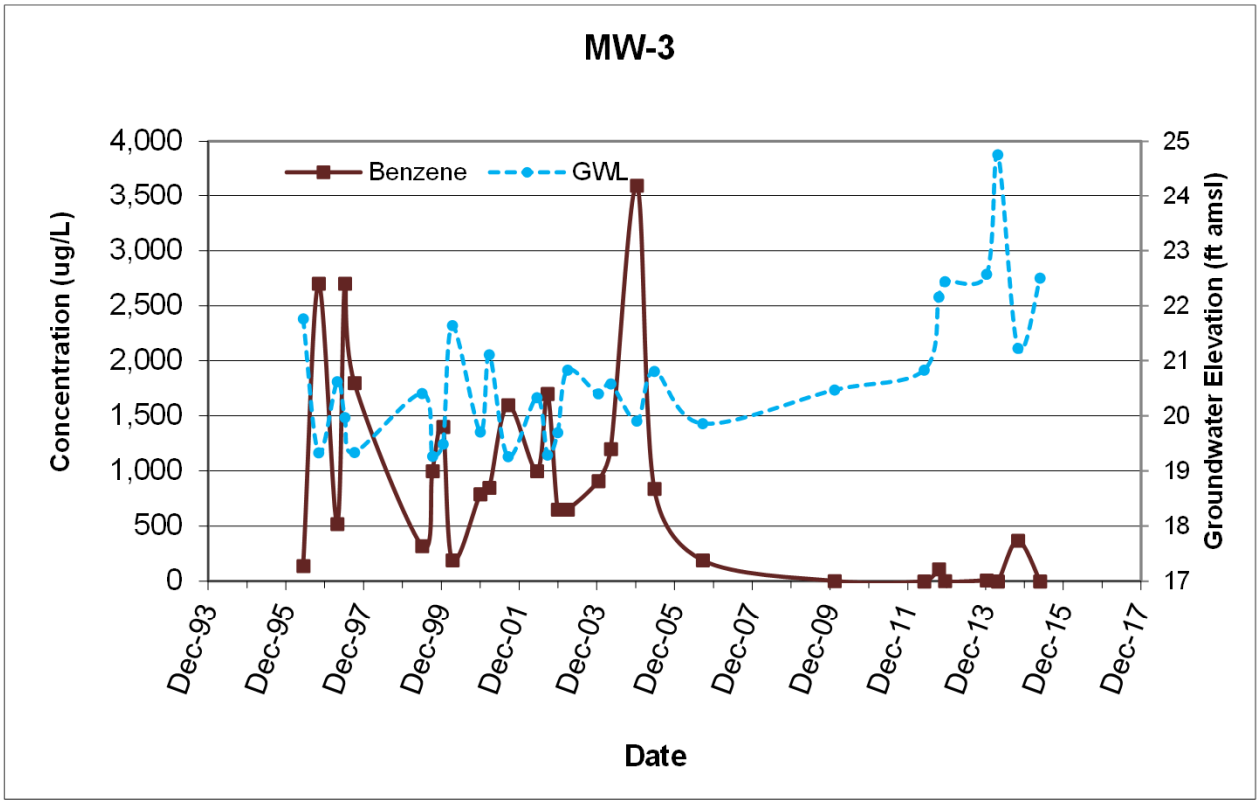
APPENDIX B
Groundwater Trend Charts





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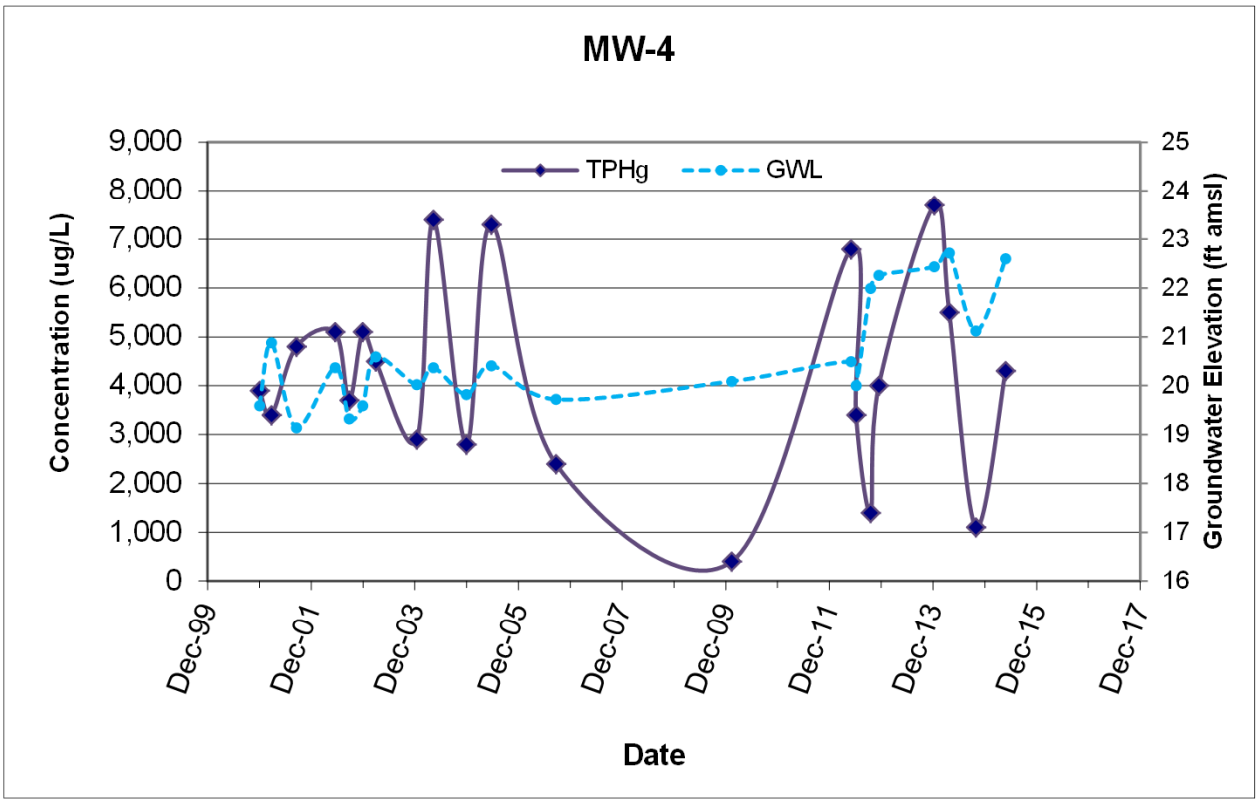
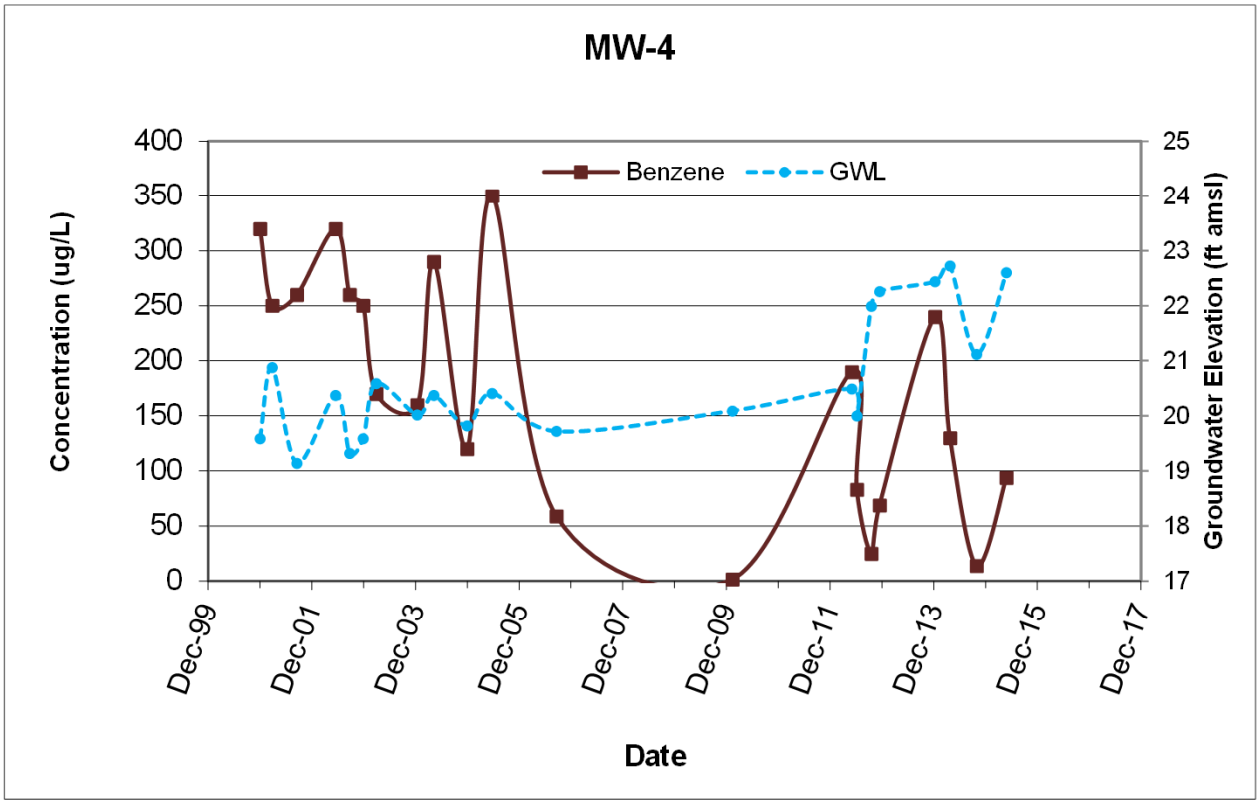
APPENDIX B
Groundwater Trend Charts





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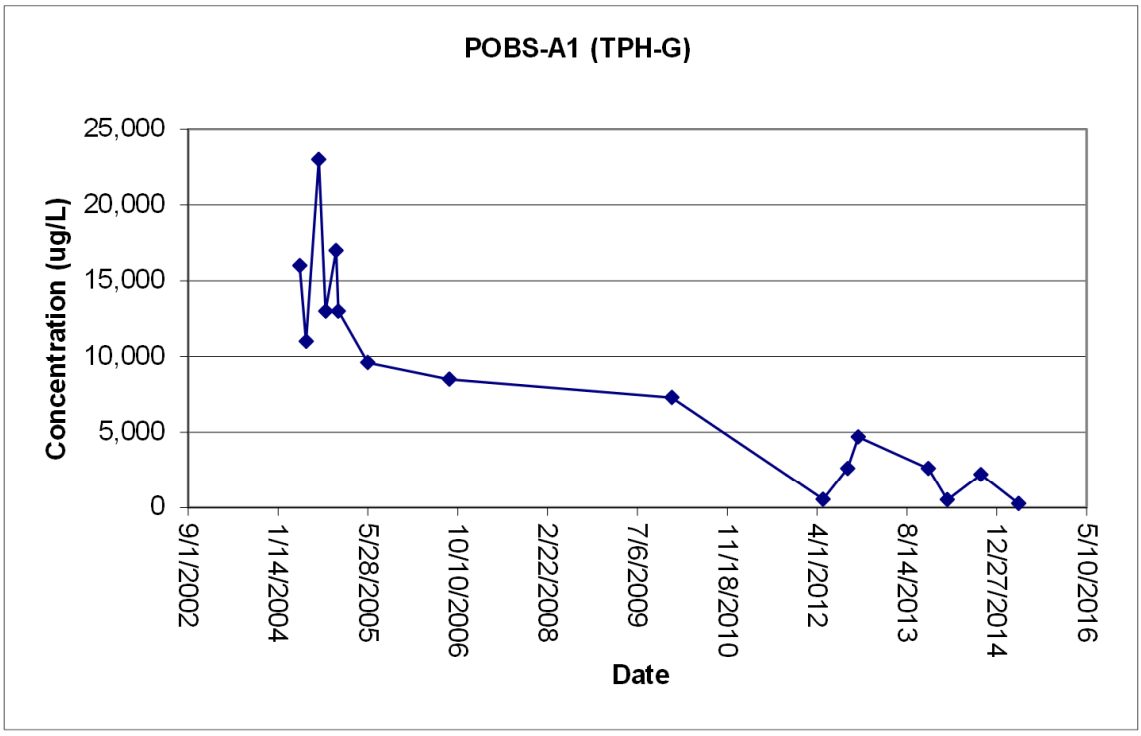
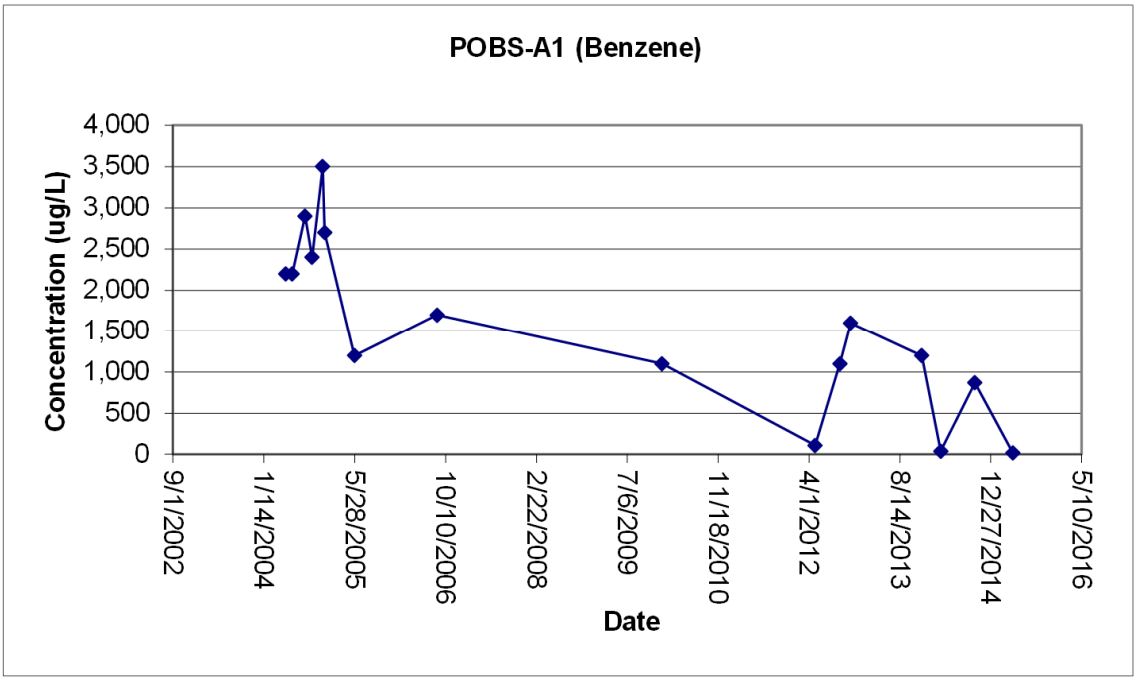
APPENDIX B
Groundwater Trend Charts





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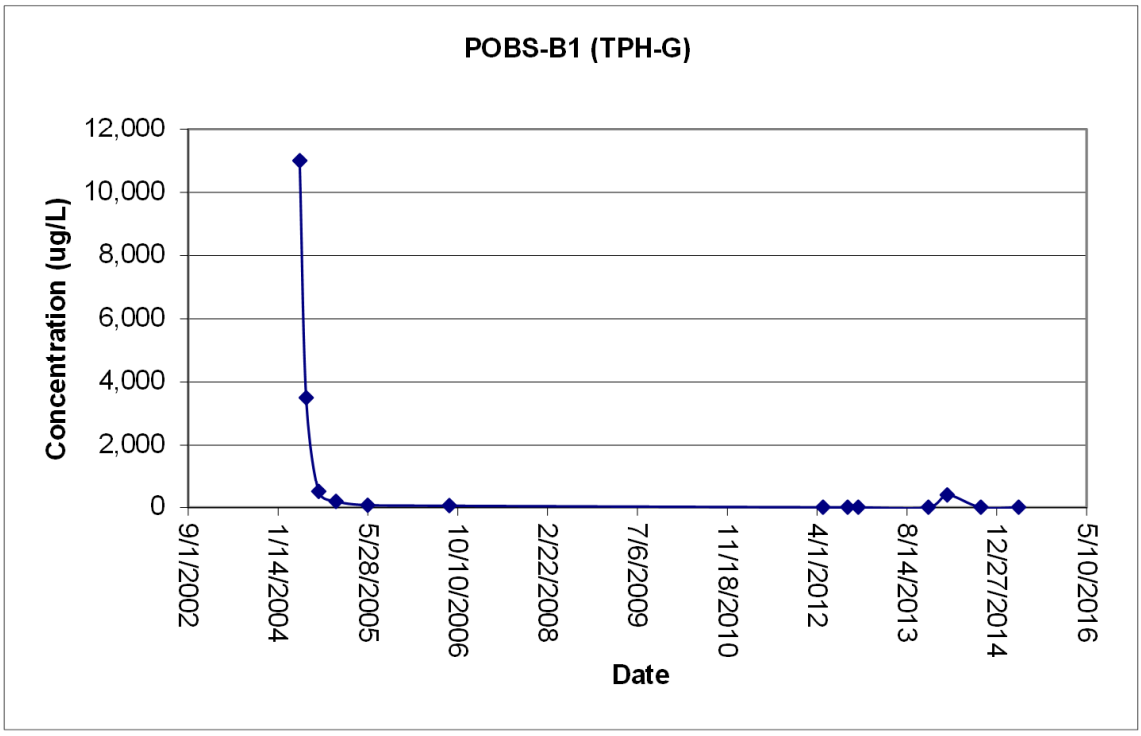
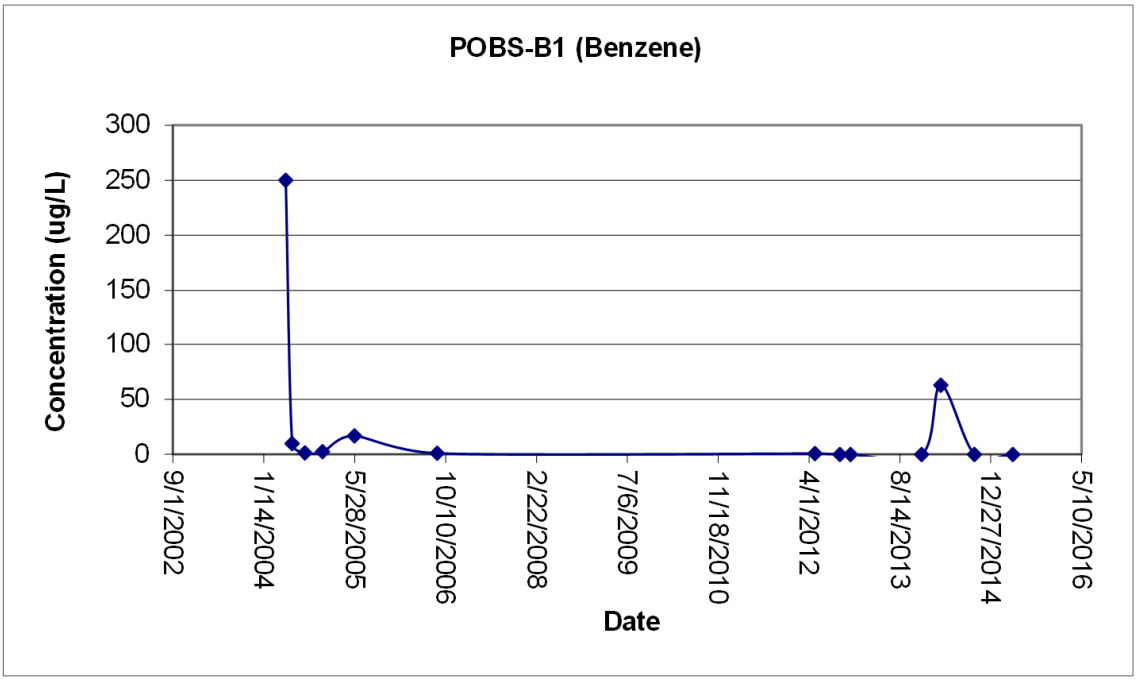
APPENDIX B
Groundwater Trend Charts





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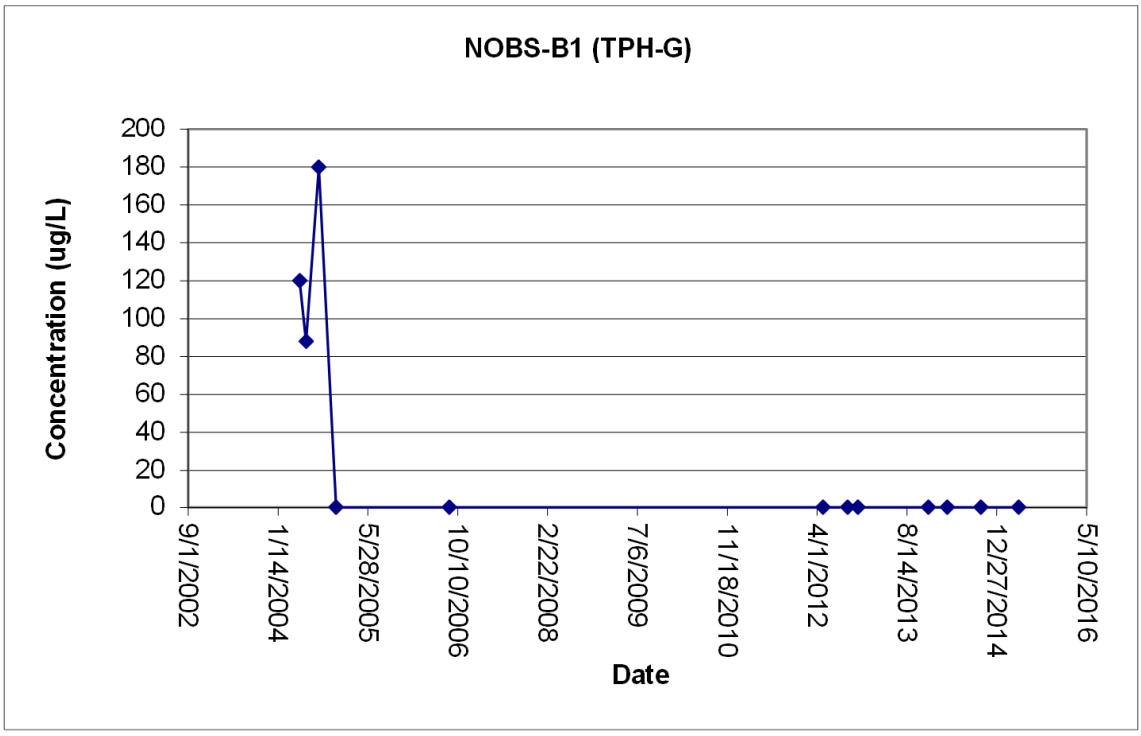
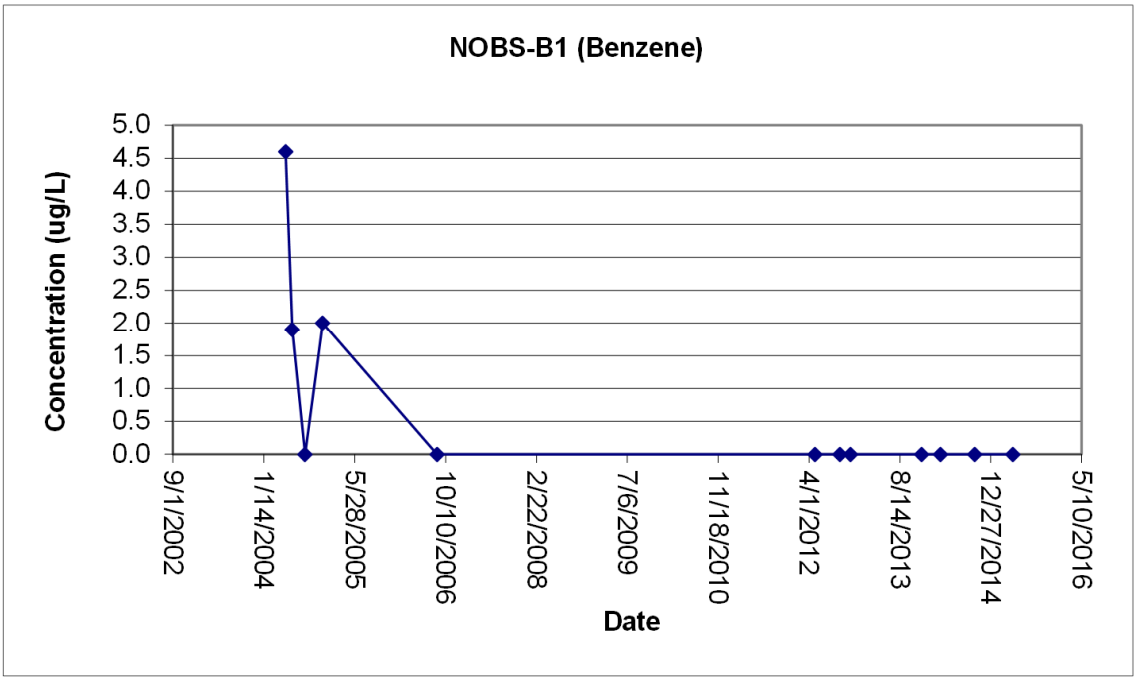
APPENDIX B
Groundwater Trend Charts





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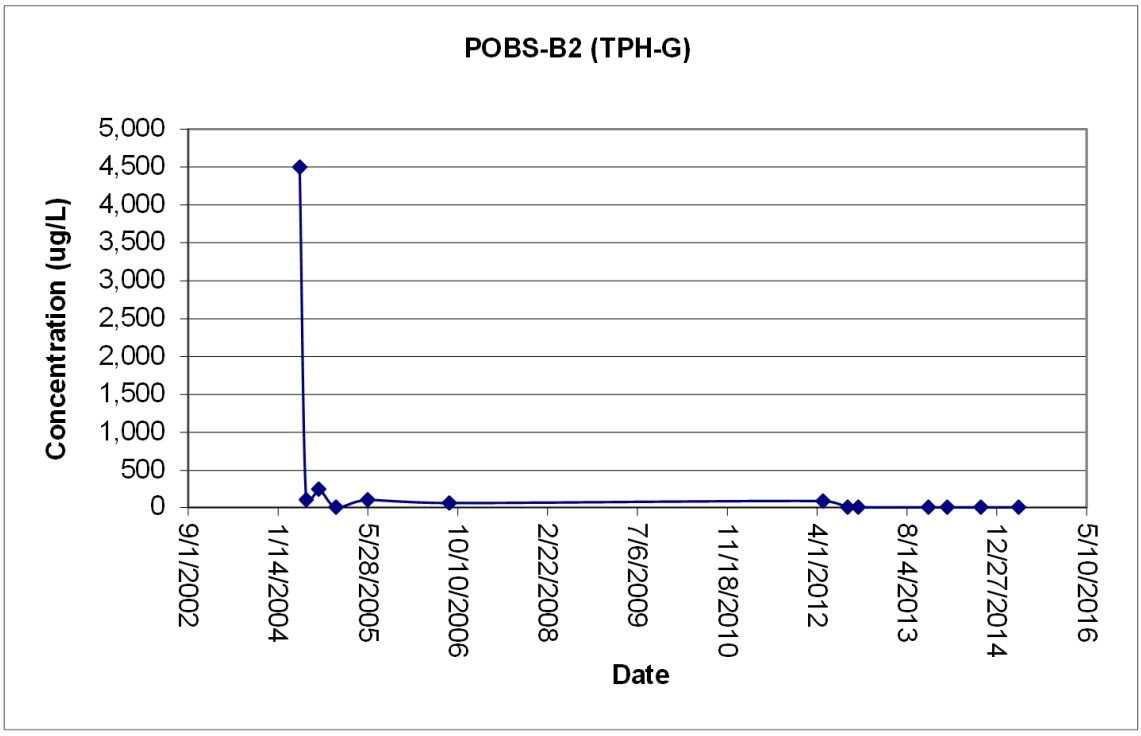
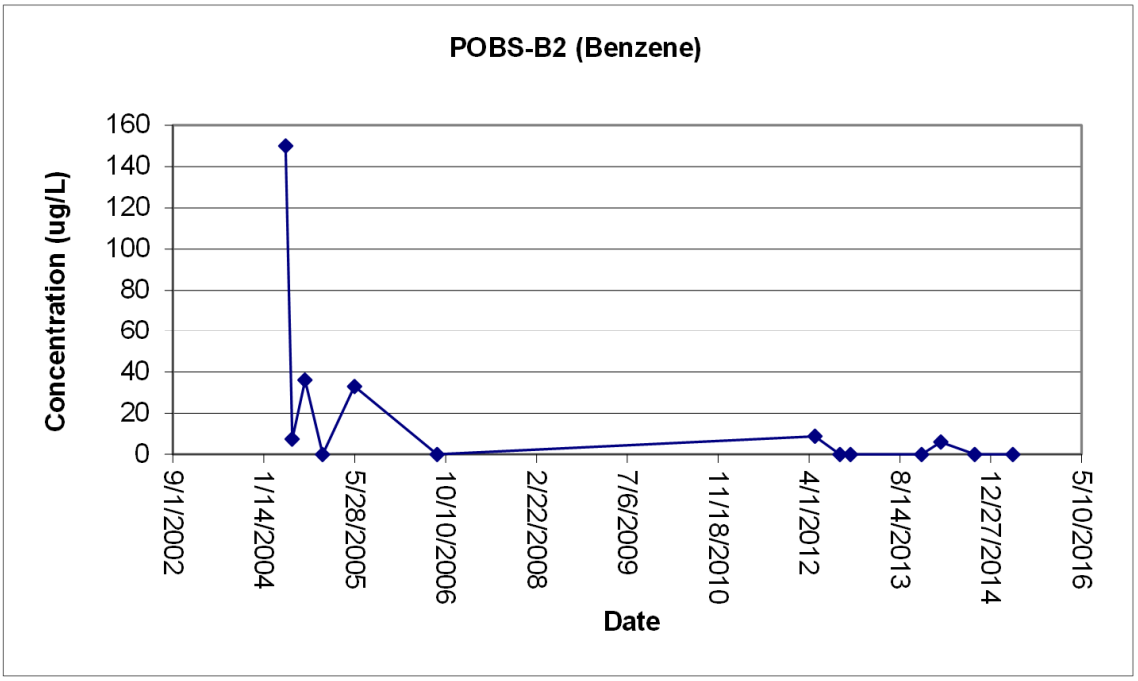
Groundwater Trend Charts





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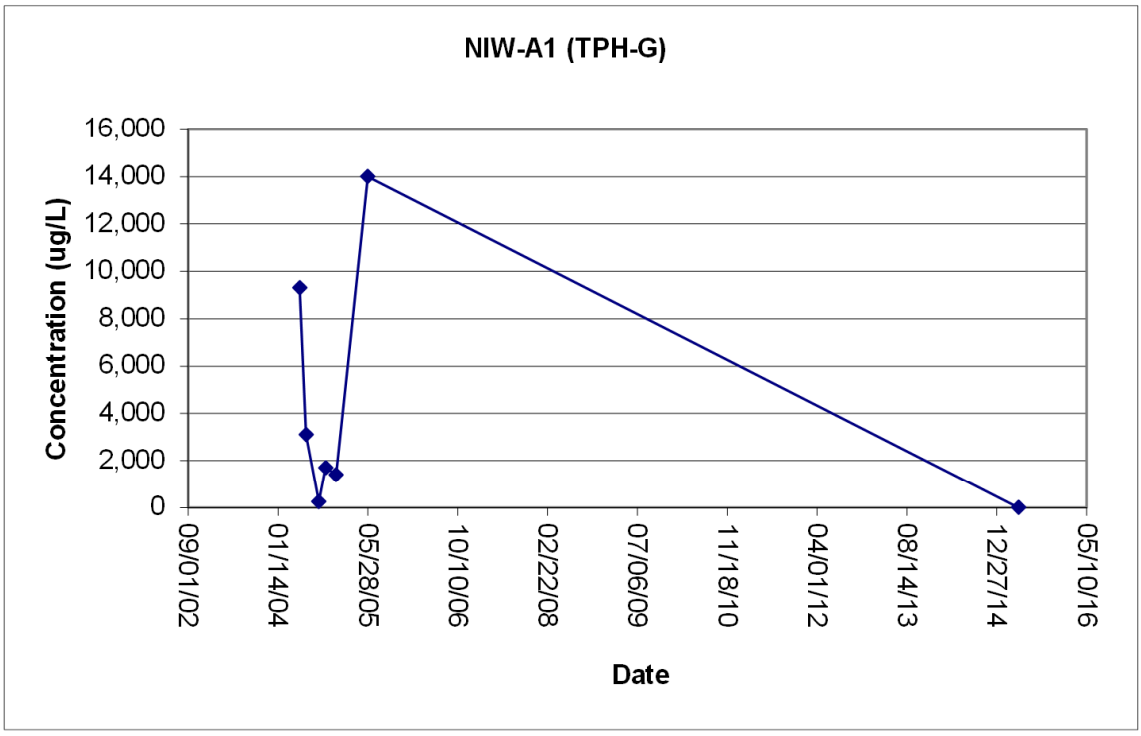
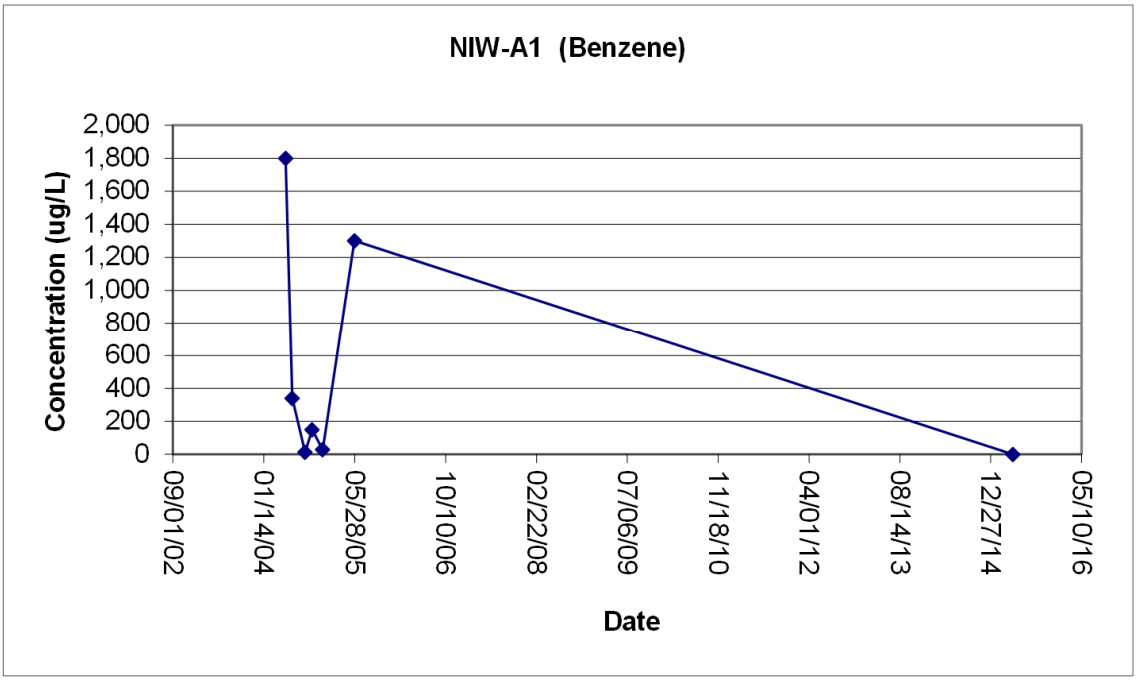
Groundwater Trend Charts





Stantec

APPENDIX C
SAMPLE COLLECTION AND WELL INSTALLATION PROCEDURES

Stantec

APPENDIX C
Sample Collection and Well Installation Procedures

C-1 SOIL VAPOR WELL CONSTRUCTION

Borings for shallow vapor wells were advanced manually using a hand auger to a maximum depth of 5 feet below ground surface (bgs). One 6-inch soil sample was collected from approximately 2.5 -to-3 feet bgs from each boring location with a slide hammer. The soil samples were submitted to PTS Laboratories of Santa Fe Springs, California under chain-of-custody procedures to be analyzed for physical parameters in the Cal-EPA/DTSC soil vapor intrusion package.

The soil vapor wells were constructed by adding a 6-inch-long stainless steel screen to the borehole attached to ¼-inch-diameter Teflon® tubing which extended above the ground surface at each boring. The screen was placed on top of approximately 3 inches of No. 2/12 sand at the bottom of each boring. Sand was filled to approximately 6 inches above the screen, followed by approximately 4 inches of dry granular bentonite, and hydrated granular bentonite to the ground surface. The Teflon® tubing was closed off at the surface in each well for at least 48 hours to allow subsurface conditions to equilibrate prior to vapor sampling.

C-2 SOIL VAPOR SAMPLING

Soil vapor sampling was conducted at the Site in general accordance with the April 2012 *Advisory – Active Soil Gas Investigations* developed by the California Environmental Protection Agency/Department of Toxic Substances Control (Cal-EPA/DTSC) and Los Angeles and San Francisco RWQCB's and consistent with the 2011 shallow soil vapor survey at the Site.

Prior to sampling, a helium shroud was placed over the sampling train above each sampling location and sealed at the ground in a layer of hydrated bentonite. A vacuum shut-in test was conducted at each location by applying a vacuum of 5- to-10 inches mercury (in Hg) to the sample train for one minute and observing any loss of vacuum. Sample train fittings were adjusted and shut-in test repeated if vacuum loss is observed. After a successful shut-in test was completed at each sampling location, the shroud was filled with helium and maintained at a concentration of at least 30 percent helium. The helium concentration inside the shroud was measured with a helium detector (Dielectric® MGD-2002 or equivalent).

After filling the shroud with helium, well purging was conducted to remove three well volumes using a lung box, Tedlar® bag, and a vacuum pump. During purging, the Tedlar® bag was measured for helium with the helium detector as a field leak check.

Soil vapor samples were collected in laboratory-supplied and batch-certified 1-liter Summa canisters equipped with flow regulators. Sample flow rates were set at approximately 200 milliliters per minute (mL/min) using a regulator that was pre-calibrated in the laboratory. Start and stop times and initial and final vacuum pressures were recorded on field sheets and the chain-of-custody. The 1-liter Summa canisters was shipped under chain-of-custody procedures

to a California-certified analytical laboratory. Samples were submitted for analysis of VOCs using modified Method TO-15 (a gas chromatograph/mass spectrometer [GC/MS] analytical method) and for the leak check compound, helium, using modified American Society for Testing and Materials (ASTM) D-1946.

C-3 DIRECT-PUSH SOIL SAMPLING PROCEDURES

Soil borings were advanced using a dual-wall direct-push soil coring system under the supervision of a Stantec geologist. Boring locations were hand augered to a depth of 5 feet bgs prior to direct-push sampling to clear the boring for subsurface utilities. The soil borings were advanced and continuously cored to a total depth. The liners containing the soil samples were removed from the sampler and retained for lithologic description and chemical analysis.

A Stantec geologist logged the soils encountered from the continuous core according to the Unified Soil Classification System (USCS) and maintained a soil boring log of these descriptions. Any odor or staining was noted, and soils were screened for organic vapors using a PID.

Soil samples for VOC analysis were be collected directly from the soil core in Terra Core preservation vials in accordance with the United States Environmental Protection Agency (US EPA) 5035 preparation method. Samples retained for analysis were labeled to indicate job number, boring number, sample depth, sample number, time and date collected, and then stored in a cooler containing ice. Soil samples were delivered to TestAmerica of Pleasanton, California under chain-of-custody documentation. Upon completion, each soil boring was backfilled to the surface with neat cement grout. All sampling equipment was washed between sampling locations using a phosphate-free detergent and double-rinsed using clean water.

C-4 OFF-SITE HYDROPUNCH™ SAMPLING

Stantec advanced seven HydroPunch™ soil borings at the locations downgradient of the Site for the collection of discrete depth groundwater samples. Up to two HydroPunch™ samples were collected from depths based on observations of groundwater in the soil borings, and generally targeted the 'A' zone water-bearing sediments including perched groundwater from 5- to-8 feet bgs and deeper silty sand lens starting at approximately 13 feet bgs. HydroPunch™ soil borings were advanced using a truck-mounted, direct-push sampling system under the supervision of a Stantec geologist. Upon penetration of the upper perched groundwater zone (where encountered), the sampling rod was retracted to expose a stainless-steel screen to the formation. Groundwater samples were collected using either a stainless-steel bailer, a disposable bailer, or a peristaltic pump fitted with disposable tubing. Following sample collection from the perched water zone, the sampling rods and screen were removed from the borehole and decontaminated using a pressure-washing system; the sampling system was then be placed back in the borehole and advanced to the deeper water-bearing zone for collection of a second groundwater sample. Groundwater samples were transferred to

laboratory-supplied glassware, labeled, and transported to TestAmerica under chain-of-custody documentation. Groundwater samples will be analyzed for gasoline range organics and BTEX by EPA Method 8260B. Upon completion, each soil boring was backfilled to the surface with neat cement grout.

C-5 ON-SITE WELL SAMPLING

Wells were purged and sampled using a low-flow purging method consisting of new dedicated tubing attached to a variable speed peristaltic pump set to extract groundwater at a rate of approximately 250 mL/min. Temperature, conductivity, pH, dissolved oxygen (DO) content, and oxidation reduction potential (ORP) were monitored using a flow-through cell during purging to confirm stable water conditions prior to sampling.

Samples were collected from each well using the dedicated tubing to eliminate the possibility of cross-contamination between wells. Samples will be placed in laboratory-supplied sample containers, labeled, and stored on ice pending delivery under chain-of-custody documentation to TestAmerica.

APPENDIX D
FIELD DATA SHEETS

Stantec

Soil Gas Sample Collection Data Log

Stantec	Project: Bollenmon		Project No: 185702934		Page 1 of 3
	Address: 575 Paseo Grande		Weather: Sunny		
	Date: 4-28-15		Surface/Soil Conditions: Asphalt		
	Field Personnel: C. Melancon		Other:		
Preliminary Data	Sample ID:	SV-18S	SV-16	SV-19	SV-18D
	Canister No.:	422	299	151	
	Flow Controller No.:	~~48~~ 37	2	12	
	Sample Depth (ft.):	5'	5'	5'	
	Probe/Well Tubing Length (ft.):	5.5'	5.5'	5.5'	
	Calculated Purge Volume (mL):				
Vacuum Leak Testing	Vacuum (in. Hg):	23	30	29	
	Duration of Leak Test:	>1 min	>1 min	>1 min	
	Pass/Fail:	Pass	Pass	Pass	
Purging	He (%) in Bag/Shroud:	0.25	0.67	0.56	
	Actual Purged Amount:	300 ml	300 ml	300 ml	
	Notes:				
Tracer Gas Monitoring	Initial Canister Vacuum (in Hg):	30	30	30	
	Start Time:	958	1029	1105	
	Helium @ Start (%):	37.3	60.1	54.1	
	Helium @ 2 min/-22 inHg (%):	34.8	38.0	43.1	
	Helium @ 4 min/-15 inHg (%):	31.0	24.5	33.3	
	Helium @ End (%):	19.7	18.1	17.8	
	End Time:	1006	1048	1114	
	Final Canister Vacuum (in Hg):	5	5	5	
TO-17	Sample tube #				
	Sample volume				
	Flow rate				
	Sample time				
Comments					purged water only - no sample

Soil Gas Sample Collection Data Log

Stantec	Project: Bohannon		Project No: 185702934		Page 2 of 3
	Address: 575 Paseo Grande		Weather: Sunny		
	Date: 4-28-15		Surface/Soil Conditions: Asphalt		
	Field Personnel: C. Melancon		Other:		
Preliminary Data	Sample ID:	SV-14	SV-10	SV-4	SV-7
	Canister No.:	60	127	283	243
	Flow Controller No.:	123	125	126	34
	Sample Depth (ft.):	5'	5'	5'	5'
	Probe/Well Tubing Length (ft.):	5.5'	5.5'	5.5'	5.5'
	Calculated Purge Volume (mL):				
Vacuum Leak Testing	Vacuum (in. Hg):	30	30	30	29
	Duration of Leak Test:	7 / min	7 / min	7 / min	7 / min
	Pass/Fail:	Pass	Pass	Pass	Pass
Purging	He (%) in Bag/Shroud:	0/56.8	0/46	0/65	0/47
	Actual Purged Amount:	300 ml	300 ml	300 ml	300 ml
	Notes:				
Tracer Gas Monitoring	Initial Canister Vacuum (in Hg):	30	30	30	30
	Start Time:	1159	1250	1327	1408
	Helium @ Start (%):	56.1	45.5	63.0	47.1
	Helium @ 2 min/-22 inHg (%):	30.0	34.3	42.1	28.1
	Helium @ 4 min/-15 inHg (%):	23.8	21.2	30.3	22.8
	Helium @ End (%):	17.3	17.1	20.3	17.5
	End Time:	1209	1300	1337	1422
	Final Canister Vacuum (in Hg):	5	5	5	5
TO-17	Sample tube #	G0148954	G0147785	G0139970	G0132038
	Sample volume	200 ml	200 ml	200 ml	200 ml
	Flow rate	60 ml/min	60 ml/min	60 ml/min	60 ml/min
	Sample time	1231	1316	1350	1435
Comments					

Soil Gas Sample Collection Data Log

Stantec	Project: Bohannon		Project No: 185702934		Page 3 of 3
	Address: 575 Paseo Grande		Weather: Sunny		
	Date: 4-29-15		Surface/Soil Conditions: Asphalt		
	Field Personnel: C. Melancon		Other:		
Preliminary Data	Sample ID:	SV-15	SV-2	SV-13	
	Canister No.:	78	241	341	
	Flow Controller No.:	150	128	316	
	Sample Depth (ft.):	5	5	5	
	Probe/Well Tubing Length (ft.):	5.5	5.5	5.5	
	Calculated Purge Volume (mL):				
Vacuum Leak Testing	Vacuum (in. Hg):	30	28	22	
	Duration of Leak Test:	1 min	1 min	1 min	
	Pass/Fail:	Pass	Pass	Pass	
Purging	He (%) in Bag/Shroud:	0137	0135	0144	
	Actual Purged Amount:	300 ml	300 ml	300 ml	
	Notes:				
Tracer Gas Monitoring	Initial Canister Vacuum (in Hg):	30	30	30	
	Start Time:	746	815	838	
	Helium @ Start (%):	45.7	46.8	45.2	
	Helium @ 2 min/-22 inHg (%):	39.2	39.5	33.3	
	Helium @ 4 min/-15 inHg (%):	35.6	28.6	22.7	
	Helium @ End (%):	24.4	19.7	18.1	
	End Time:	754	825	847	
	Final Canister Vacuum (in Hg):	5	5	5	
TO-17	Sample tube #				
	Sample volume				
	Flow rate				
	Sample time				
Comments		Purged some water on 4-28 no water today.			

CHAIN OF COSTODY

Page 1 of 1

Chain of Custody #

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN #

Project No: 185702934
Project Name: Bohannon
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Charles Melancon
Report To: Eva Hey
Company: Stantec
Telephone: 925-296-2101
Email: eva.hey@stantec.com

Lab No.	Sample ID.	SAMPLING: Date Collected	SAMPLING: Time Collected	MATRIX: Water	MATRIX: Solid	MATRIX: Air	# of Containers	CHEMICAL PRESERVATIVE: HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST: VOC's + Napthalene by TO-15	Helium, oxygen, nitrogen, methane, & CO2 by ASTM D-1946	initial Vacuum	Final Vacuum
	SV-18S (can# 422)	4-28-15	1006			X	1					X	X	X	30	5
	SV-16 (can# 299)	↓	1048			↓	1					↓	↓	↓	30	5
	SV-19 (can# 151)	↓	1114			↓	1					↓	↓	↓	30	5
	SV-14 (can# 60)	↓	1209			↓	1					↓	↓	↓	30	5
	SV-10 (can# 127)	↓	1300			↓	1					↓	↓	↓	30	5
	SV-4 (can# 283)	↓	1337			↓	1					↓	↓	↓	30	5
	SV-7 (can# 243)	↓	1422			↓	1					↓	↓	↓	30	5
	SV-15 (can# 78)	4-29-15	754			↓	1					↓	↓	↓	30	5
	SV-2 (can# 241)	↓	825			↓	1					↓	↓	↓	30	5
	SV-13 (can# 341)	↓	847			↓	1					↓	↓	↓	30	5

Notes:

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:			RECEIVED BY:		
[signature]	DATE: 4-29-15	TIME: 1125	[signature]	DATE: 4/29/15	TIME: 1125
	DATE:	TIME:		DATE:	TIME:
	DATE:	TIME:		DATE:	TIME:

TO-17 SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

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

Project Manager: Eva Hey
Collected by: (Print and Sign) C. Melancon
Company: Stantec Email: eva.hey@stantec.com
Address: 1340 Treat Blvd. ste 300 City: Walnut Creek State: CA Zip: 94597
Phone: 925-296-2101 Fax:

Project Info:
P.O. #:
Project #: 185702934
Project Name: Bohannon

Turn Around Time:
☒ Normal
☐ Rush
specify

Reporting Units:
☐ ppmv
☐ ppbv
☐ µg/m3
☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Engraved or Stamped Tube #	Date of Collection (mm/dd/yy)	Start Time (hr : min)	End Time (hr : min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume (ml)	Indoor/Outdoor % RH	Indoor/Outdoor Temp	Indoor Air	Outdoor Air	Soil Vapor	Other ( )
	SV-14	E0148954	4-28-15	1228	1231	60 ml/min	60 ml/min	200			☐	☐	☒	☐
	SV-10	E0147785	↓	1313	1316	↓	↓	↓			☐	☐	☒	☐
	SV-4	E0139970	↓	1347	1350	↓	↓	↓			☐	☐	☒	☐
	SV-7	E0132038	↓	1433	1435	↓	↓	↓			☐	☐	☒	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	4-29-15 / 1230		
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: TO-17 for Naphthalene

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact? Yes No None	Work Order #

Soil Gas Sample Collection Data Log

Stantec	Project: Bolsa Chica - San Lorenzo		Project No: 185702934		Page 1 of 1
	Address: 575 Paseo Grande		Weather: Sunny		
	Date: 1-6-15		Surface/Soil Conditions: Asphalt		
	Field Personnel: C. Melancon		Other:		
Preliminary Data	Sample ID:	SV-16	SV-18(S)	SV-19	SV-17
	Canister No.:	30391	30910	3698	1L1563
	Flow Controller No.:	20410	687	252	363
	Sample Depth (ft.):	5'	5'	5'	5'
	Probe/Well Tubing Length (ft.):	5.5'	5.5'	5.5'	5.5'
	Calculated Purge Volume (mL):				
Vacuum Leak Testing	Vacuum (in. Hg):	25	23	26	26
	Duration of Leak Test:	>1 min	>1 min	>1 min	>1 min
	Pass/Fail:	Pass	Pass	Pass	Pass
	Notes:				
Purging	He (%) in Bag/Shroud:	99/0	91.1/0	90.8/0	89.1
	Actual Purged Amount:	1L	1L	1L	1L
	Notes:				
Tracer Gas Monitoring	Initial Canister Vacuum (in Hg):	30	30	30	30
	Start Time:	827	946	1104	1217
	Helium @ Start (%):	98.5	90.5	90.4	88.6
	Helium @ 10 min/-12 inHg (%):	—	—	—	—
	Helium @ End (%):	97.1	89.3	88.9	87.3
	End Time:	837	953	1109	1223
	Final Canister Vacuum (in Hg):	~~2~~ 0.5 *	4	4	4
TO-17	Sample tube #	G0132052	G0149175	G0135607	G0147093
	Sample volume	200 ml	200 ml	200 ml	200 ml
	Flow rate	20 ml/min	20 ml/min	20 ml/min	20 ml/min
	Sample time	900	1010	1132	1238
Comments	Note: SV-15 Produced water	*Sticky regulator resulted in overfilling of can	Note: SV-18(D) produced all water		

Stantec

SITE VISITATION REPORT

Project: Sobrato
Date: 10-15-14
Project No: 185702934
Name of Technicians(s): C. Mclaren
Rate Sch/Bill Code:
Arrival Time: 700
Departure Time: 1500
Did you call in? Yes No
Who did you call?
Weather Notations: SUN CLOUDY RAIN SNOW
Temperature: F

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES

6-7 MOB
7-730 Safety Meet
730-830 Utility locate, setup traffic control
830-900 Mob rig to Del Sol street & setup
9-1130 Drill HP-14, 15, & 16 and set temp casing and expose bottom 5' of boreholes (10-15' bgs)
1130-12 Lunch / wait for water
12-1230 Sample GW from HP-15 & 16 (14 is dry-3415)
1230-1300 Drive HP-14 to 20' & set casing (15-20 exposed)
13-1330 grout HP-15 & 16
1330-1400 sample HP-14 & grout and patch hole
14-1500 Demob rig back to site, pick up traffic control, label drums (1-decon, 1-soil)
15-1520 Drive to lab
1530-1545 drop off samples
1545-1730 Demob

Soil Gas Sample Collection Data Log

Stantec	Project: Bollenmon		Project No: 185702934		Page 1 of 3
	Address: 575 Paseo Grande		Weather: Sunny		
	Date: 4-28-15		Surface/Soil Conditions: Asphalt		
	Field Personnel: C. Melancon		Other:		
Preliminary Data	Sample ID:	SV-18S	SV-16	SV-19	SV-18D
	Canister No.:	422	299	151	
	Flow Controller No.:	~~48~~ 37	2	12	
	Sample Depth (ft.):	5'	5'	5'	
	Probe/Well Tubing Length (ft.):	5.5'	5.5'	5.5'	
	Calculated Purge Volume (mL):				
Vacuum Leak Testing	Vacuum (in. Hg):	23	30	29	
	Duration of Leak Test:	>1 min	>1 min	>1 min	
	Pass/Fail:	Pass	Pass	Pass	
Purging	He (%) in Bag/Shroud:	0.25	0.67	0.56	
	Actual Purged Amount:	300 ml	300 ml	300 ml	
	Notes:				
Tracer Gas Monitoring	Initial Canister Vacuum (in Hg):	30	30	30	
	Start Time:	958	1029	1105	
	Helium @ Start (%):	37.3	60.1	54.1	
	Helium @ 2 min/-22 inHg (%):	34.8	38.0	43.1	
	Helium @ 4 min/-15 inHg (%):	31.0	24.5	33.3	
	Helium @ End (%):	19.7	18.1	17.8	
	End Time:	1006	1048	1114	
	Final Canister Vacuum (in Hg):	5	5	5	
TO-17	Sample tube #				
	Sample volume				
	Flow rate				
	Sample time				
Comments					purged water only - no sample

Soil Gas Sample Collection Data Log

Stantec	Project: Bohannon		Project No: 185702934		Page 2 of 3
	Address: 575 Paseo Grande		Weather: Sunny		
	Date: 4-28-15		Surface/Soil Conditions: Asphalt		
	Field Personnel: C. Melancon		Other:		
Preliminary Data	Sample ID:	SV-14	SV-10	SV-4	SV-7
	Canister No.:	60	127	283	243
	Flow Controller No.:	123	125	126	34
	Sample Depth (ft.):	5'	5'	5'	5'
	Probe/Well Tubing Length (ft.):	5.5'	5.5'	5.5'	5.5'
	Calculated Purge Volume (mL):				
Vacuum Leak Testing	Vacuum (in. Hg):	30	30	30	29
	Duration of Leak Test:	7 / min	7 / min	7 / min	7 / min
	Pass/Fail:	Pass	Pass	Pass	Pass
Purging	He (%) in Bag/Shroud:	0/56.8	0/46	0/65	0/47
	Actual Purged Amount:	300 ml	300 ml	300 ml	300 ml
	Notes:				
Tracer Gas Monitoring	Initial Canister Vacuum (in Hg):	30	30	30	30
	Start Time:	1159	1250	1327	1408
	Helium @ Start (%):	56.1	45.5	63.0	47.1
	Helium @ 2 min/-22 inHg (%):	30.0	34.3	42.1	28.1
	Helium @ 4 min/-15 inHg (%):	23.8	21.2	30.3	22.8
	Helium @ End (%):	17.3	17.1	20.3	17.5
	End Time:	1209	1300	1337	1422
	Final Canister Vacuum (in Hg):	5	5	5	5
TO-17	Sample tube #	G0148954	G0147785	G0139970	G0132038
	Sample volume	200 ml	200 ml	200 ml	200 ml
	Flow rate	60 ml/min	60 ml/min	60 ml/min	60 ml/min
	Sample time	1231	1316	1350	1435
Comments					

Soil Gas Sample Collection Data Log

Stantec	Project: Bohannon		Project No: 185702934		Page 3 of 3
	Address: 575 Paseo Grande		Weather: Sunny		
	Date: 4-29-15		Surface/Soil Conditions: Asphalt		
	Field Personnel: C. Melancon		Other:		
Preliminary Data	Sample ID:	SV-15	SV-2	SV-13	
	Canister No.:	78	241	341	
	Flow Controller No.:	150	128	316	
	Sample Depth (ft.):	5	5	5	
	Probe/Well Tubing Length (ft.):	5.5	5.5	5.5	
	Calculated Purge Volume (mL):				
Vacuum Leak Testing	Vacuum (in. Hg):	30	28	22	
	Duration of Leak Test:	1 min	1 min	1 min	
	Pass/Fail:	Pass	Pass	Pass	
Purging	He (%) in Bag/Shroud:	0137	0135	0144	
	Actual Purged Amount:	300 ml	300 ml	300 ml	
	Notes:				
Tracer Gas Monitoring	Initial Canister Vacuum (in Hg):	30	30	30	
	Start Time:	746	815	838	
	Helium @ Start (%):	45.7	46.8	45.2	
	Helium @ 2 min/-22 inHg (%):	39.2	39.5	33.3	
	Helium @ 4 min/-15 inHg (%):	35.6	28.6	22.7	
	Helium @ End (%):	24.4	19.7	18.1	
	End Time:	754	825	847	
	Final Canister Vacuum (in Hg):	5	5	5	
TO-17	Sample tube #				
	Sample volume				
	Flow rate				
	Sample time				
Comments		Purged some water on 4-28 no water today.			

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/29/15
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: NIW-A1	Depth to Water (DTW) (ft): 8.65		Sample DTW (ft): 8.84
Screen Interval (ft):	Depth to Bottom (DTB) (ft): 19.84		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 4		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ (DTB) ft - _____ (DTW) ft = _____ (Water Col) ft

80% of the water level: _____ (DTW) ft + (_____ (Water Col) ft X 0.2) = _____ (Recharge water level) ft

Estimated Purge Volume (EPV): = _____ (Water col) ft X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 1005

Time (24 hrs)	Volume (G /(L))	Temp. (°C) °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1010	1.5	20.86	8.85	599	7.24	Clear	Faint	0.66	-283.0
1015	2.5	20.85	8.84	599	7.07	"	"	0.40	-300.7
1020	3.5	20.85	8.84	597	7.03	"	"	0.34	-314.4
1025	4.5	20.89	8.84	595	7.01	"	"	0.24	-320.2
1030	5.5	20.90	8.84	594	7.01	"	"	0.22	-322.9

Liters / Gallons Purged: 5.5

Pump Rate in L or G /min: 150

Sampling Time: 1030

Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes: removed extraction pump prior to purge

EQUIPCO RENTALS

YSI 556MPS RENTAL
CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: WDG DATE: 04.28.15

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-556. 21
SERIAL#:
CUSTOMER.

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. CONDUCTIVITY	1000 µMhos	✓	413A90
2. pH ZERO	pH 7	✓	41004
3. pH SLOPE	pH 4	✓	41005
pH SLOPE	pH 10	✓	40890
4. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	✓	N/A
5. REDOX (ORP)	232 mV (YSI Zobell solution)	✓	040615

2100 Meridian Park Boulevard, Concord, CA. 94520 Phone (925) 609-1088 Fax (925) 609-1080

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: NOBS-B1	Depth to Water (DTW) (ft): 5.72		Sample DTW (ft): 5.79
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ ft (DTB) - _____ ft (DTW) = _____ ft (Water Col)

80% of the water level: _____ ft (DTW) + (_____ ft (Water Col) X 0.2) = _____ ft (Recharge water level)

Estimated Purge Volume (EPV): = _____ ft (Water col) X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 745

Time (24 hrs)	Volume (G (L))	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
750	1.5	19.91	5.80	1109	7.01	clear	none	0.85	496.5
755	2.5	19.84	5.78	1110	7.01	"	"	0.75	488.5
800	3.5	19.94	5.79	1110	7.00	"	"	0.74	484.8
805	4.5	19.91	5.79	1111	7.00	"	"	0.67	485.1
810	5.5	19.89	5.79	1110	7.00	"	"	0.66	485.6

Liters / Gallons Purged: 5.5	Pump Rate in L or G /min: 200
Sampling Time: 810	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: MW-1	Depth to Water (DTW) (ft): 6.44		Sample DTW (ft): 6.58
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ ft (DTB) - _____ ft (DTW) = _____ ft (Water Col)

80% of the water level: _____ ft (DTW) + (_____ ft (Water Col) X 0.2) = _____ ft (Recharge water level)

Estimated Purge Volume (EPV): = _____ ft (Water col) X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 855

Time (24 hrs)	Volume (G (L))	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
900	1.5	20.89	6.68	1274	7.03	Clear	None	1.56	340.2
905	2.5	20.87	6.58	1280	7.00	"	"	1.06	369.6
910	3.5	20.88	6.58	1279	7.00	"	"	0.96	379.8
915	4.5	20.89	6.58	1280	7.00	"	"	0.88	386.3
920	5.5	20.87	6.58	1280	6.99	"	"	0.85	388.2

Liters / Gallons Purged: 5.5

Pump Rate in L or G /min: 200

Sampling Time: 920

Duplicate Sample ID: **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. McLaughlin	
Well ID: MW-2	Depth to Water (DTW) (ft): 6.56		Sample DTW (ft): 6.75
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ ft (DTB) - _____ ft (DTW) = _____ ft (Water Col)

80% of the water level: _____ ft (DTW) + (_____ ft (Water Col) X 0.2) = _____ ft (Recharge water level)

Estimated Purge Volume (EPV): = _____ ft (Water col) X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 1150

Time (24 hrs)	Volume (G / L)	Temp. (C / F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1155	1.5	21.61	6.80	1712	6.55	Clear	mod.	1.97	219.5
1200	2.5	22.14	6.75	1723	6.22	"	"	0.83	172.7
1205	3.5	22.05	6.75	1723	6.26	"	"	0.72	159.0
1210	4.5	22.02	6.75	1721	6.27	"	"	0.70	152.1
1215	5.5	21.95	6.75	1718	6.28	"	"	0.74	146.2

Liters / Gallons Purged: 5.5	Pump Rate in L or G /min: 200
Sampling Time: 1220	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: MW-3	Depth to Water (DTW) (ft): 6.21		Sample DTW (ft): 6.84
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ (DTB) ft - _____ (DTW) ft = _____ (Water Col) ft

80% of the water level: _____ (DTW) ft + (_____ (Water Col) ft X 0.2) = _____ (Recharge water level) ft

Estimated Purge Volume (EPV): = _____ (Water col) ft X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 930

Time (24 hrs)	Volume (G (L))	Temp. (°C) °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
935	1.5	21.49	6.98	622	6.96	Clear	Faint	1.17	394.2
940	2.5	21.84	6.88	624	6.85	"	"	1.40	414.6
945	3.5	22.58	6.90	624	6.96	"	"	0.80	418.5
950	4.0	22.77	6.85	625	6.96	"	"	0.98	424.4
955	4.5	22.98	6.84	626	6.96	"	"	0.99	427.4

Liters / Gallons Purged: 4.5 (L)

Pump Rate in L or G /min: 150

Sampling Time: 1000

Duplicate Sample ID: **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes:

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: MW-4	Depth to Water (DTW) (ft): 5.81		Sample DTW (ft): 5.98
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ ft (DTB) - _____ ft (DTW) = _____ ft (Water Col)

80% of the water level: _____ ft (DTW) + (_____ ft (Water Col) X 0.2) = _____ ft (Recharge water level)

Estimated Purge Volume (EPV): = _____ ft (Water col) X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 815

Time (24 hrs)	Volume (G / (L))	Temp. ((°C) / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
820	1.5	19.43	6.07	1083	6.71	Clear	Mod.	1.64	181.0
825	2.5	19.50	5.97	1080	6.66	"	"	0.63	196.3
830	3.5	19.51	5.98	1079	6.67	"	"	0.56	169.2
835	4.5	19.55	5.98	1080	6.67	"	"	0.53	155.8
840	5.5	19.56	5.98	1081	6.67	"	"	0.53	149.3

Liters / Gallons Purged: 5.5	Pump Rate in L or G /min: 200
Sampling Time: 840	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: POBS-A1	Depth to Water (DTW) (ft): 6.70		Sample DTW (ft):
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 1		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ ft (DTB) - _____ ft (DTW) = _____ ft (Water Col)

80% of the water level: _____ ft (DTW) + (_____ ft (Water Col) X 0.2) = _____ ft (Recharge water level)

Estimated Purge Volume (EPV): = _____ ft (Water col) X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 1115

Time (24 hrs)	Volume (G / L)	Temp. (C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1120	1.0	22.58	7.25	1133	6.36	Clear	Mod.	0.74	282.7
1125	2.5	23.93	7.15	1328	6.06	"	"	0.55	272.4
1130	3.5	24.06	7.25	1371	6.14	"	"	0.45	246.0
1135	4.0	24.42	7.18	1383	6.21	"	"	0.49	227.6
1140	4.5	24.94	7.15	1426	6.26	"	"	0.49	210.3

Liters / Gallons Purged: 4.5

Pump Rate in L or G /min: 100

Sampling Time: 1140

Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes:

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: POBS-B1	Depth to Water (DTW) (ft): 6.84		Sample DTW (ft): 6.98
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 1"		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ ft (DTB) - _____ ft (DTW) = _____ ft (Water Col)

80% of the water level: _____ ft (DTW) + (_____ ft (Water Col) X 0.2) = _____ ft (Recharge water level)

Estimated Purge Volume (EPV): = _____ ft (Water col) X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 1040

Time (24 hrs)	Volume (G (L))	Temp. (C) °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1045	1.0	22.10	7.30	1351	6.42	Clear	Faint	2.44	360.2
1050	1.5	22.87	7.10	1364	6.06	"	"	0.88	416.4
1055	2.0	23.09	7.02	1366	6.23	"	"	0.78	433.1
1100	2.5	23.77	7.00	1366	6.31	"	"	0.74	438.2
1105	3.0	23.93	6.98	1366	6.42	"	"	0.74	436.6

Liters / Gallons Purged: —

Pump Rate in L or G /min: 100

Sampling Time: 1110

Duplicate Sample ID: **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 4/27/15
Site Location: San Lorenzo		Sampler(s): C. Molenkopf	
Well ID: POBS-B2	Depth to Water (DTW) (ft): 6.18		Sample DTW (ft): 7.77
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft):	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

Length of the water column: _____ ft (DTB) - _____ ft (DTW) = _____ ft (Water Col)

80% of the water level: _____ ft (DTW) + (_____ ft (Water Col) X 0.2) = _____ ft (Recharge water level)

Estimated Purge Volume (EPV): = _____ ft (Water col) X _____ (gal/lin. ft.) X 3 (Casing Volumes) = _____ Gallons

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter.	I.D	gal/linear ft.
1.25	1.38	0.08
2	**2.067**	**0.17**
3	3.068	0.38
4	**4.026**	**0.66**
6	6.065	1.5
8	7.981	2.6
10	10.02	4.12
12	11.938	5.81

Purging Equipment:
- ( ) _____ Bailer
- ( ) Disposable Bailer
- ( ) Electric Submergible Pump
- (X) Peristaltic Pump
- ( ) Other:_____

Sampling Equipment:
- ( ) _____ Bailer
- (X) Pump Discharge
- ( ) Disposable Bailer
- ( ) Peristaltic Pump & Dedicated Tubing
- ( ) Other:_____

Type of Water Quality Kit Used:
- (X) YSI 556
- ( ) Myron L
- ( ) Horriba
- ( ) Hanna
- ( ) Other:_____

Begin Purge at 1005

Time (24 hrs)	Volume (G / (L))	Temp. ((C) °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1010	1.5	21.62	9.18	830	6.47	Clear	Faint	2.79	386.9
1015	2.5	22.41	8.52	784	6.01	"	"	1.91	427.0
1020	3.5	23.66	7.95	1092	6.63	"	"	0.89	388.8
1025	4.5	23.68	7.79	1155	6.70	"	"	0.69	390.8
1030	5.5	23.71	7.77	1161	6.71	"	"	0.66	387.1

Liters / Gallons Purged: 5.5 **Pump Rate in L or G /min:** 200

Sampling Time: 1030 **Duplicate Sample ID:** **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TPH-g, BTEX, MTBE	HCl	3 X 40 mL VOAs
( ) TPH-d & TPH-mo	HCl	2 x 0.5 L Ambers
( ) NO_2, NO_3 & SO_4	None	1 X 500 mL Poly
( ) Total Manganese	HNO_3	1 X 250 mL Poly
( ) Dissolved Iron	Field-filtered, HNO_3	1 X 250 mL Poly
( ) Ferrous Iron	HCl	2 X Amber VOAs
( ) SVOCs	None	2 x 1 L Ambers

Duplicate Sample Analyzed For: SEE WORK ORDER

(√) Analyte(s):	Preservative:	Bottles:
(X) TOC	H_2SO_4	2 X 40 mL Amber VOAs
( ) Methane	HCl	3 X 40 mL VOAs
( ) Naphthalene, Phenol	None	2 x 1 L Ambers
( ) Alkalinity, TDS	None	1 X 500 mL Poly
( ) Phosphorus, TKN	H_2SO_4	1 x 500 mL Poly
( ) VOCs	HCl	3 X 40 mL VOAs
( ) Other _____		

Notes:

EQUIPCO RENTALS

YSI 556MPS RENTAL
CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: NDG

DATE: 04.24.15

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-556. 15
SERIAL#: 02D0577AB
CUSTOMER. STANTEC

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. CONDUCTIVITY	1000 µMhos	✓	41390
2. pH ZERO	pH 7	✓	41004
3. pH SLOPE	pH 4	✓	41005
pH SLOPE	pH 10	✓	40890
4. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	✓	N/A
5. REDOX (ORP)	232 mV (YSI Zobell solution)	✓	040615

2100 Meridian Park Boulevard, Concord, CA. 94520 Phone (925) 609-1088 Fax (925) 609-1080

APPENDIX E
SOIL BORINGS AND WELL CONSTRUCTION LOGS

Stantec

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-1** PAGE 1 OF 1

DRILLING: STARTED **5/16/14** COMPLETED: **5/16/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		SM	**SILTY SAND** ; SM; 2.5Y 4/3 olive brown; fine-grained; medium dense; dry; 35% silt		0		
		MLS	**SANDY SILT** ; MLS; 2.5Y 4/2 dark grayish brown; fine-grained; low plasticity; stiff; dry; 30% sand		0		
		SP	**SAND** ; SP; 2.5Y 4/3 olive brown; fine-grained; loose; dry		0		
5		ML	**CLAYEY SILT WITH SAND** ; ML; 2.5Y 3/1 very dark gray; fine-grained; stiff; dry; 10% sand; 30% clay; rootholes present		0	5	
			Moist to wet; Perched water				
		CL	**SILTY CLAY** ; CL; 2.5Y 3/1 very dark gray; medium plasticity; stiff; dry; 30% silt				Neat Cement
			No Recovery				
10		CL	**CLAY TRACE SILT** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; very stiff; dry; 10% silt		0 1	10	
		CL	**CLAY** ; CL; 2.5Y 3/1 very dark gray; medium plasticity; very stiff; dry		0 0 0		
15			Exposed borehole up to 7', no water after 1 hour Borehole terminated at 15 feet.			15	

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-2** PAGE 1 OF 1

DRILLING: STARTED **5/19/14** COMPLETED: **5/20/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12.5** **5/19/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **7** **5/20/14** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		SW	**GRAVELLY SAND** ; SW; road base fill				
		CL	**SILTY CLAY** ; CL; 2.5Y 2.5/1 black; stiff; dry; slight HC odor; 30% silt		4		
		SP	**SAND TRACE GRAVEL** ; SP; 2.5Y 4/3 olive brown; fine-grained; loose; dry; 10% gravel				
		MLS	**SANDY SILT** ; MLS; 2.5Y 4/2 dark grayish brown; fine-grained; low plasticity; medium stiff; moist; 30% sand		0		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		0	5	
			Slight HC odor		3		Neat Cement
			Strong HC odor; hydrocarbon staining; Caliche nodules present		595		
10					588	10	
					489		
		ML	**CLAYEY SILT WITH SAND** ; ML; 10Y 4/1 dark greenish gray; medium plasticity; medium stiff; moist; moderate HC odor; hydrocarbon staining; 15%sand; 20% clay				
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; very stiff; dry; slight HC odor; 40% silt		6		
15						15	
			Exposed borehole up to 12', slow water, collected sample on 5/20 at 910 Borehole terminated at 15 feet.				

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-3** PAGE 1 OF 1

DRILLING: STARTED **5/19/14** COMPLETED: **5/20/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12.5** **5/19/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **6.8** **5/20/14** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		GP	**SANDY GRAVEL** ; GP; road base fill				
		SM	**SILTY SAND** ; SM; 2.5Y 4/2 dark grayish brown; fine-grained; medium dense; dry; 30% silt				
		ML	**CLAYEY SILT** ; ML; 2.5Y 4/3 light brown; low plasticity; stiff; dry; 30% clay				
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry			5	
			Strong HC odor				Neat Cement
			10Y 4/1 dark greenish gray; strong HC odor; hydrocarbon staining				
10						10	
		MLS	**SANDY SILT WITH CLAY** ; MLS; 10Y 4/1 dark greenish gray; fine-grained; medium plasticity; stiff; moist; moderate HC odor; 30% sand; 15% clay				
			2.5Y 4/2 dark grayish brown; slight HC odor				
15						15	
			Exposed borehole up to 12', quick water, sampled at 1400 Borehole terminated at 15 feet.				

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-4** PAGE 1 OF 1

DRILLING: STARTED **5/19/14** COMPLETED: **5/19/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12.3** **5/19/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		GP	**SANDY GRAVEL** ; GP; road base fill				
		MLS	**SANDY SILT** ; MLS; 10YR 4/2 dark grayish brown; fine-grained; non plastic; medium stiff; dry; 40% silt		0		
		SM	**SILTY SAND** ; SM; 2.5Y 4/2 dark grayish brown; fine-grained; medium dense; wet; 30% silt; water is perched		0		
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; stiff; moist; 30% silt		0		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		0	5	
			2.5Y 4/2 dark grayish brown; caliche nodules present		0		Neat Cement
10					0	10	
		ML	**CLAYEY SILT WITH SAND** ; ML; 2.5Y 4/4 olive brown; fine-grained; medium plasticity; stiff; moist; 15% sand; 25% clay		0		
15			Exposed borehole up to 12', slow water, sampled at 1300 Borehole terminated at 15 feet.		0	15	

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-5** PAGE 1 OF 1

DRILLING: STARTED **5/20/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12.3** **5/20/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		SM	**SILTY SAND** ; SM; 2.5Y 4/2 dark grayish brown; fine-grained; medium dense; dry; 30% silt		0		
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; stiff; moist; 30% clay		0		
		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry				
5					1	5	
			2.5Y 3/2 very dark grayish brown		1		Neat Cement
					1		
10					1	10	
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/3 olive brown; fine-grained; medium plasticity; stiff; moist to wet; 25% sand; 15% clay		1		
		CL	**SILTY CLAY** ; CL; 2.5Y 4/4 olive brown; medium plasticity; very stiff; dry; 30% silt		0		
15						15	
			Exposed borehole up to 12', quick water, sampled at 1040 Borehole terminated at 15 feet.				

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PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-6** PAGE 1 OF 1

DRILLING: STARTED **5/20/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **11.5** **5/20/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **6.5** **5/21/14** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		CL	**SILTY CLAY** ; CL; 5Y 4/1 dark gray; medium plasticity; very stiff; dry; 40% silt		0		
		SM	**SILTY SAND** ; SM; 2.5Y 5/3 light olive brown; fine-grained; medium dense; dry; 40% silt		0		
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; stiff; dry; 30% silt				
		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		1		
5						5	
					2		
					2		Neat Cement
			7-8.5' possible slight HC staining		2		
10					2	10	
		MLS	**SANDY SILT WITH CLAY** ; MLS; 10YR 4/3 brown; fine-grained; medium plasticity; stiff; moist; 30% sand; 15% clay		2		
		CL	**SILTY CLAY** ; CL; 10YR 5/4 yellowish brown; medium plasticity; very stiff; dry; 30% silt		2		
					1		
15						15	
			Exposed borehole up to 11', quick water, sampled at 1220 Borehole terminated at 15 feet.				

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-7** PAGE 1 OF 1

DRILLING: STARTED **5/20/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **11.5** **5/20/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **6** **5/21/14** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		SM	**SILTY SAND** ; SM; 2.5Y 5/3 light olive brown; fine-grained; medium dense; dry; 40% silt		0		
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; stiff; dry; 30% silt		0		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		0	5	
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; stiff; dry; 30% silt		0		Neat Cement
10		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/3 olive brown; fine-grained; medium plasticity; stiff; moist; 25% sand; 15% clay		0	10	
		CL	**SILTY CLAY** ; CL; 2.5Y 4/3 olive brown; medium plasticity; very stiff; dry; 30% silt		0		
15			Exposed borehole up to 10', slow water, sampled at 920 on 5/21 Borehole terminated at 15 feet.			15	

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-8** PAGE 1 OF 1

DRILLING: STARTED **5/21/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12 5/21/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; very stiff; dry; 30% silt				
		SM	**SILTY SAND** ; SM; 2.5Y 5/2 grayish brown; fine-grained; medium dense; dry; 25% silt		0		
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; stiff; dry; 30% silt		0		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry; caliche nodules present		0	5	
			2.5Y 3/2 very dark grayish brown; increased caliche nodules		0		Neat Cement
10					0	10	
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/2 dark grayish brown; fine-grained; medium plasticity; stiff; moist; 25% sand; 15% clay		0		
		CL	**SILTY CLAY** ; CL; 2.5Y 4/3 olive brown; medium plasticity; very stiff; dry; 30% silt		0		
15			Exposed borehole up to 12', slow water, sampled at 1320 Borehole terminated at 15 feet.			15	

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PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-9** PAGE 1 OF 1

DRILLING: STARTED **5/21/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12.25 5/21/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; very stiff; dry; 30% silt				
		SP	**SAND WITH SILT** ; SP; 2.5Y 5/2 grayish brown; fine-grained; loose; dry; 10% silt		0		
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; stiff; dry; 30% silt		0		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		0	5	
			2.5Y 3/2 very dark grayish brown; caliche nodules present		0		Neat Cement
10					0	10	
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/2 dark grayish brown; fine-grained; medium plasticity; stiff; moist; 30% sand; 10% clay		0		
		CL	**SILTY CLAY** ; CL; 2.5Y 4/3 olive brown; medium plasticity; very stiff; dry; 30% silt		0		
15			Exposed borehole up to 12', quick water, sampled at 1130 Borehole terminated at 15 feet.			15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-10** PAGE 1 OF 1

DRILLING: STARTED **5/21/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; very stiff; dry; 30% silt				
		SM	**SILTY SAND** ; SM; 2.5Y 5/2 grayish brown; fine-grained; medium dense; dry; 30% silt		0		
		CL	**SILTY CLAY** ; CL; 2.5Y 4/2 dark grayish brown; medium plasticity; stiff; dry; 30% silt		0		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry; some caliche nodules		0	5	
			2.5Y 3/2 very dark grayish brown; increased caliche nodules		0		Neat Cement
10		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/2 dark grayish brown; fine-grained; medium plasticity; stiff; moist; 25% sand; 15% clay		0	10	
		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		0		
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/2 dark grayish brown; fine-grained; medium plasticity; stiff; moist; 25% sand; 15% clay				
		CL	**SILTY CLAY** ; CL; 2.5Y 4/3 olive brown; medium plasticity; very stiff; dry; 30% silt		0		
15			Exposed borehole up to 10.5', no water after 2 hours Borehole terminated at 15 feet.			15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-11** PAGE 1 OF 1

DRILLING: STARTED **5/16/14** COMPLETED: **5/17/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **8** **5/16/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **6.7** **5/17/14** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		SM	**SILTY SAND** ; SM; 2.5Y 4/3 olive brown; fine-grained; medium dense; dry; 35% silt		0		
		ML	**CLAYEY SILT** ; ML; 2.5Y 4/2 dark grayish brown; medium plasticity; stiff; dry; 30% clay		1		
		MLS	**SANDY SILT** ; MLS; 2.5Y 4/3 olive brown; fine-grained; low plasticity; medium stiff; dry; 30% sand		1		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry; strong HC odor		522	5	
					104		
					2		Neat Cement
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 5/4 light olive brown; fine-grained; low plasticity; stiff; moist; no odor; 30% sand; 15% clay		2		
10			10Y 4/1 dark greenish gray; strong HC odor; hydrocarbon staining		272	10	
					429		
		CL	**CLAY WITH SILT** ; CL; 5Y 4/1 dark gray; medium plasticity; very stiff; dry; strong HC odor; 15% silt		511		
					471		
		CL	**SILTY CLAY** ; CL; 5Y 4/1 dark gray; medium plasticity; very stiff; dry; strong HC odor; 40% silt		407		
15			Exposed borehole up to 9', sampled water at 1300, HC sheen on water Borehole terminated at 15 feet.			15	

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-12** PAGE 1 OF 1

DRILLING: STARTED **5/16/14** COMPLETED: **5/16/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12 5/16/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		SW	**GRAVELLY SAND** ; SW; road base fill				
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/3 olive brown; low plasticity; stiff; dry; 30% silt		0		
		SM	**SILTY SAND** ; SM; 2.5Y 4/2 dark grayish brown; fine-grained; medium dense; wet; 30% silt; water is perched		0		
		CL	**SILTY CLAY** ; CL; 2.5Y 3/1 very dark gray; medium plasticity; stiff; dry; 30% silt		0		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		2	5	
					30		Neat Cement
			10Y 4/1 dark greenish gray; strong HC odor; hydrocarbon staining; caliche nodules		561		
10					537	10	
					547		
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 5/4 light olive brown; fine-grained; low plasticity; stiff; moist; moderate HC odor; hydrocarbon staining; 30% sand; 10% clay; staining in zones		404		
					3		
					1		
15			Exposed borehole up to 12', collected sample at 1040 Borehole terminated at 15 feet.			15	

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **HP-13** PAGE 1 OF 1

DRILLING: STARTED **5/19/14** COMPLETED: **5/19/14**
INSTALLATION: STARTED COMPLETED:
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Dual Wall DP**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Continuous Core**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **12 5/19/14** BOREHOLE DEPTH (ft): **15.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **---**
WELL CASING DIAMETER (in): **---** BOREHOLE DIAMETER (in): **4**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Asphalt				
		SW	**GRAVELLY SAND** ; SW; road base fill				
		MLS	**SANDY SILT WITH CLAY** ; MLS; 10YR 4/2 dark grayish brown; fine-grained; non plastic; medium stiff; dry; 40% sand		0		
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; stiff; moist; 30% silt		0 1		
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		1	5	
					0		
					0		
			2.5Y 4/2 dark grayish brown; caliche nodules		1		Neat Cement
10					0	10	
		CL	**SILTY CLAY** ; CL; 2.5Y 4/3 olive brown; medium plasticity; stiff; dry; 30% silt		1		
		ML	**CLAYEY SILT WITH SAND** ; ML; 2.5Y 5/4 light olive brown; medium plasticity; stiff; moist; 15% sand; 25% clay		33 24		
15			Exposed borehole up to 12', collected sample at 1130 Borehole terminated at 15 feet.			15	

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-11** PAGE 1 OF 1

Stantec

DRILLING: STARTED **5/19/14** COMPLETED: **5/19/14**
INSTALLATION: STARTED **5/19/14** COMPLETED: **5/19/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **8.5** **5/19/14** BOREHOLE DEPTH (ft): **10.5**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		GM	**SILTY GRAVEL WITH SAND** ; GM; Excavation Backfill				Hydrated Bentonite
5						5	Dry Bentonite
							Stainless Steel Vapor Point
							#2.5 Sand
		GP	**GRAVEL** ; GP; wet; Pea Gravel			▽	
		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry; slight HC odor		2		
10			Moderate HC odor; hydrocarbon staining		97	10	Hydrated Bentonite
			Borehole terminated at 10.5 feet.		189		
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-12** PAGE 1 OF 1

DRILLING: STARTED **5/20/14** COMPLETED: **5/20/14**
INSTALLATION: STARTED **5/20/14** COMPLETED: **5/20/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		GM	**SILTY GRAVEL** ; GM; Excavation Backfill		0		Hydrated Bentonite
					0		Dry Bentonite
5					0	5	Stainless Steel Vapor Point #2.5 Sand
		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry; slight HC odor		3		
			Strong HC odor		693		Hydrated Bentonite
			Strong HC odor		701		
10			Borehole terminated at 10 feet.			10	
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-13** PAGE 1 OF 1

Stantec

DRILLING: STARTED **5/21/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED **5/21/14** COMPLETED: **5/21/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **7.5** **5/21/14** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				Hydrated Bentonite
		GM	**SILTY GRAVEL WITH SAND** ; GM; Excavation Backfill				
5			At 5.5' geotextile over pea gravel		0	5	Dry Bentonite
		GP	**GRAVEL** ; GP; Pea Gravel - Former UST backfill		0		Stainless Steel Vapor Point #2.5 Sand
			Wet		0		
			No Recovery - Soft; driller reports end of gravels				Hydrated Bentonite
10		CL	**CLAY** ; CL; 10Y 4/1 dark greenish gray; medium plasticity; very stiff; dry; strong HC odor; hydrocarbon staining; 30% silt; caliche nodules		414	10	
			Borehole terminated at 11 feet.		466		
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-14** PAGE 1 OF 1

DRILLING: STARTED **5/16/14** COMPLETED: **5/16/14**
INSTALLATION: STARTED **5/16/14** COMPLETED: **5/16/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)
			Asphalt			
		GM	**SILTY GRAVEL** ; GM; Excavation Backfill			
		MLS	**SANDY SILT WITH CLAY** ; MLS; 2.5Y 4/2 dark grayish brown; fine-grained; low plasticity; stiff; dry; moderate HC odor; 35% sand; 10% clay		175	
		CL	**CLAY WITH SILT** ; CL; 5Y 3/1 very dark gray; medium plasticity; stiff; dry; 10% silt			
5		CL	**CLAY** ; CL; 5Y 2.5/1 black; medium plasticity; very stiff; dry; slight HC odor		23	5
			Strong HC odor			
			Caliche nodules		853	
					743	
					675	
			5Y 3/2 dark olive gray; strong HC odor; hydrocarbon staining			
					552	
10			Strong HC odor Borehole terminated at 10 feet.		543	10
15						15

Well Construction: Hydrated Bentonite; Dry Bentonite; Stainless Steel Vapor Point; #2.5 Sand; Hydrated Bentonite

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-5** PAGE 1 OF 1

DRILLING: STARTED **5/22/14** COMPLETED: **5/22/14**
INSTALLATION: STARTED **5/22/14** COMPLETED: **5/22/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; very stiff; dry; 25% silt		0		Hydrated Bentonite
		SM	**SILTY SAND** ; SM; 10YR 4/2 brown; fine-grained; medium dense; dry; 30% silt		0		Dry Bentonite
5					0	5	Stainless Steel Vapor Point #2.5 Sand
		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry		0		
			10Y 4/1 dark greenish gray; strong HC odor; hydrocarbon staining		466		Hydrated Bentonite
10			Borehole terminated at 10 feet.			10	
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-6** PAGE 1 OF 1

DRILLING: STARTED **5/21/14** COMPLETED: **5/21/14**
INSTALLATION: STARTED **5/21/14** COMPLETED: **5/21/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		GC	**CLAYEY GRAVEL WITH SILT AND SAND** ; GC; dry; Excavation Backfill				
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; very stiff; dry; 25% silt		0		Hydrated Bentonite
					1		
		MLS	**SANDY SILT WITH CLAY** ; MLS; 10YR 3/2 very dark grayish brown; fine-grained; low plasticity; stiff; dry; 30% sand; 10% clay				Dry Bentonite
					2		
5		SM	**SILTY SAND** ; SM; 10YR 4/2 brown; fine-grained; medium dense; dry; 30% silt		2	5	Stainless Steel Vapor Point #2.5 Sand
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; stiff; moist; 40% silt		1		
		CL	**CLAY** ; CL; 10YR 3/1 very dark gray; medium plasticity; very stiff; dry		1		
					1		Hydrated Bentonite
			Slight HC odor		7		
10			Borehole terminated at 10 feet.			10	
15						15	

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-7** PAGE 1 OF 1

DRILLING: STARTED **5/22/14** COMPLETED: **5/22/14**
INSTALLATION: STARTED **5/22/14** COMPLETED: **5/22/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **7** **5/22/14** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		GM	**SILTY GRAVEL WITH SAND** ; GM; Excavation Backfill		0		Hydrated Bentonite
		MLS	**SANDY SILT WITH GRAVEL AND CLAY** ; MLS; 10YR 3/4 dark yellowish brown; low plasticity; stiff; dry; 15% gravel; 25% sand; 10% clay; gravel is broken sandstone - Old Fill		0		Dry Bentonite
5					1	5	Stainless Steel Vapor Point #2.5 Sand
			Concrete		1		
		SP	**SAND WITH SILT** ; SP; 10Y 4/1 dark greenish gray; fine-grained; loose; wet; moderate HC odor; 10% silt		92	▽	
			No recovery - sand flowed out of sampler				Hydrated Bentonite
10			Borehole terminated at 10 feet.			10	
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-8** PAGE 1 OF 1

DRILLING: STARTED **5/22/14** COMPLETED: **5/22/14**
INSTALLATION: STARTED **5/22/14** COMPLETED: **5/22/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		GM	**SILTY GRAVEL WITH SAND** ; GM; Excavation Backfill		0		Hydrated Bentonite
					0		Dry Bentonite
5						5	Stainless Steel Vapor Point #2.5 Sand
		MLS	**SANDY SILT WITH GRAVEL AND CLAY** ; MLS; 10YR 3/4 dark yellowish brown; fine-grained; low plasticity; stiff; dry; 15% gravel; 25% sand; 10% clay; gravel is broken sandstone - Old Fill		0		
					20		
		CL	**CLAY** ; CL; 2.5Y 3/1 very dark gray; medium plasticity; very stiff; dry; strong HC odor		485		Hydrated Bentonite
			10Y 4/1 dark greenish gray; strong HC odor; hydrocarbon staining		602		
10			Borehole terminated at 10 feet.			10	
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-9** PAGE 1 OF 1

DRILLING: STARTED **5/20/14** COMPLETED: **5/20/14**
INSTALLATION: STARTED **5/20/14** COMPLETED: **5/20/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.3**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		GM	**SILTY GRAVEL WITH SAND** ; GM; Excavation Backfill		0		Hydrated Bentonite
					0		
		CL	**SILTY CLAY** ; CL; 10YR 3/2 very dark grayish brown; medium plasticity; stiff; dry; 40% silt		0		Dry Bentonite
5		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry; slight HC odor		19	5	Stainless Steel Vapor Point #2.5 Sand
		CL	**SILTY CLAY** ; CL; 10Y 4/1 dark greenish gray; medium plasticity; very stiff; dry; moderate HC odor; hydrocarbon staining; 30% silt; caliche nodules		597		Hydrated Bentonite
10			Borehole terminated at 10 feet.			10	
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

PROJECT: **Bohannon**
LOCATION: **575 Paseo Grande, San Lorenzo CA**
PROJECT NUMBER: **185702848**

WELL / PROBEHOLE / BOREHOLE NO: **SV-10** PAGE 1 OF 1

Stantec

DRILLING: STARTED **5/19/14** COMPLETED: **5/19/14**
INSTALLATION: STARTED **5/19/14** COMPLETED: **5/19/14**
DRILLING COMPANY: **Gregg Drilling**
DRILLING EQUIPMENT: **Geoprobe**
DRILLING METHOD: **Direct Push**
SAMPLING EQUIPMENT: **Macrocore**

NORTHING (ft): EASTING (ft):
LATITUDE: LONGITUDE:
GROUND ELEV (ft): TOC ELEV (ft):
INITIAL DTW (ft): **Not Encountered** BOREHOLE DEPTH (ft): **10.0**
STATIC DTW (ft): **Not Encountered** WELL DEPTH (ft): **5.0**
WELL CASING DIAMETER (in): **.25** BOREHOLE DIAMETER (in): **2.5**
LOGGED BY: **C. Melancon** CHECKED BY: **Eva Hey**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Headspace PID (units)	Depth (feet)	Well Construction
			Asphalt				
		GM	**SILTY GRAVEL WITH SAND** ; GM; Excavation Backfill				Hydrated Bentonite
5						5	Dry Bentonite
		GP	**GRAVEL** ; GP; dry; Pea Gravel		0		Stainless Steel Vapor Point #2.5 Sand
		CL	**CLAY** ; CL; 2.5Y 2.5/1 black; medium plasticity; very stiff; dry; slight HC odor		54		
			No Recovery				Hydrated Bentonite
10			Borehole terminated at 10 feet.			10	
15						15	

GEO FORM 304 LOGS.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 6/16/14

APPENDIX F
LABORATORY ANALYTICAL REPORTS

Stantec

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54312-1
Client Project/Site: Bohannon San Lorenzo

For:
Stantec Consulting Corp.
1340 Treat Blvd
Suite 300
Walnut Creek, California 94597

Attn: Mr. Chris Maxwell

Authorized for release by:
12/18/2013 2:51:22 PM
Dimple Sharma, Senior Project Manager
dimple.sharma@testamericainc.com

Designee for

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54312-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54312-1

Comments
No additional comments.

Receipt
The samples were received on 12/12/2013 12:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

GC/MS VOA
No analytical or quality issues were noted.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: TB-1 — Lab Sample ID: 720-54312-1

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 720-54312-2

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 720-54312-3

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 720-54312-4

No Detections.

Client Sample ID: NOBS-B1 — Lab Sample ID: 720-54312-5

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 720-54312-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	190		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	3.3		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	17		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	16		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	6900		250		ug/L	5		8260B/CA_LUFT MS	Total/NA

Client Sample ID: POBS-B2 — Lab Sample ID: 720-54312-7

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 720-54312-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	110		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: POBS-B1 — Lab Sample ID: 720-54312-9

No Detections.

Client Sample ID: POBS-A1 — Lab Sample ID: 720-54312-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1200		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Toluene	28		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: POBS-A1 (Continued) — Lab Sample ID: 720-54312-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	15		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2600		500		ug/L	10		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 720-54312-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	410		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 720-54312-12

No Detections.

Client Sample ID: DUP — Lab Sample ID: 720-54312-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	240		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	4.2		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	22		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	20		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	7700		250		ug/L	5		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: TB-1
Date Collected: 12/11/13 11:00
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/13/13 19:18	1
Ethylbenzene	ND		0.50		ug/L			12/13/13 19:18	1
Toluene	ND		0.50		ug/L			12/13/13 19:18	1
Xylenes, Total	ND		1.0		ug/L			12/13/13 19:18	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/13/13 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*67 - 130*		*12/13/13 19:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*		*12/13/13 19:18*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/13/13 19:18*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: MW-7
Date Collected: 12/11/13 11:50
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/13/13 19:47	1
Ethylbenzene	ND		0.50		ug/L			12/13/13 19:47	1
Toluene	ND		0.50		ug/L			12/13/13 19:47	1
Xylenes, Total	ND		1.0		ug/L			12/13/13 19:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/13/13 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*12/13/13 19:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*12/13/13 19:47*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/13/13 19:47*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: MW-6
Date Collected: 12/11/13 12:30
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/13/13 21:15	1
Ethylbenzene	ND		0.50		ug/L			12/13/13 21:15	1
Toluene	ND		0.50		ug/L			12/13/13 21:15	1
Xylenes, Total	ND		1.0		ug/L			12/13/13 21:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/13/13 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*67 - 130*		*12/13/13 21:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*12/13/13 21:15*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/13/13 21:15*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: MW-5
Date Collected: 12/11/13 13:10
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/13/13 21:45	1
Ethylbenzene	ND		0.50		ug/L			12/13/13 21:45	1
Toluene	ND		0.50		ug/L			12/13/13 21:45	1
Xylenes, Total	ND		1.0		ug/L			12/13/13 21:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/13/13 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*12/13/13 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*		*12/13/13 21:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/13/13 21:45*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: NOBS-B1
Date Collected: 12/11/13 14:00
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/13/13 22:14	1
Ethylbenzene	ND		0.50		ug/L			12/13/13 22:14	1
Toluene	ND		0.50		ug/L			12/13/13 22:14	1
Xylenes, Total	ND		1.0		ug/L			12/13/13 22:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/13/13 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*12/13/13 22:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*12/13/13 22:14*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/13/13 22:14*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: MW-4
Date Collected: 12/11/13 14:40
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	190		2.5		ug/L			12/13/13 22:43	5
Ethylbenzene	3.3		2.5		ug/L			12/13/13 22:43	5
Toluene	17		2.5		ug/L			12/13/13 22:43	5
Xylenes, Total	16		5.0		ug/L			12/13/13 22:43	5
Gasoline Range Organics (GRO) -C5-C12	6900		250		ug/L			12/13/13 22:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*67 - 130*		*12/13/13 22:43*	*5*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 130*		*12/13/13 22:43*	*5*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/13/13 22:43*	*5*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: POBS-B2
Date Collected: 12/12/13 08:10
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/13/13 23:13	1
Ethylbenzene	ND		0.50		ug/L			12/13/13 23:13	1
Toluene	ND		0.50		ug/L			12/13/13 23:13	1
Xylenes, Total	ND		1.0		ug/L			12/13/13 23:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/13/13 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*12/13/13 23:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*		*12/13/13 23:13*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/13/13 23:13*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: MW-3
Date Collected: 12/12/13 08:50
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.0**		0.50		ug/L			12/16/13 22:53	1
Ethylbenzene	ND		0.50		ug/L			12/16/13 22:53	1
Toluene	ND		0.50		ug/L			12/16/13 22:53	1
Xylenes, Total	ND		1.0		ug/L			12/16/13 22:53	1
Gasoline Range Organics (GRO) -C5-C12	**110**		50		ug/L			12/16/13 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*12/16/13 22:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*12/16/13 22:53*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/16/13 22:53*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: POBS-B1
Date Collected: 12/12/13 09:30
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/16/13 23:19	1
Ethylbenzene	ND		0.50		ug/L			12/16/13 23:19	1
Toluene	ND		0.50		ug/L			12/16/13 23:19	1
Xylenes, Total	ND		1.0		ug/L			12/16/13 23:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/16/13 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*67 - 130*		*12/16/13 23:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*72 - 130*		*12/16/13 23:19*	*1*
Toluene-d8 (Surr)	*123*		*70 - 130*		*12/16/13 23:19*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: POBS-A1
Date Collected: 12/12/13 10:10
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1200**		5.0		ug/L			12/16/13 23:45	10
Ethylbenzene	ND		5.0		ug/L			12/16/13 23:45	10
Toluene	**28**		5.0		ug/L			12/16/13 23:45	10
Xylenes, Total	**15**		10		ug/L			12/16/13 23:45	10
Gasoline Range Organics (GRO) -C5-C12	**2600**		500		ug/L			12/16/13 23:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*12/16/13 23:45*	*10*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*12/16/13 23:45*	*10*
Toluene-d8 (Surr)	*93*		*70 - 130*		*12/16/13 23:45*	*10*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: MW-2
Date Collected: 12/12/13 10:50
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-11
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**20**		0.50		ug/L			12/17/13 00:11	1
Ethylbenzene	ND		0.50		ug/L			12/17/13 00:11	1
Toluene	**1.1**		0.50		ug/L			12/17/13 00:11	1
Xylenes, Total	ND		1.0		ug/L			12/17/13 00:11	1
Gasoline Range Organics (GRO) -C5-C12	**410**		50		ug/L			12/17/13 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*67 - 130*		*12/17/13 00:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*12/17/13 00:11*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*12/17/13 00:11*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: MW-1
Date Collected: 12/12/13 11:30
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-12
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/17/13 00:36	1
Ethylbenzene	ND		0.50		ug/L			12/17/13 00:36	1
Toluene	ND		0.50		ug/L			12/17/13 00:36	1
Xylenes, Total	ND		1.0		ug/L			12/17/13 00:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/17/13 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*12/17/13 00:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*12/17/13 00:36*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/17/13 00:36*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: DUP
Date Collected: 12/11/13 00:00
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-13
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	240		2.5		ug/L			12/17/13 14:24	5
Ethylbenzene	4.2		2.5		ug/L			12/17/13 14:24	5
Toluene	22		2.5		ug/L			12/17/13 14:24	5
Xylenes, Total	20		5.0		ug/L			12/17/13 14:24	5
Gasoline Range Organics (GRO) -C5-C12	7700		250		ug/L			12/17/13 14:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*123*		*67 - 130*		*12/17/13 14:24*	*5*
1,2-Dichloroethane-d4 (Surr)	*120*		*72 - 130*		*12/17/13 14:24*	*5*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/17/13 14:24*	*5*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-150067/5
Matrix: Water
Analysis Batch: 150067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/13/13 16:51	1
Ethylbenzene	ND		0.50		ug/L			12/13/13 16:51	1
Toluene	ND		0.50		ug/L			12/13/13 16:51	1
Xylenes, Total	ND		1.0		ug/L			12/13/13 16:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/13/13 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*67 - 130*		*12/13/13 16:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*12/13/13 16:51*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*12/13/13 16:51*	*1*

Lab Sample ID: LCS 720-150067/6
Matrix: Water
Analysis Batch: 150067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.8		ug/L		107	79 - 130
Ethylbenzene	25.0	27.4		ug/L		109	80 - 120
Toluene	25.0	27.0		ug/L		108	78 - 120
m-Xylene & p-Xylene	50.0	54.3		ug/L		109	70 - 142
o-Xylene	25.0	27.7		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCS 720-150067/8
Matrix: Water
Analysis Batch: 150067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	525		ug/L		105	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-150067/7
Matrix: Water
Analysis Batch: 150067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	26.8		ug/L		107	79 - 130	0	20
Ethylbenzene	25.0	26.4		ug/L		106	80 - 120	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-150067/7
Matrix: Water
Analysis Batch: 150067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	26.4		ug/L		105	78 - 120	2	20
m-Xylene & p-Xylene			50.0	52.4		ug/L		105	70 - 142	4	20
o-Xylene			25.0	27.0		ug/L		108	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 720-150067/9
Matrix: Water
Analysis Batch: 150067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	537		ug/L		107	62 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: 720-54312-2 MS
Matrix: Water
Analysis Batch: 150067

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.5		ug/L		106	60 - 140
Ethylbenzene	ND		25.0	26.4		ug/L		106	60 - 140
Toluene	ND		25.0	26.4		ug/L		106	60 - 140
m-Xylene & p-Xylene	ND		50.0	52.5		ug/L		105	60 - 140
o-Xylene	ND		25.0	26.8		ug/L		107	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: 720-54312-2 MSD
Matrix: Water
Analysis Batch: 150067

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	26.8		ug/L		107	60 - 140	1	20
Ethylbenzene	ND		25.0	26.4		ug/L		106	60 - 140	0	20
Toluene	ND		25.0	26.4		ug/L		106	60 - 140	0	20
m-Xylene & p-Xylene	ND		50.0	52.4		ug/L		105	60 - 140	0	20
o-Xylene	ND		25.0	26.8		ug/L		107	60 - 140	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-54312-2 MSD
Matrix: Water
Analysis Batch: 150067

Client Sample ID: MW-7
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 720-150132/5
Matrix: Water
Analysis Batch: 150132

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/16/13 18:35	1
Ethylbenzene	ND		0.50		ug/L			12/16/13 18:35	1
Toluene	ND		0.50		ug/L			12/16/13 18:35	1
Xylenes, Total	ND		1.0		ug/L			12/16/13 18:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/16/13 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*67 - 130*		*12/16/13 18:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*		*12/16/13 18:35*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/16/13 18:35*	*1*

Lab Sample ID: LCS 720-150132/6
Matrix: Water
Analysis Batch: 150132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.8		ug/L		103	79 - 130
Ethylbenzene	25.0	26.9		ug/L		107	80 - 120
Toluene	25.0	20.7		ug/L		83	78 - 120
m-Xylene & p-Xylene	50.0	53.7		ug/L		107	70 - 142
o-Xylene	25.0	27.8		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*81*		*70 - 130*

Lab Sample ID: LCS 720-150132/8
Matrix: Water
Analysis Batch: 150132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	468		ug/L		94	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*67 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-150132/8
Matrix: Water
Analysis Batch: 150132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 720-150132/7
Matrix: Water
Analysis Batch: 150132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	25.4		ug/L		101	79 - 130	2	20
Ethylbenzene			25.0	24.1		ug/L		97	80 - 120	11	20
Toluene			25.0	24.4		ug/L		98	78 - 120	16	20
m-Xylene & p-Xylene			50.0	51.1		ug/L		102	70 - 142	5	20
o-Xylene			25.0	26.9		ug/L		108	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*
Toluene-d8 (Surr)	*81*		*70 - 130*

Lab Sample ID: LCSD 720-150132/9
Matrix: Water
Analysis Batch: 150132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	472		ug/L		94	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 720-150209/4
Matrix: Water
Analysis Batch: 150209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			12/17/13 09:17	1
Ethylbenzene	ND		0.50		ug/L			12/17/13 09:17	1
Toluene	ND		0.50		ug/L			12/17/13 09:17	1
Xylenes, Total	ND		1.0		ug/L			12/17/13 09:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			12/17/13 09:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*106*		*67 - 130*		*12/17/13 09:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*12/17/13 09:17*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-150209/4
Matrix: Water
Analysis Batch: 150209

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		12/17/13 09:17	1

Lab Sample ID: LCS 720-150209/5
Matrix: Water
Analysis Batch: 150209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	25.4		ug/L		102	79 - 130		
Ethylbenzene			25.0	27.1		ug/L		108	80 - 120		
Toluene			25.0	25.5		ug/L		102	78 - 120		
m-Xylene & p-Xylene			50.0	54.2		ug/L		108	70 - 142		
o-Xylene			25.0	27.9		ug/L		112	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 720-150209/7
Matrix: Water
Analysis Batch: 150209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	525		ug/L		105	62 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	108		67 - 130
1,2-Dichloroethane-d4 (Surr)	113		72 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 720-150209/6
Matrix: Water
Analysis Batch: 150209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	25.5		ug/L		102	79 - 130	0	20
Ethylbenzene			25.0	25.6		ug/L		102	80 - 120	6	20
Toluene			25.0	26.3		ug/L		105	78 - 120	3	20
m-Xylene & p-Xylene			50.0	50.3		ug/L		101	70 - 142	7	20
o-Xylene			25.0	25.5		ug/L		102	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	103		72 - 130
Toluene-d8 (Surr)	102		70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-150209/8
Matrix: Water
Analysis Batch: 150209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	506		ug/L		101	62 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

GC/MS VOA

Analysis Batch: 150067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54312-1	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-2	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-2 MS	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-2 MSD	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-3	MW-6	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-5	NOBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-6	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-7	POBS-B2	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-150067/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-150067/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-150067/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-150067/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-150067/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 150132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54312-8	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-9	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-10	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-11	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-54312-12	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-150132/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-150132/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-150132/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-150132/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-150132/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 150209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54312-13	DUP	Total/NA	Water	8260B/CA_LUFT MS	

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

GC/MS VOA (Continued)

Analysis Batch: 150209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-150209/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-150209/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-150209/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-150209/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-150209/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: TB-1 — Lab Sample ID: 720-54312-1

Date Collected: 12/11/13 11:00 — **Matrix: Water**
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150067	12/13/13 19:18	PDR	TAL PLS

Client Sample ID: MW-7 — Lab Sample ID: 720-54312-2

Date Collected: 12/11/13 11:50 — **Matrix: Water**
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150067	12/13/13 19:47	PDR	TAL PLS

Client Sample ID: MW-6 — Lab Sample ID: 720-54312-3

Date Collected: 12/11/13 12:30 — **Matrix: Water**
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150067	12/13/13 21:15	PDR	TAL PLS

Client Sample ID: MW-5 — Lab Sample ID: 720-54312-4

Date Collected: 12/11/13 13:10 — **Matrix: Water**
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150067	12/13/13 21:45	PDR	TAL PLS

Client Sample ID: NOBS-B1 — Lab Sample ID: 720-54312-5

Date Collected: 12/11/13 14:00 — **Matrix: Water**
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150067	12/13/13 22:14	PDR	TAL PLS

Client Sample ID: MW-4 — Lab Sample ID: 720-54312-6

Date Collected: 12/11/13 14:40 — **Matrix: Water**
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	150067	12/13/13 22:43	PDR	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: POBS-B2
Lab Sample ID: 720-54312-7
Date Collected: 12/12/13 08:10
Matrix: Water
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150067	12/13/13 23:13	PDR	TAL PLS

Client Sample ID: MW-3
Lab Sample ID: 720-54312-8
Date Collected: 12/12/13 08:50
Matrix: Water
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150132	12/16/13 22:53	ASC	TAL PLS

Client Sample ID: POBS-B1
Lab Sample ID: 720-54312-9
Date Collected: 12/12/13 09:30
Matrix: Water
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150132	12/16/13 23:19	ASC	TAL PLS

Client Sample ID: POBS-A1
Lab Sample ID: 720-54312-10
Date Collected: 12/12/13 10:10
Matrix: Water
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	150132	12/16/13 23:45	ASC	TAL PLS

Client Sample ID: MW-2
Lab Sample ID: 720-54312-11
Date Collected: 12/12/13 10:50
Matrix: Water
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150132	12/17/13 00:11	ASC	TAL PLS

Client Sample ID: MW-1
Lab Sample ID: 720-54312-12
Date Collected: 12/12/13 11:30
Matrix: Water
Date Received: 12/12/13 12:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	150132	12/17/13 00:36	ASC	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Client Sample ID: DUP
Date Collected: 12/11/13 00:00
Date Received: 12/12/13 12:50

Lab Sample ID: 720-54312-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	150209	12/17/13 14:24	YYB	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-54312-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54312-1	TB-1	Water	12/11/13 11:00	12/12/13 12:50
720-54312-2	MW-7	Water	12/11/13 11:50	12/12/13 12:50
720-54312-3	MW-6	Water	12/11/13 12:30	12/12/13 12:50
720-54312-4	MW-5	Water	12/11/13 13:10	12/12/13 12:50
720-54312-5	NOBS-B1	Water	12/11/13 14:00	12/12/13 12:50
720-54312-6	MW-4	Water	12/11/13 14:40	12/12/13 12:50
720-54312-7	POBS-B2	Water	12/12/13 08:10	12/12/13 12:50
720-54312-8	MW-3	Water	12/12/13 08:50	12/12/13 12:50
720-54312-9	POBS-B1	Water	12/12/13 09:30	12/12/13 12:50
720-54312-10	POBS-A1	Water	12/12/13 10:10	12/12/13 12:50
720-54312-11	MW-2	Water	12/12/13 10:50	12/12/13 12:50
720-54312-12	MW-1	Water	12/12/13 11:30	12/12/13 12:50
720-54312-13	DUP	Water	12/11/13 00:00	12/12/13 12:50

150624

720-54312

CHAIN OF CUSTODY RECORD

Stantec
Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Chris Maxwell
email: chris.maxwell@stantec.com

Stantec Project # 185702534

DATE: 12-12-13
PAGE: 1 OF 1

Project Name: Bohannon
Address: 575 Paseo Grande
San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon
Sampler(s) Signature:

Laboratory: Test America
Lab Use Only:

Turn-around Time (Business Days):
10 DAYS [X] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]
[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

720-54312 Chain of Custody

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX 8260B	Laboratory Notes
	TB-1	12-12-13	1100	W	2	HCL	X	
	MW-7		1150		3			
	MW-6		1230					
	MW-5		1310					
	NOBS-B1		1400					
	MW-4		1440					
	POBS-B2	12-12-13	810					
	MW-3		850					
	POBS-B1		930					
	POBS-A1		1010					
	MW-2		1050					
	MW-1		1130					
	DUP	12-1-13	—					

	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	12-12-13	1250		12/12/13	13 50	4°C
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		Time	
Relinquished by (Signature)	Date:	Time	Received by: (Signature)		Time	

12/18/2013

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-54312-1

Login Number: 54312

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-56377-1
Client Project/Site: Bohannon San Lorenzo

For:
Stantec Consulting Corp.
3017 Kilgore Road
Suite 100
Rancho Cordova, California 95670

Attn: Brian Westhoff

Authorized for release by:
4/3/2014 2:27:40 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-56377-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-56377-1

Comments
No additional comments.

Receipt
The samples were received on 3/27/2014 11:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-7 — Lab Sample ID: 720-56377-1

No Detections.

Client Sample ID: TB-1 — Lab Sample ID: 720-56377-2

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 720-56377-3

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 720-56377-4

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 720-56377-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	3.9		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	13		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	9.8		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	5500		250		ug/L	5		8260B/CA_LUFT MS	Total/NA

Client Sample ID: NOBS-B1 — Lab Sample ID: 720-56377-6

No Detections.

Client Sample ID: MW-1 — Lab Sample ID: 720-56377-7

No Detections.

Client Sample ID: DUP — Lab Sample ID: 720-56377-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	130		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	4.0		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	13		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	9.5		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	5500		250		ug/L	5		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 720-56377-9

No Detections.

Client Sample ID: POBS-B2 — Lab Sample ID: 720-56377-10

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample ID: POBS-B2 (Continued) — Lab Sample ID: 720-56377-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: POBS-A1 — Lab Sample ID: 720-56377-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	40		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	0.72		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	1.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	2.3		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	510		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: POBS-B1 — Lab Sample ID: 720-56377-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	63		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	0.72		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	1.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	390		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 720-56377-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	32		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1.2		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	450		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-7
Date Collected: 03/26/14 10:40
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 02:28	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 02:28	1
Toluene	ND		0.50		ug/L			03/28/14 02:28	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 02:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*03/28/14 02:28*	*1*
4-Bromofluorobenzene	*98*		*67 - 130*		*03/31/14 22:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*		*03/28/14 02:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*03/31/14 22:31*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/28/14 02:28*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/31/14 22:31*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: TB-1
Date Collected: 03/26/14 10:00
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 11:49	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 11:49	1
Toluene	ND		0.50		ug/L			03/28/14 11:49	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 11:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*03/28/14 11:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*03/28/14 11:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/28/14 11:49*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-6
Date Collected: 03/26/14 11:20
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 02:58	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 02:58	1
Toluene	ND		0.50		ug/L			03/28/14 02:58	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 02:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*03/28/14 02:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*		*03/28/14 02:58*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/28/14 02:58*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-5
Date Collected: 03/26/14 12:00
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 03:27	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 03:27	1
Toluene	ND		0.50		ug/L			03/28/14 03:27	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 03:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*03/28/14 03:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*		*03/28/14 03:27*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/28/14 03:27*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-4
Date Collected: 03/26/14 12:50
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	130		2.5		ug/L			03/28/14 05:25	5
Ethylbenzene	3.9		2.5		ug/L			03/28/14 05:25	5
Toluene	13		2.5		ug/L			03/28/14 05:25	5
Xylenes, Total	9.8		5.0		ug/L			03/28/14 05:25	5
Gasoline Range Organics (GRO) -C5-C12	5500		250		ug/L			03/28/14 05:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*67 - 130*		*03/28/14 05:25*	*5*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*03/28/14 05:25*	*5*
Toluene-d8 (Surr)	*105*		*70 - 130*		*03/28/14 05:25*	*5*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: NOBS-B1
Date Collected: 03/26/14 13:30
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 03:57	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 03:57	1
Toluene	ND		0.50		ug/L			03/28/14 03:57	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 03:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*03/28/14 03:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 130*		*03/28/14 03:57*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/28/14 03:57*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-1
Date Collected: 03/26/14 14:30
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 04:26	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 04:26	1
Toluene	ND		0.50		ug/L			03/28/14 04:26	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 04:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*03/28/14 04:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*03/28/14 04:26*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/28/14 04:26*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: DUP
Date Collected: 03/26/14 00:00
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	130		2.5		ug/L			03/28/14 05:54	5
Ethylbenzene	4.0		2.5		ug/L			03/28/14 05:54	5
Toluene	13		2.5		ug/L			03/28/14 05:54	5
Xylenes, Total	9.5		5.0		ug/L			03/28/14 05:54	5
Gasoline Range Organics (GRO) -C5-C12	5500		250		ug/L			03/28/14 05:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*03/28/14 05:54*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*03/28/14 05:54*	*5*
Toluene-d8 (Surr)	*106*		*70 - 130*		*03/28/14 05:54*	*5*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-3
Date Collected: 03/27/14 08:40
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 04:55	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 04:55	1
Toluene	ND		0.50		ug/L			03/28/14 04:55	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 04:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*03/28/14 04:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*		*03/28/14 04:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/28/14 04:55*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: POBS-B2
Date Collected: 03/27/14 09:20
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.0**		0.50		ug/L			03/28/14 14:24	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 14:24	1
Toluene	ND		0.50		ug/L			03/28/14 14:24	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 14:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*03/28/14 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*03/28/14 14:24*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/28/14 14:24*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: POBS-A1
Date Collected: 03/27/14 10:00
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-11
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	40		0.50		ug/L			04/01/14 21:14	1
Ethylbenzene	0.72		0.50		ug/L			04/01/14 21:14	1
Toluene	1.3		0.50		ug/L			04/01/14 21:14	1
Xylenes, Total	2.3		1.0		ug/L			04/01/14 21:14	1
Gasoline Range Organics (GRO) -C5-C12	510		50		ug/L			04/01/14 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*04/01/14 21:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*		*04/01/14 21:14*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/01/14 21:14*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: POBS-B1
Date Collected: 03/27/14 10:40
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-12
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**63**		0.50		ug/L			03/28/14 13:33	1
Ethylbenzene	**0.72**		0.50		ug/L			03/28/14 13:33	1
Toluene	**1.5**		0.50		ug/L			03/28/14 13:33	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 13:33	1
Gasoline Range Organics (GRO) -C5-C12	**390**		50		ug/L			03/28/14 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*03/28/14 13:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*03/28/14 13:33*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*03/28/14 13:33*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-2
Date Collected: 03/27/14 11:20
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-13
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**32**		0.50		ug/L			03/28/14 13:58	1
Ethylbenzene	**1.2**		0.50		ug/L			03/28/14 13:58	1
Toluene	**1.1**		0.50		ug/L			03/28/14 13:58	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 13:58	1
Gasoline Range Organics (GRO) -C5-C12	**450**		50		ug/L			03/28/14 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*03/28/14 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*		*03/28/14 13:58*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/28/14 13:58*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-156119/7
Matrix: Water
Analysis Batch: 156119

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/27/14 19:36	1
Ethylbenzene	ND		0.50		ug/L			03/27/14 19:36	1
Toluene	ND		0.50		ug/L			03/27/14 19:36	1
Xylenes, Total	ND		1.0		ug/L			03/27/14 19:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/27/14 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*03/27/14 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*03/27/14 19:36*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/27/14 19:36*	*1*

Lab Sample ID: LCS 720-156119/10
Matrix: Water
Analysis Batch: 156119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	550		ug/L		110	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCS 720-156119/8
Matrix: Water
Analysis Batch: 156119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	23.3		ug/L		93	79 - 130		
Ethylbenzene			25.0	26.7		ug/L		107	80 - 120		
Toluene			25.0	25.0		ug/L		100	78 - 120		
m-Xylene & p-Xylene			50.0	52.1		ug/L		104	70 - 142		
o-Xylene			25.0	27.2		ug/L		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 720-156119/11
Matrix: Water
Analysis Batch: 156119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	571		ug/L		114	62 - 120	4	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-156119/11
Matrix: Water
Analysis Batch: 156119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 720-156119/9
Matrix: Water
Analysis Batch: 156119

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	23.2		ug/L		93	79 - 130	0	20
Ethylbenzene			25.0	27.4		ug/L		110	80 - 120	3	20
Toluene			25.0	26.1		ug/L		104	78 - 120	4	20
m-Xylene & p-Xylene			50.0	53.2		ug/L		106	70 - 142	2	20
o-Xylene			25.0	27.8		ug/L		111	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 720-156151/4
Matrix: Water
Analysis Batch: 156151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/28/14 08:47	1
Ethylbenzene	ND		0.50		ug/L			03/28/14 08:47	1
Toluene	ND		0.50		ug/L			03/28/14 08:47	1
Xylenes, Total	ND		1.0		ug/L			03/28/14 08:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/28/14 08:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*03/28/14 08:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*		*03/28/14 08:47*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*03/28/14 08:47*	*1*

Lab Sample ID: LCS 720-156151/5
Matrix: Water
Analysis Batch: 156151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			25.0	25.2		ug/L		101	79 - 130
Ethylbenzene			25.0	25.1		ug/L		101	80 - 120
Toluene			25.0	25.3		ug/L		101	78 - 120
m-Xylene & p-Xylene			50.0	51.5		ug/L		103	70 - 142
o-Xylene			25.0	26.1		ug/L		104	70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-156151/5
Matrix: Water
Analysis Batch: 156151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCS 720-156151/7
Matrix: Water
Analysis Batch: 156151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	451		ug/L		90	62 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-156151/6
Matrix: Water
Analysis Batch: 156151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	24.7		ug/L		99	79 - 130	2	20
Ethylbenzene			25.0	23.8		ug/L		95	80 - 120	6	20
Toluene			25.0	24.3		ug/L		97	78 - 120	4	20
m-Xylene & p-Xylene			50.0	49.2		ug/L		98	70 - 142	5	20
o-Xylene			25.0	24.7		ug/L		99	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-156151/8
Matrix: Water
Analysis Batch: 156151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	446		ug/L		89	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-156329/5
Matrix: Water
Analysis Batch: 156329

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/31/14 19:03	1
Ethylbenzene	ND		0.50		ug/L			03/31/14 19:03	1
Toluene	ND		0.50		ug/L			03/31/14 19:03	1
Xylenes, Total	ND		1.0		ug/L			03/31/14 19:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			03/31/14 19:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*03/31/14 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*		*03/31/14 19:03*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*03/31/14 19:03*	*1*

Lab Sample ID: LCS 720-156329/6
Matrix: Water
Analysis Batch: 156329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.4		ug/L		93	79 - 130
Ethylbenzene	25.0	22.7		ug/L		91	80 - 120
Toluene	25.0	22.8		ug/L		91	78 - 120
m-Xylene & p-Xylene	50.0	46.5		ug/L		93	70 - 142
o-Xylene	25.0	23.5		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*81*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCS 720-156329/8
Matrix: Water
Analysis Batch: 156329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	413		ug/L		83	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-156329/7
Matrix: Water
Analysis Batch: 156329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.3		ug/L		93	79 - 130	0	20
Ethylbenzene	25.0	22.7		ug/L		91	80 - 120	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-156329/7
Matrix: Water
Analysis Batch: 156329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	23.2		ug/L		93	78 - 120	2	20
m-Xylene & p-Xylene			50.0	46.6		ug/L		93	70 - 142	0	20
o-Xylene			25.0	23.7		ug/L		95	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-156329/9
Matrix: Water
Analysis Batch: 156329

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	410		ug/L		82	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 720-156448/4
Matrix: Water
Analysis Batch: 156448

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			04/01/14 18:43	1
Ethylbenzene	ND		0.50		ug/L			04/01/14 18:43	1
Toluene	ND		0.50		ug/L			04/01/14 18:43	1
Xylenes, Total	ND		1.0		ug/L			04/01/14 18:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			04/01/14 18:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*04/01/14 18:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*		*04/01/14 18:43*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/01/14 18:43*	*1*

Lab Sample ID: LCS 720-156448/5
Matrix: Water
Analysis Batch: 156448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			25.0	23.8		ug/L		95	79 - 130
Ethylbenzene			25.0	23.8		ug/L		95	80 - 120
Toluene			25.0	24.4		ug/L		97	78 - 120
m-Xylene & p-Xylene			50.0	50.2		ug/L		100	70 - 142

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-156448/5
Matrix: Water
Analysis Batch: 156448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			25.0	25.7		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-156448/7
Matrix: Water
Analysis Batch: 156448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	495		ug/L		99	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-156448/6
Matrix: Water
Analysis Batch: 156448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	24.2		ug/L		97	79 - 130	1	20
Ethylbenzene			25.0	24.1		ug/L		96	80 - 120	1	20
Toluene			25.0	24.7		ug/L		99	78 - 120	2	20
m-Xylene & p-Xylene			50.0	50.7		ug/L		101	70 - 142	1	20
o-Xylene			25.0	25.9		ug/L		104	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-156448/8
Matrix: Water
Analysis Batch: 156448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	518		ug/L		104	62 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*72 - 130*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-156448/8
Matrix: Water
Analysis Batch: 156448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130

GC/MS VOA

Analysis Batch: 156119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-56377-1	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-3	MW-6	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-4	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-5	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-6	NOBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-7	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-8	DUP	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-9	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156119/10	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156119/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-156119/11	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-156119/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-156119/7	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 156151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-56377-2	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-10	POBS-B2	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-12	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-56377-13	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156151/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156151/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-156151/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-156151/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-156151/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 156329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-56377-1	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156329/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156329/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 156329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-156329/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-156329/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-156329/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 156448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-56377-11	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156448/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-156448/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-156448/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-156448/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-156448/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-7
Lab Sample ID: 720-56377-1
Date Collected: 03/26/14 10:40
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156119	03/28/14 02:28	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	156329	03/31/14 22:31	PDR	TAL PLS

Client Sample ID: TB-1
Lab Sample ID: 720-56377-2
Date Collected: 03/26/14 10:00
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156151	03/28/14 11:49	PDR	TAL PLS

Client Sample ID: MW-6
Lab Sample ID: 720-56377-3
Date Collected: 03/26/14 11:20
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156119	03/28/14 02:58	PDR	TAL PLS

Client Sample ID: MW-5
Lab Sample ID: 720-56377-4
Date Collected: 03/26/14 12:00
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156119	03/28/14 03:27	PDR	TAL PLS

Client Sample ID: MW-4
Lab Sample ID: 720-56377-5
Date Collected: 03/26/14 12:50
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	156119	03/28/14 05:25	PDR	TAL PLS

Client Sample ID: NOBS-B1
Lab Sample ID: 720-56377-6
Date Collected: 03/26/14 13:30
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156119	03/28/14 03:57	PDR	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-1
Lab Sample ID: 720-56377-7

Date Collected: 03/26/14 14:30
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156119	03/28/14 04:26	PDR	TAL PLS

Client Sample ID: DUP
Lab Sample ID: 720-56377-8

Date Collected: 03/26/14 00:00
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	156119	03/28/14 05:54	PDR	TAL PLS

Client Sample ID: MW-3
Lab Sample ID: 720-56377-9

Date Collected: 03/27/14 08:40
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156119	03/28/14 04:55	PDR	TAL PLS

Client Sample ID: POBS-B2
Lab Sample ID: 720-56377-10

Date Collected: 03/27/14 09:20
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156151	03/28/14 14:24	PDR	TAL PLS

Client Sample ID: POBS-A1
Lab Sample ID: 720-56377-11

Date Collected: 03/27/14 10:00
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156448	04/01/14 21:14	LPL	TAL PLS

Client Sample ID: POBS-B1
Lab Sample ID: 720-56377-12

Date Collected: 03/27/14 10:40
Matrix: Water
Date Received: 03/27/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156151	03/28/14 13:33	PDR	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Client Sample ID: MW-2
Date Collected: 03/27/14 11:20
Date Received: 03/27/14 11:55

Lab Sample ID: 720-56377-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	156151	03/28/14 13:58	PDR	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-56377-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-56377-1	MW-7	Water	03/26/14 10:40	03/27/14 11:55
720-56377-2	TB-1	Water	03/26/14 10:00	03/27/14 11:55
720-56377-3	MW-6	Water	03/26/14 11:20	03/27/14 11:55
720-56377-4	MW-5	Water	03/26/14 12:00	03/27/14 11:55
720-56377-5	MW-4	Water	03/26/14 12:50	03/27/14 11:55
720-56377-6	NOBS-B1	Water	03/26/14 13:30	03/27/14 11:55
720-56377-7	MW-1	Water	03/26/14 14:30	03/27/14 11:55
720-56377-8	DUP	Water	03/26/14 00:00	03/27/14 11:55
720-56377-9	MW-3	Water	03/27/14 08:40	03/27/14 11:55
720-56377-10	POBS-B2	Water	03/27/14 09:20	03/27/14 11:55
720-56377-11	POBS-A1	Water	03/27/14 10:00	03/27/14 11:55
720-56377-12	POBS-B1	Water	03/27/14 10:40	03/27/14 11:55
720-56377-13	MW-2	Water	03/27/14 11:20	03/27/14 11:55

720-56377

CHAIN OF CUSTODY RECORD

152700

Stantec Rancho Cordova Office
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Brian Westhoff
email: brian.westhoff@stantec.com

Stantec Project #: 185702534

DATE: 3-27-14

PAGE: 1 OF 1

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [X] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	Laboratory Notes
	MW-7	3-26-14	1040	W	3	HCL	X	
	TB-1		1000					
	MW-6		1120					
	MW-5		1200					
	MW-4		1250					
	NOBS-B1		1330					
	MW-1		1430					
	DUP		—					
	MW-3	3-27-14	840					
	POBS-B2		920					
	POBS-A1		1000					
	POBS-B1		1040					
	MW-2		1120					

720-56377 Chain of Custody

	Date:	Time	Received by: (Signature)	Date:	Time
Relinquished by: (Signature)	3-27-14	1155		3-27-14	1155
Relinquished by: (Signature)	Date:	Time	Received by: (Signature)		Time:
Relinquished by: (Signature)	Date:	Time	Received by (Signature)		Time:

3.1°C

4/3/2014

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-56377-1

Login Number: 56377

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-57602-1
Client Project/Site: Bohannon San Lorenzo

For:
Stantec Consulting Corp.
1340 Treat Blvd
Suite 300
Walnut Creek, California 94597

Attn: Mrs. Eva Hey

Authorized for release by:
6/3/2014 4:09:57 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
H	Sample was prepped or analyzed beyond the specified holding time
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-57602-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-57602-1

Comments
No additional comments.

Receipt
The samples were received on 5/22/2014 12:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.6º C and 5.6º C.

Except:

All soil samples taken in terra cores sampled before 5-20-14 @ 1210 were received past hold time for freezing. Have 1 broken voa w/di for sample HP-2,2'.

GC/MS VOA
Method(s) 8260B: The following samples were received outside of holding time: HP-1,11' (720-57602-13), HP-1,3' (720-57602-11), HP-1,5.5' (720-57602-12), HP-11,12' (720-57602-9), HP-11,3' (720-57602-7), HP-11,5' (720-57602-8), HP-12,,3' (720-57602-3), HP-12,11' (720-57602-5), HP-12,8' (720-57602-4), HP-13,4' (720-57602-17), SV-10,6.5'' (720-57602-16), SV-11,10' (720-57602-15), SV-14,3' (720-57602-1), SV-14,6' (720-57602-2).

Method(s) 8260B: The following samples were received outside of holding time: HP-13,12' (720-57602-19), HP-13,8' (720-57602-18), HP-3,4' (720-57602-25), HP-4,12' (720-57602-23), HP-4,4' (720-57602-21), HP-4,8' (720-57602-22).

Method(s) 8260B: Internal standard (ISTD) response for the following sample was outside control limits: HP-11,3' (720-57602-7). The sample was re-analyzed with concurring results, and the data has been reported.

Method(s) 8260B: The following samples was received outside of holding time: HP-1,3' (720-57602-11), HP-11,3' (720-57602-7), HP-12,,3' (720-57602-3), SV-10,6.5'' (720-57602-16).

Method(s) 8260B: The following samples were received outside of holding time: HP-1,11' (720-57602-13), HP-1,5.5' (720-57602-12).

Method(s) 8260B: The following sample 57602-20 were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: (720-57602-20 MS), (720-57602-20 MSD), HP-13 (720-57602-20).

Method(s) 8260B: The following sample 57602-29 was received outside of holding time.

Method(s) 8260B: Internal standard (ISTD) response for the following sample 57602-29 was outside of acceptance limits. The sample(s) was not re-analyzed due to 2nd vial broke and sample was ND report as is according to PM.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C SIM: Surrogate recovery for the following sample(s) was outside control limits: SV-12,8.5' (720-57602-34). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-14,3' — Lab Sample ID: 720-57602-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	2500000		240000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA

Client Sample ID: SV-14,6' — Lab Sample ID: 720-57602-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1100000		250000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-12,,3' — Lab Sample ID: 720-57602-3

No Detections.

Client Sample ID: HP-12,8' — Lab Sample ID: 720-57602-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	190000		20000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-12,11' — Lab Sample ID: 720-57602-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	170000		21000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-12 — Lab Sample ID: 720-57602-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	21		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	11		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	6600		500		ug/L	10		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-11,3' — Lab Sample ID: 720-57602-7

No Detections.

Client Sample ID: HP-11,5' — Lab Sample ID: 720-57602-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1000000		180000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	470		370		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-11,12' — Lab Sample ID: 720-57602-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1900		410		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2300000		410000		ug/Kg	2000		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HP-11,12' (Continued) — Lab Sample ID: 720-57602-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	26000		410		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Toluene	1900		410		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	15000		820		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-11 — Lab Sample ID: 720-57602-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	710		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1700		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	200		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	670		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	180000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-1,3' — Lab Sample ID: 720-57602-11

No Detections.

Client Sample ID: HP-1,5.5' — Lab Sample ID: 720-57602-12

No Detections.

Client Sample ID: HP-1,11' — Lab Sample ID: 720-57602-13

No Detections.

Client Sample ID: TB-1 — Lab Sample ID: 720-57602-14

No Detections.

Client Sample ID: SV-11,10' — Lab Sample ID: 720-57602-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	95000		24000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	8.3		4.9		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: SV-10,6.5" — Lab Sample ID: 720-57602-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.5	H	3.8		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	3500	H	190		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	28		5.0		ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-13,4' — Lab Sample ID: 720-57602-17

No Detections.

Client Sample ID: HP-13,8' — Lab Sample ID: 720-57602-18

No Detections.

Client Sample ID: HP-13,12' — Lab Sample ID: 720-57602-19

No Detections.

Client Sample ID: HP-13 — Lab Sample ID: 720-57602-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.67		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	58		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-4,4' — Lab Sample ID: 720-57602-21

No Detections.

Client Sample ID: HP-4,8' — Lab Sample ID: 720-57602-22

No Detections.

Client Sample ID: HP-4,12' — Lab Sample ID: 720-57602-23

No Detections.

Client Sample ID: HP-4 — Lab Sample ID: 720-57602-24

No Detections.

Client Sample ID: HP-3,4' — Lab Sample ID: 720-57602-25

No Detections.

Client Sample ID: HP-3,9' — Lab Sample ID: 720-57602-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	310000		20000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-3,12' — Lab Sample ID: 720-57602-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1100000		89000		ug/Kg	500		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1500		360		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-3 — Lab Sample ID: 720-57602-28

This Detection Summary does not include radiochemical test results.

Client Sample ID: HP-3 (Continued) — Lab Sample ID: 720-57602-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1400		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	7.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	19		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	24		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	10000		500		ug/L	10		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-2,2' — Lab Sample ID: 720-57602-29

No Detections.

Client Sample ID: HP-2,9' — Lab Sample ID: 720-57602-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	340000		18000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-2,12' — Lab Sample ID: 720-57602-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	330000		20000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1200		390		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-2 — Lab Sample ID: 720-57602-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2300		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Toluene	76		50		ug/L	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	240		100		ug/L	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	290000		5000		ug/L	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: SV-12,5.5' — Lab Sample ID: 720-57602-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	260		200		ug/Kg	20		8270C SIM	Total/NA
Benzo[a]anthracene	1800		200		ug/Kg	20		8270C SIM	Total/NA
Benzo[a]pyrene	1800		200		ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	2700		200		ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1000		200		ug/Kg	20		8270C SIM	Total/NA
Benzo[k]fluoranthene	1100		200		ug/Kg	20		8270C SIM	Total/NA
Chrysene	2300		200		ug/Kg	20		8270C SIM	Total/NA
Dibenz(a,h)anthracene	280		200		ug/Kg	20		8270C SIM	Total/NA
Fluoranthene	3800		200		ug/Kg	20		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	930		200		ug/Kg	20		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SV-12,5.5' (Continued) — Lab Sample ID: 720-57602-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	710		200		ug/Kg	20		8270C SIM	Total/NA
Pyrene	3200		200		ug/Kg	20		8270C SIM	Total/NA

Client Sample ID: SV-12,8.5' — Lab Sample ID: 720-57602-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	180000		22000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Naphthalene	2400		50		ug/Kg	10		8270C SIM	Total/NA

Client Sample ID: HP-5,4' — Lab Sample ID: 720-57602-35

No Detections.

Client Sample ID: HP-5,8' — Lab Sample ID: 720-57602-36

No Detections.

Client Sample ID: HP-5,12' — Lab Sample ID: 720-57602-37

No Detections.

Client Sample ID: HP-5 — Lab Sample ID: 720-57602-38

No Detections.

Client Sample ID: HP-6,4' — Lab Sample ID: 720-57602-39

No Detections.

Client Sample ID: HP-6,8' — Lab Sample ID: 720-57602-40

No Detections.

Client Sample ID: HP-6,11' — Lab Sample ID: 720-57602-41

No Detections.

Client Sample ID: HP-6 — Lab Sample ID: 720-57602-42

No Detections.

Client Sample ID: HP-7,4' — Lab Sample ID: 720-57602-43

No Detections.

Client Sample ID: HP-7,8' — Lab Sample ID: 720-57602-44

No Detections.

Client Sample ID: HP-7,11' — Lab Sample ID: 720-57602-45

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-9,4.5' — Lab Sample ID: 720-57602-46

No Detections.

Client Sample ID: SV-9,8' — Lab Sample ID: 720-57602-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1300		440		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	920000		220000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	14000		440		ug/Kg	100		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	2700		880		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: SV-6,4' — Lab Sample ID: 720-57602-48

No Detections.

Client Sample ID: SV-6,9' — Lab Sample ID: 720-57602-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1400		210		ug/Kg	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: HP-7' — Lab Sample ID: 720-57602-50

No Detections.

Client Sample ID: HP-8,4' — Lab Sample ID: 720-57602-51

No Detections.

Client Sample ID: HP-8,8' — Lab Sample ID: 720-57602-52

No Detections.

Client Sample ID: HP-8,11.5' — Lab Sample ID: 720-57602-53

No Detections.

Client Sample ID: HP-9,4' — Lab Sample ID: 720-57602-54

No Detections.

Client Sample ID: HP-9,8' — Lab Sample ID: 720-57602-55

No Detections.

Client Sample ID: HP-9,12' — Lab Sample ID: 720-57602-56

No Detections.

Client Sample ID: HP-9 — Lab Sample ID: 720-57602-57

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-8 — Lab Sample ID: 720-57602-58

No Detections.

Client Sample ID: HP-10,4' — Lab Sample ID: 720-57602-59

No Detections.

Client Sample ID: HP-10,8' — Lab Sample ID: 720-57602-60

No Detections.

Client Sample ID: HP-10,11.5' — Lab Sample ID: 720-57602-61

No Detections.

Client Sample ID: SV-13,10' — Lab Sample ID: 720-57602-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	540000		190000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	600		380		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: SV-5,4' — Lab Sample ID: 720-57602-63

No Detections.

Client Sample ID: SV-5,8.5' — Lab Sample ID: 720-57602-64

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	210000		20000		ug/Kg	100		8260B/CA_LUFT MS	Total/NA

Client Sample ID: SV-7,5' — Lab Sample ID: 720-57602-65

No Detections.

Client Sample ID: SV-8,5.5' — Lab Sample ID: 720-57602-67

No Detections.

Client Sample ID: SV-8,8' — Lab Sample ID: 720-57602-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1100000		95000		ug/Kg	500		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-14,3'
Date Collected: 05/16/14 08:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		480		ug/Kg		05/22/14 12:10	05/23/14 15:25	100
Gasoline Range Organics (GRO) -C5-C12	2500000		240000		ug/Kg		05/22/14 12:10	05/24/14 02:12	1000
Ethylbenzene	ND		480		ug/Kg		05/22/14 12:10	05/23/14 15:25	100
Toluene	ND		480		ug/Kg		05/22/14 12:10	05/23/14 15:25	100
Xylenes, Total	ND		950		ug/Kg		05/22/14 12:10	05/23/14 15:25	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*0*	*X*	*66 - 148*	*05/22/14 12:10*	*05/23/14 15:25*	*100*
4-Bromofluorobenzene	*109*		*66 - 148*	*05/22/14 12:10*	*05/24/14 02:12*	*1000*
1,2-Dichloroethane-d4 (Surr)	*123*		*62 - 137*	*05/22/14 12:10*	*05/23/14 15:25*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*	*05/22/14 12:10*	*05/24/14 02:12*	*1000*
Toluene-d8 (Surr)	*98*		*65 - 141*	*05/22/14 12:10*	*05/23/14 15:25*	*100*
Toluene-d8 (Surr)	*96*		*65 - 141*	*05/22/14 12:10*	*05/24/14 02:12*	*1000*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-14,6'
Date Collected: 05/16/14 08:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg		05/22/14 12:10	05/23/14 15:55	100
Gasoline Range Organics (GRO) -C5-C12	1100000		250000		ug/Kg		05/22/14 12:10	05/24/14 02:41	1000
Ethylbenzene	ND		500		ug/Kg		05/22/14 12:10	05/23/14 15:55	100
Toluene	ND		500		ug/Kg		05/22/14 12:10	05/23/14 15:55	100
Xylenes, Total	ND		1000		ug/Kg		05/22/14 12:10	05/23/14 15:55	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*133*		*66 - 148*	*05/22/14 12:10*	*05/23/14 15:55*	*100*
4-Bromofluorobenzene	*105*		*66 - 148*	*05/22/14 12:10*	*05/24/14 02:41*	*1000*
1,2-Dichloroethane-d4 (Surr)	*118*		*62 - 137*	*05/22/14 12:10*	*05/23/14 15:55*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*05/22/14 12:10*	*05/24/14 02:41*	*1000*
Toluene-d8 (Surr)	*104*		*65 - 141*	*05/22/14 12:10*	*05/23/14 15:55*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*05/22/14 12:10*	*05/24/14 02:41*	*1000*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-12,,3'
Date Collected: 05/16/14 09:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	3.4		ug/Kg		05/22/14 12:10	05/23/14 11:21	1
Ethylbenzene	ND	H	3.4		ug/Kg		05/22/14 12:10	05/23/14 11:21	1
Toluene	ND	H	3.4		ug/Kg		05/22/14 12:10	05/23/14 11:21	1
Xylenes, Total	ND	H	6.9		ug/Kg		05/22/14 12:10	05/23/14 11:21	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	170		ug/Kg		05/22/14 12:10	05/23/14 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*05/22/14 12:10*	*05/23/14 11:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*	*05/22/14 12:10*	*05/23/14 11:21*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/23/14 11:21*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-12,8'
Date Collected: 05/16/14 09:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-4
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 16:24	100
Gasoline Range Organics (GRO) -C5-C12	190000		20000		ug/Kg		05/22/14 12:10	05/24/14 03:09	100
Ethylbenzene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 16:24	100
Toluene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 16:24	100
Xylenes, Total	ND		790		ug/Kg		05/22/14 12:10	05/23/14 16:24	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*		*66 - 148*	*05/22/14 12:10*	*05/23/14 16:24*	*100*
4-Bromofluorobenzene	*102*		*66 - 148*	*05/22/14 12:10*	*05/24/14 03:09*	*100*
1,2-Dichloroethane-d4 (Surr)	*119*		*62 - 137*	*05/22/14 12:10*	*05/23/14 16:24*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*05/22/14 12:10*	*05/24/14 03:09*	*100*
Toluene-d8 (Surr)	*105*		*65 - 141*	*05/22/14 12:10*	*05/23/14 16:24*	*100*
Toluene-d8 (Surr)	*98*		*65 - 141*	*05/22/14 12:10*	*05/24/14 03:09*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-12,11'
Date Collected: 05/16/14 10:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		420		ug/Kg		05/22/14 12:10	05/23/14 16:53	100
Gasoline Range Organics (GRO) -C5-C12	170000		21000		ug/Kg		05/22/14 12:10	05/23/14 16:53	100
Ethylbenzene	ND		420		ug/Kg		05/22/14 12:10	05/23/14 16:53	100
Toluene	ND		420		ug/Kg		05/22/14 12:10	05/23/14 16:53	100
Xylenes, Total	ND		840		ug/Kg		05/22/14 12:10	05/23/14 16:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*66 - 148*	*05/22/14 12:10*	*05/23/14 16:53*	*100*
1,2-Dichloroethane-d4 (Surr)	*120*		*62 - 137*	*05/22/14 12:10*	*05/23/14 16:53*	*100*
Toluene-d8 (Surr)	*104*		*65 - 141*	*05/22/14 12:10*	*05/23/14 16:53*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-12
Date Collected: 05/16/14 10:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/L			05/27/14 16:37	10
Ethylbenzene	**21**		5.0		ug/L			05/27/14 16:37	10
Toluene	ND		5.0		ug/L			05/27/14 16:37	10
Xylenes, Total	**11**		10		ug/L			05/27/14 16:37	10
Gasoline Range Organics (GRO) -C5-C12	**6600**		500		ug/L			05/27/14 16:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*05/27/14 16:37*	*10*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*05/27/14 16:37*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/27/14 16:37*	*10*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-11,3'
Date Collected: 05/16/14 11:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	4.3		ug/Kg		05/22/14 12:10	05/23/14 11:50	1
Ethylbenzene	ND	H *	4.3		ug/Kg		05/22/14 12:10	05/23/14 11:50	1
Toluene	ND	H *	4.3		ug/Kg		05/22/14 12:10	05/23/14 11:50	1
Xylenes, Total	ND	H	8.5		ug/Kg		05/22/14 12:10	05/23/14 11:50	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	210		ug/Kg		05/22/14 12:10	05/23/14 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*69*	*	*45 - 131*	*05/22/14 12:10*	*05/23/14 11:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*05/22/14 12:10*	*05/23/14 11:50*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*05/22/14 12:10*	*05/23/14 11:50*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-11,5'
Date Collected: 05/16/14 11:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		370		ug/Kg		05/22/14 12:10	05/23/14 17:22	100
Gasoline Range Organics (GRO) -C5-C12	**1000000**		180000		ug/Kg		05/22/14 12:10	05/24/14 03:38	1000
Ethylbenzene	**470**		370		ug/Kg		05/22/14 12:10	05/23/14 17:22	100
Toluene	ND		370		ug/Kg		05/22/14 12:10	05/23/14 17:22	100
Xylenes, Total	ND		730		ug/Kg		05/22/14 12:10	05/23/14 17:22	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*139*		*66 - 148*	*05/22/14 12:10*	*05/23/14 17:22*	*100*
4-Bromofluorobenzene	*103*		*66 - 148*	*05/22/14 12:10*	*05/24/14 03:38*	*1000*
1,2-Dichloroethane-d4 (Surr)	*108*		*62 - 137*	*05/22/14 12:10*	*05/23/14 17:22*	*100*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*	*05/22/14 12:10*	*05/24/14 03:38*	*1000*
Toluene-d8 (Surr)	*102*		*65 - 141*	*05/22/14 12:10*	*05/23/14 17:22*	*100*
Toluene-d8 (Surr)	*98*		*65 - 141*	*05/22/14 12:10*	*05/24/14 03:38*	*1000*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-11,12'
Date Collected: 05/16/14 11:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-9
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1900		410		ug/Kg		05/22/14 12:11	05/23/14 17:52	100
Gasoline Range Organics (GRO) -C5-C12	2300000		410000		ug/Kg		05/22/14 12:11	05/24/14 04:06	2000
Ethylbenzene	26000		410		ug/Kg		05/22/14 12:11	05/23/14 17:52	100
Toluene	1900		410		ug/Kg		05/22/14 12:11	05/23/14 17:52	100
Xylenes, Total	15000		820		ug/Kg		05/22/14 12:11	05/23/14 17:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*66 - 148*	*05/22/14 12:11*	*05/23/14 17:52*	*100*
4-Bromofluorobenzene	*97*		*66 - 148*	*05/22/14 12:11*	*05/24/14 04:06*	*2000*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*05/22/14 12:11*	*05/23/14 17:52*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*	*05/22/14 12:11*	*05/24/14 04:06*	*2000*
Toluene-d8 (Surr)	*102*		*65 - 141*	*05/22/14 12:11*	*05/23/14 17:52*	*100*
Toluene-d8 (Surr)	*96*		*65 - 141*	*05/22/14 12:11*	*05/24/14 04:06*	*2000*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-11
Date Collected: 05/16/14 13:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	710		50		ug/L			05/24/14 01:38	100
Ethylbenzene	1700		50		ug/L			05/24/14 01:38	100
Toluene	200		50		ug/L			05/24/14 01:38	100
Xylenes, Total	670		100		ug/L			05/24/14 01:38	100
Gasoline Range Organics (GRO) -C5-C12	180000		5000		ug/L			05/24/14 01:38	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*05/24/14 01:38*	*100*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*05/24/14 01:38*	*100*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/24/14 01:38*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-1,3'
Date Collected: 05/16/14 13:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-11
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	3.5		ug/Kg		05/22/14 12:10	05/23/14 12:19	1
Ethylbenzene	ND	H	3.5		ug/Kg		05/22/14 12:10	05/23/14 12:19	1
Toluene	ND	H	3.5		ug/Kg		05/22/14 12:10	05/23/14 12:19	1
Xylenes, Total	ND	H	7.1		ug/Kg		05/22/14 12:10	05/23/14 12:19	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	180		ug/Kg		05/22/14 12:10	05/23/14 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*45 - 131*	*05/22/14 12:10*	*05/23/14 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*	*05/22/14 12:10*	*05/23/14 12:19*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*05/22/14 12:10*	*05/23/14 12:19*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-1,5.5'
Date Collected: 05/16/14 13:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	4.2		ug/Kg		05/22/14 12:10	05/22/14 22:48	1
Ethylbenzene	ND	H	4.2		ug/Kg		05/22/14 12:10	05/22/14 22:48	1
Toluene	ND	H	4.2		ug/Kg		05/22/14 12:10	05/22/14 22:48	1
Xylenes, Total	ND	H	8.5		ug/Kg		05/22/14 12:10	05/22/14 22:48	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	170		ug/Kg		05/22/14 12:10	05/23/14 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*45 - 131*	*05/22/14 12:10*	*05/22/14 22:48*	*1*
4-Bromofluorobenzene	*82*		*45 - 131*	*05/22/14 12:10*	*05/23/14 19:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*	*05/22/14 12:10*	*05/22/14 22:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*05/22/14 12:10*	*05/23/14 19:34*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/22/14 12:10*	*05/22/14 22:48*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*05/22/14 12:10*	*05/23/14 19:34*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-1,11'
Date Collected: 05/16/14 13:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-13
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	4.0		ug/Kg		05/22/14 12:10	05/22/14 23:16	1
Ethylbenzene	ND	H	4.0		ug/Kg		05/22/14 12:10	05/22/14 23:16	1
Toluene	ND	H	4.0		ug/Kg		05/22/14 12:10	05/22/14 23:16	1
Xylenes, Total	ND	H	8.0		ug/Kg		05/22/14 12:10	05/22/14 23:16	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	160		ug/Kg		05/22/14 12:10	05/23/14 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*45 - 131*	*05/22/14 12:10*	*05/22/14 23:16*	*1*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/23/14 20:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*05/22/14 12:10*	*05/22/14 23:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*05/22/14 12:10*	*05/23/14 20:04*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*05/22/14 12:10*	*05/22/14 23:16*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/23/14 20:04*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: TB-1
Date Collected: 05/16/14 08:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-14
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/23/14 21:45	1
Ethylbenzene	ND		0.50		ug/L			05/23/14 21:45	1
Toluene	ND		0.50		ug/L			05/23/14 21:45	1
Xylenes, Total	ND		1.0		ug/L			05/23/14 21:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/23/14 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*05/23/14 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*		*05/23/14 21:45*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/23/14 21:45*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-11,10'
Date Collected: 05/19/14 08:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-15
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		470		ug/Kg		05/22/14 12:10	05/23/14 18:21	100
Gasoline Range Organics (GRO) -C5-C12	95000		24000		ug/Kg		05/22/14 12:10	05/24/14 04:35	100
Ethylbenzene	ND		470		ug/Kg		05/22/14 12:10	05/23/14 18:21	100
Toluene	ND		470		ug/Kg		05/22/14 12:10	05/23/14 18:21	100
Xylenes, Total	ND		950		ug/Kg		05/22/14 12:10	05/23/14 18:21	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*66 - 148*	*05/22/14 12:10*	*05/23/14 18:21*	*100*
4-Bromofluorobenzene	*98*		*66 - 148*	*05/22/14 12:10*	*05/24/14 04:35*	*100*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*	*05/22/14 12:10*	*05/23/14 18:21*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*05/22/14 12:10*	*05/24/14 04:35*	*100*
Toluene-d8 (Surr)	*103*		*65 - 141*	*05/22/14 12:10*	*05/23/14 18:21*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*05/22/14 12:10*	*05/24/14 04:35*	*100*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Acenaphthylene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Anthracene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Benzo[a]anthracene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Benzo[a]pyrene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Chrysene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Fluoranthene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Fluorene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Naphthalene	8.3		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Phenanthrene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1
Pyrene	ND		4.9		ug/Kg		05/30/14 22:53	05/31/14 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*33 - 120*	*05/30/14 22:53*	*05/31/14 16:06*	*1*
Terphenyl-d14	*73*		*35 - 146*	*05/30/14 22:53*	*05/31/14 16:06*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-10,6.5"
Date Collected: 05/19/14 08:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-16
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.5**	**H**	3.8		ug/Kg		05/22/14 12:10	05/23/14 12:48	1
Ethylbenzene	ND	H	3.8		ug/Kg		05/22/14 12:10	05/23/14 12:48	1
Toluene	ND	H	3.8		ug/Kg		05/22/14 12:10	05/23/14 12:48	1
Xylenes, Total	ND	H	7.6		ug/Kg		05/22/14 12:10	05/23/14 12:48	1
Gasoline Range Organics (GRO) -C5-C12	**3500**	**H**	190		ug/Kg		05/22/14 12:10	05/23/14 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*45 - 131*	*05/22/14 12:10*	*05/23/14 12:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*05/22/14 12:10*	*05/23/14 12:48*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*05/22/14 12:10*	*05/23/14 12:48*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Acenaphthylene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Benzo[a]anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Benzo[a]pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Chrysene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Fluorene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Naphthalene	**28**		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Phenanthrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1
Pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*33 - 120*	*05/30/14 22:53*	*05/31/14 16:29*	*1*
Terphenyl-d14	*85*		*35 - 146*	*05/30/14 22:53*	*05/31/14 16:29*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-13,4'
Date Collected: 05/19/14 09:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-17
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	4.0		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Ethylbenzene	ND	H	4.0		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Toluene	ND	H	4.0		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Xylenes, Total	ND	H	7.9		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	200		ug/Kg		05/22/14 12:10	05/23/14 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*05/22/14 12:10*	*05/23/14 00:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*05/22/14 12:10*	*05/23/14 00:42*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*05/22/14 12:10*	*05/23/14 00:42*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-13,8'
Date Collected: 05/19/14 09:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-18
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	5.6		ug/Kg		05/22/14 12:10	05/22/14 19:55	1
Ethylbenzene	ND	H	5.6		ug/Kg		05/22/14 12:10	05/22/14 19:55	1
Toluene	ND	H	5.6		ug/Kg		05/22/14 12:10	05/22/14 19:55	1
Xylenes, Total	ND	H	11		ug/Kg		05/22/14 12:10	05/22/14 19:55	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	280		ug/Kg		05/22/14 12:10	05/22/14 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*	*05/22/14 12:10*	*05/22/14 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*	*05/22/14 12:10*	*05/22/14 19:55*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/22/14 19:55*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-13,12'
Date Collected: 05/19/14 10:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-19
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	3.8		ug/Kg		05/22/14 12:10	05/22/14 20:25	1
Ethylbenzene	ND	H	3.8		ug/Kg		05/22/14 12:10	05/22/14 20:25	1
Toluene	ND	H	3.8		ug/Kg		05/22/14 12:10	05/22/14 20:25	1
Xylenes, Total	ND	H	7.6		ug/Kg		05/22/14 12:10	05/22/14 20:25	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	190		ug/Kg		05/22/14 12:10	05/22/14 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*05/22/14 12:10*	*05/22/14 20:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*05/22/14 12:10*	*05/22/14 20:25*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*05/22/14 12:10*	*05/22/14 20:25*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-13
Date Collected: 05/19/14 11:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-20
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/23/14 22:14	1
Ethylbenzene	**0.67**		0.50		ug/L			05/23/14 22:14	1
Toluene	ND		0.50		ug/L			05/23/14 22:14	1
Xylenes, Total	ND		1.0		ug/L			05/23/14 22:14	1
Gasoline Range Organics (GRO) -C5-C12	**58**		50		ug/L			05/23/14 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*05/23/14 22:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*05/23/14 22:14*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/23/14 22:14*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-4,4'
Date Collected: 05/19/14 10:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-21
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	4.1		ug/Kg		05/22/14 12:10	05/22/14 20:55	1
Ethylbenzene	ND	H	4.1		ug/Kg		05/22/14 12:10	05/22/14 20:55	1
Toluene	ND	H	4.1		ug/Kg		05/22/14 12:10	05/22/14 20:55	1
Xylenes, Total	ND	H	8.1		ug/Kg		05/22/14 12:10	05/22/14 20:55	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	200		ug/Kg		05/22/14 12:10	05/22/14 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*	*05/22/14 12:10*	*05/22/14 20:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*	*05/22/14 12:10*	*05/22/14 20:55*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*05/22/14 12:10*	*05/22/14 20:55*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-4,8'
Date Collected: 05/19/14 10:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	4.6		ug/Kg		05/22/14 12:10	05/22/14 21:24	1
Ethylbenzene	ND	H	4.6		ug/Kg		05/22/14 12:10	05/22/14 21:24	1
Toluene	ND	H	4.6		ug/Kg		05/22/14 12:10	05/22/14 21:24	1
Xylenes, Total	ND	H	9.2		ug/Kg		05/22/14 12:10	05/22/14 21:24	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	230		ug/Kg		05/22/14 12:10	05/22/14 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*05/22/14 12:10*	*05/22/14 21:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*05/22/14 12:10*	*05/22/14 21:24*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/22/14 12:10*	*05/22/14 21:24*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-4,12'
Date Collected: 05/19/14 11:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-23
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	3.5		ug/Kg		05/22/14 12:10	05/22/14 21:54	1
Ethylbenzene	ND	H	3.5		ug/Kg		05/22/14 12:10	05/22/14 21:54	1
Toluene	ND	H	3.5		ug/Kg		05/22/14 12:10	05/22/14 21:54	1
Xylenes, Total	ND	H	7.0		ug/Kg		05/22/14 12:10	05/22/14 21:54	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	170		ug/Kg		05/22/14 12:10	05/22/14 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*05/22/14 12:10*	*05/22/14 21:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*05/22/14 12:10*	*05/22/14 21:54*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/22/14 12:10*	*05/22/14 21:54*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-4
Date Collected: 05/19/14 13:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-24
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/24/14 02:36	1
Ethylbenzene	ND		0.50		ug/L			05/24/14 02:36	1
Toluene	ND		0.50		ug/L			05/24/14 02:36	1
Xylenes, Total	ND		1.0		ug/L			05/24/14 02:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/24/14 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*05/24/14 02:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*05/24/14 02:36*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/24/14 02:36*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-3,4'
Date Collected: 05/19/14 13:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-25
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	3.7		ug/Kg		05/22/14 12:10	05/22/14 22:24	1
Ethylbenzene	ND	H	3.7		ug/Kg		05/22/14 12:10	05/22/14 22:24	1
Toluene	ND	H	3.7		ug/Kg		05/22/14 12:10	05/22/14 22:24	1
Xylenes, Total	ND	H	7.4		ug/Kg		05/22/14 12:10	05/22/14 22:24	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	180		ug/Kg		05/22/14 12:10	05/22/14 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*05/22/14 12:10*	*05/22/14 22:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*05/22/14 12:10*	*05/22/14 22:24*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/22/14 12:10*	*05/22/14 22:24*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-3,9'
Date Collected: 05/19/14 13:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-26
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 21:55	100
Gasoline Range Organics (GRO) -C5-C12	310000		20000		ug/Kg		05/22/14 12:10	05/23/14 21:55	100
Ethylbenzene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 21:55	100
Toluene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 21:55	100
Xylenes, Total	ND		790		ug/Kg		05/22/14 12:10	05/23/14 21:55	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*66 - 148*	*05/22/14 12:10*	*05/23/14 21:55*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*	*05/22/14 12:10*	*05/23/14 21:55*	*100*
Toluene-d8 (Surr)	*96*		*65 - 141*	*05/22/14 12:10*	*05/23/14 21:55*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-3,12'
Date Collected: 05/19/14 13:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-27
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		360		ug/Kg		05/22/14 12:10	05/23/14 22:23	100
Gasoline Range Organics (GRO) -C5-C12	**1100000**		89000		ug/Kg		05/22/14 12:10	05/27/14 17:51	500
Ethylbenzene	**1500**		360		ug/Kg		05/22/14 12:10	05/23/14 22:23	100
Toluene	ND		360		ug/Kg		05/22/14 12:10	05/23/14 22:23	100
Xylenes, Total	ND		710		ug/Kg		05/22/14 12:10	05/23/14 22:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*66 - 148*	*05/22/14 12:10*	*05/23/14 22:23*	*100*
4-Bromofluorobenzene	*91*		*66 - 148*	*05/22/14 12:10*	*05/27/14 17:51*	*500*
1,2-Dichloroethane-d4 (Surr)	*106*		*62 - 137*	*05/22/14 12:10*	*05/23/14 22:23*	*100*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*	*05/22/14 12:10*	*05/27/14 17:51*	*500*
Toluene-d8 (Surr)	*97*		*65 - 141*	*05/22/14 12:10*	*05/23/14 22:23*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*05/22/14 12:10*	*05/27/14 17:51*	*500*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-3
Date Collected: 05/19/14 14:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-28
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1400		5.0		ug/L			05/27/14 17:05	10
Ethylbenzene	7.4		0.50		ug/L			05/24/14 03:05	1
Toluene	19		0.50		ug/L			05/24/14 03:05	1
Xylenes, Total	24		1.0		ug/L			05/24/14 03:05	1
Gasoline Range Organics (GRO) -C5-C12	10000		500		ug/L			05/27/14 17:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*67 - 130*		*05/24/14 03:05*	*1*
4-Bromofluorobenzene	*91*		*67 - 130*		*05/27/14 17:05*	*10*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*05/24/14 03:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*05/27/14 17:05*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/24/14 03:05*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/27/14 17:05*	*10*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-2,2'
Date Collected: 05/19/14 14:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-29
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H	3.0		ug/Kg		05/22/14 12:10	05/22/14 18:02	1
Ethylbenzene	ND	H *	3.0		ug/Kg		05/22/14 12:10	05/22/14 18:02	1
Toluene	ND	H *	3.0		ug/Kg		05/22/14 12:10	05/22/14 18:02	1
Xylenes, Total	ND	H	5.9		ug/Kg		05/22/14 12:10	05/22/14 18:02	1
Gasoline Range Organics (GRO) -C5-C12	ND	H	150		ug/Kg		05/22/14 12:10	05/22/14 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*62*	*	*45 - 131*	*05/22/14 12:10*	*05/22/14 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*05/22/14 12:10*	*05/22/14 18:02*	*1*
Toluene-d8 (Surr)	*80*		*58 - 140*	*05/22/14 12:10*	*05/22/14 18:02*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-2,9'
Date Collected: 05/19/14 14:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-30
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		360		ug/Kg		05/22/14 12:10	05/23/14 22:52	100
Gasoline Range Organics (GRO) -C5-C12	340000		18000		ug/Kg		05/22/14 12:10	05/27/14 17:20	100
Ethylbenzene	ND		360		ug/Kg		05/22/14 12:10	05/23/14 22:52	100
Toluene	ND		360		ug/Kg		05/22/14 12:10	05/23/14 22:52	100
Xylenes, Total	ND		720		ug/Kg		05/22/14 12:10	05/23/14 22:52	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*66 - 148*	*05/22/14 12:10*	*05/23/14 22:52*	*100*
4-Bromofluorobenzene	*104*		*66 - 148*	*05/22/14 12:10*	*05/27/14 17:20*	*100*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*	*05/22/14 12:10*	*05/23/14 22:52*	*100*
1,2-Dichloroethane-d4 (Surr)	*97*		*62 - 137*	*05/22/14 12:10*	*05/27/14 17:20*	*100*
Toluene-d8 (Surr)	*96*		*65 - 141*	*05/22/14 12:10*	*05/23/14 22:52*	*100*
Toluene-d8 (Surr)	*95*		*65 - 141*	*05/22/14 12:10*	*05/27/14 17:20*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-2,12'
Date Collected: 05/19/14 14:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-31
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 23:20	100
Gasoline Range Organics (GRO) -C5-C12	**330000**		20000		ug/Kg		05/22/14 12:10	05/23/14 23:20	100
Ethylbenzene	**1200**		390		ug/Kg		05/22/14 12:10	05/23/14 23:20	100
Toluene	ND		390		ug/Kg		05/22/14 12:10	05/23/14 23:20	100
Xylenes, Total	ND		780		ug/Kg		05/22/14 12:10	05/23/14 23:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*66 - 148*	*05/22/14 12:10*	*05/23/14 23:20*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*	*05/22/14 12:10*	*05/23/14 23:20*	*100*
Toluene-d8 (Surr)	*96*		*65 - 141*	*05/22/14 12:10*	*05/23/14 23:20*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-2
Date Collected: 05/20/14 09:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-32
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		50		ug/L			05/24/14 02:07	100
Ethylbenzene	**2300**		50		ug/L			05/24/14 02:07	100
Toluene	**76**		50		ug/L			05/24/14 02:07	100
Xylenes, Total	**240**		100		ug/L			05/24/14 02:07	100
Gasoline Range Organics (GRO) -C5-C12	**290000**		5000		ug/L			05/24/14 02:07	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*05/24/14 02:07*	*100*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/24/14 02:07*	*100*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/24/14 02:07*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-12,5.5'
Date Collected: 05/20/14 08:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-33
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 13:16	1
Ethylbenzene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 13:16	1
Toluene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 13:16	1
Xylenes, Total	ND		7.1		ug/Kg		05/22/14 12:10	05/23/14 13:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/22/14 12:10	05/23/14 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*72*		*45 - 131*	*05/22/14 12:10*	*05/23/14 13:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*05/22/14 12:10*	*05/23/14 13:16*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*05/22/14 12:10*	*05/23/14 13:16*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Acenaphthylene	ND		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Anthracene	**260**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Benzo[a]anthracene	**1800**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Benzo[a]pyrene	**1800**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Benzo[b]fluoranthene	**2700**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Benzo[g,h,i]perylene	**1000**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Benzo[k]fluoranthene	**1100**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Chrysene	**2300**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Dibenz(a,h)anthracene	**280**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Fluoranthene	**3800**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Fluorene	ND		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Indeno[1,2,3-cd]pyrene	**930**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Naphthalene	ND		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Phenanthrene	**710**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20
Pyrene	**3200**		200		ug/Kg		05/30/14 22:53	05/31/14 16:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*05/30/14 22:53*	*05/31/14 16:53*	*20*
Terphenyl-d14	*63*		*35 - 146*	*05/30/14 22:53*	*05/31/14 16:53*	*20*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-12,8.5'
Date Collected: 05/20/14 08:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-34
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		440		ug/Kg		05/22/14 12:10	05/23/14 23:49	100
Gasoline Range Organics (GRO) -C5-C12	180000		22000		ug/Kg		05/22/14 12:10	05/23/14 23:49	100
Ethylbenzene	ND		440		ug/Kg		05/22/14 12:10	05/23/14 23:49	100
Toluene	ND		440		ug/Kg		05/22/14 12:10	05/23/14 23:49	100
Xylenes, Total	ND		890		ug/Kg		05/22/14 12:10	05/23/14 23:49	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*66 - 148*	*05/22/14 12:10*	*05/23/14 23:49*	*100*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*	*05/22/14 12:10*	*05/23/14 23:49*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*05/22/14 12:10*	*05/23/14 23:49*	*100*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Acenaphthylene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Benzo[a]anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Benzo[a]pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Chrysene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Fluorene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Naphthalene	2400		50		ug/Kg		05/30/14 22:53	06/02/14 14:03	10
Phenanthrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1
Pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*32*	*X*	*33 - 120*	*05/30/14 22:53*	*05/31/14 17:16*	*1*
2-Fluorobiphenyl	*58*		*33 - 120*	*05/30/14 22:53*	*06/02/14 14:03*	*10*
Terphenyl-d14	*79*		*35 - 146*	*05/30/14 22:53*	*05/31/14 17:16*	*1*
Terphenyl-d14	*97*		*35 - 146*	*05/30/14 22:53*	*06/02/14 14:03*	*10*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-5,4'
Date Collected: 05/20/14 10:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-35
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.4		ug/Kg		05/22/14 12:10	05/27/14 13:15	1
Ethylbenzene	ND		4.4		ug/Kg		05/22/14 12:10	05/27/14 13:15	1
Toluene	ND		4.4		ug/Kg		05/22/14 12:10	05/27/14 13:15	1
Xylenes, Total	ND		8.8		ug/Kg		05/22/14 12:10	05/27/14 13:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		05/22/14 12:10	05/27/14 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*81*		*45 - 131*	*05/22/14 12:10*	*05/27/14 13:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*	*05/22/14 12:10*	*05/27/14 13:15*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/22/14 12:10*	*05/27/14 13:15*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-5,8'
Date Collected: 05/20/14 10:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-36
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5		ug/Kg		05/22/14 12:10	05/22/14 22:16	1
Ethylbenzene	ND		4.5		ug/Kg		05/22/14 12:10	05/22/14 22:16	1
Toluene	ND		4.5		ug/Kg		05/22/14 12:10	05/22/14 22:16	1
Xylenes, Total	ND		8.9		ug/Kg		05/22/14 12:10	05/22/14 22:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		05/22/14 12:10	05/22/14 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*	*05/22/14 12:10*	*05/22/14 22:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*05/22/14 12:10*	*05/22/14 22:16*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*05/22/14 12:10*	*05/22/14 22:16*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-5,12'
Date Collected: 05/20/14 10:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-37
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.5		ug/Kg		05/22/14 12:10	05/22/14 22:45	1
Ethylbenzene	ND		3.5		ug/Kg		05/22/14 12:10	05/22/14 22:45	1
Toluene	ND		3.5		ug/Kg		05/22/14 12:10	05/22/14 22:45	1
Xylenes, Total	ND		7.1		ug/Kg		05/22/14 12:10	05/22/14 22:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/22/14 12:10	05/22/14 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/22/14 22:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*05/22/14 12:10*	*05/22/14 22:45*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*05/22/14 12:10*	*05/22/14 22:45*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-5
Date Collected: 05/20/14 10:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-38
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/24/14 03:34	1
Ethylbenzene	ND		0.50		ug/L			05/24/14 03:34	1
Toluene	ND		0.50		ug/L			05/24/14 03:34	1
Xylenes, Total	ND		1.0		ug/L			05/24/14 03:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/24/14 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*05/24/14 03:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/24/14 03:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/24/14 03:34*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-6,4'
Date Collected: 05/20/14 11:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-39
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8		ug/Kg		05/22/14 12:10	05/22/14 23:14	1
Ethylbenzene	ND		3.8		ug/Kg		05/22/14 12:10	05/22/14 23:14	1
Toluene	ND		3.8		ug/Kg		05/22/14 12:10	05/22/14 23:14	1
Xylenes, Total	ND		7.7		ug/Kg		05/22/14 12:10	05/22/14 23:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		05/22/14 12:10	05/22/14 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*	*05/22/14 12:10*	*05/22/14 23:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*05/22/14 12:10*	*05/22/14 23:14*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*05/22/14 12:10*	*05/22/14 23:14*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-6,8'
Date Collected: 05/20/14 11:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-40
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.3		ug/Kg		05/22/14 12:10	05/22/14 23:43	1
Ethylbenzene	ND		3.3		ug/Kg		05/22/14 12:10	05/22/14 23:43	1
Toluene	ND		3.3		ug/Kg		05/22/14 12:10	05/22/14 23:43	1
Xylenes, Total	ND		6.7		ug/Kg		05/22/14 12:10	05/22/14 23:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		170		ug/Kg		05/22/14 12:10	05/22/14 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/22/14 23:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*05/22/14 12:10*	*05/22/14 23:43*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/22/14 23:43*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-6,11'
Date Collected: 05/20/14 11:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-41
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.8		ug/Kg		05/22/14 12:10	05/23/14 00:13	1
Ethylbenzene	ND		4.8		ug/Kg		05/22/14 12:10	05/23/14 00:13	1
Toluene	ND		4.8		ug/Kg		05/22/14 12:10	05/23/14 00:13	1
Xylenes, Total	ND		9.5		ug/Kg		05/22/14 12:10	05/23/14 00:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		05/22/14 12:10	05/23/14 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/23/14 00:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*05/22/14 12:10*	*05/23/14 00:13*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/23/14 00:13*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-6
Date Collected: 05/20/14 12:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-42
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/24/14 04:03	1
Ethylbenzene	ND		0.50		ug/L			05/24/14 04:03	1
Toluene	ND		0.50		ug/L			05/24/14 04:03	1
Xylenes, Total	ND		1.0		ug/L			05/24/14 04:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/24/14 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*05/24/14 04:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*		*05/24/14 04:03*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/24/14 04:03*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-7,4'
Date Collected: 05/20/14 12:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-43
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.4		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Ethylbenzene	ND		4.4		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Toluene	ND		4.4		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Xylenes, Total	ND		8.9		ug/Kg		05/22/14 12:10	05/23/14 00:42	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		05/22/14 12:10	05/23/14 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*05/22/14 12:10*	*05/23/14 00:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*05/22/14 12:10*	*05/23/14 00:42*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/23/14 00:42*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-7,8'
Date Collected: 05/20/14 13:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-44
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.8		ug/Kg		05/22/14 12:10	05/23/14 01:11	1
Ethylbenzene	ND		4.8		ug/Kg		05/22/14 12:10	05/23/14 01:11	1
Toluene	ND		4.8		ug/Kg		05/22/14 12:10	05/23/14 01:11	1
Xylenes, Total	ND		9.6		ug/Kg		05/22/14 12:10	05/23/14 01:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		05/22/14 12:10	05/23/14 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*05/22/14 12:10*	*05/23/14 01:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*	*05/22/14 12:10*	*05/23/14 01:11*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/23/14 01:11*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-7,11'
Date Collected: 05/20/14 13:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-45
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 01:41	1
Ethylbenzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 01:41	1
Toluene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 01:41	1
Xylenes, Total	ND		7.6		ug/Kg		05/22/14 12:10	05/23/14 01:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		05/22/14 12:10	05/23/14 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*	*05/22/14 12:10*	*05/23/14 01:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*05/22/14 12:10*	*05/23/14 01:41*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*05/22/14 12:10*	*05/23/14 01:41*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-9,4.5'
Date Collected: 05/20/14 14:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-46
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 02:10	1
Ethylbenzene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 02:10	1
Toluene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 02:10	1
Xylenes, Total	ND		7.0		ug/Kg		05/22/14 12:10	05/23/14 02:10	1
Gasoline Range Organics (GRO) -C5-C12	ND		170		ug/Kg		05/22/14 12:10	05/23/14 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*05/22/14 12:10*	*05/23/14 02:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*	*05/22/14 12:10*	*05/23/14 02:10*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*05/22/14 12:10*	*05/23/14 02:10*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-9,8'
Date Collected: 05/20/14 14:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-47
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1300**		440		ug/Kg		05/22/14 12:10	05/23/14 18:50	100
Gasoline Range Organics (GRO) -C5-C12	**920000**		220000		ug/Kg		05/22/14 12:10	05/24/14 05:04	1000
Ethylbenzene	**14000**		440		ug/Kg		05/22/14 12:10	05/23/14 18:50	100
Toluene	ND		440		ug/Kg		05/22/14 12:10	05/23/14 18:50	100
Xylenes, Total	**2700**		880		ug/Kg		05/22/14 12:10	05/23/14 18:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*156*	*X*	*66 - 148*	*05/22/14 12:10*	*05/23/14 18:50*	*100*
4-Bromofluorobenzene	*98*		*66 - 148*	*05/22/14 12:10*	*05/24/14 05:04*	*1000*
1,2-Dichloroethane-d4 (Surr)	*108*		*62 - 137*	*05/22/14 12:10*	*05/23/14 18:50*	*100*
1,2-Dichloroethane-d4 (Surr)	*96*		*62 - 137*	*05/22/14 12:10*	*05/24/14 05:04*	*1000*
Toluene-d8 (Surr)	*104*		*65 - 141*	*05/22/14 12:10*	*05/23/14 18:50*	*100*
Toluene-d8 (Surr)	*96*		*65 - 141*	*05/22/14 12:10*	*05/24/14 05:04*	*1000*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-6,4'
Date Collected: 05/21/14 07:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-48
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.1		ug/Kg		05/22/14 12:10	05/23/14 03:08	1
Ethylbenzene	ND		3.1		ug/Kg		05/22/14 12:10	05/23/14 03:08	1
Toluene	ND		3.1		ug/Kg		05/22/14 12:10	05/23/14 03:08	1
Xylenes, Total	ND		6.2		ug/Kg		05/22/14 12:10	05/23/14 03:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		150		ug/Kg		05/22/14 12:10	05/23/14 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*	*05/22/14 12:10*	*05/23/14 03:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*05/22/14 12:10*	*05/23/14 03:08*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*05/22/14 12:10*	*05/23/14 03:08*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-6,9'
Date Collected: 05/21/14 08:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-49
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.1		ug/Kg		05/22/14 12:10	05/23/14 03:37	1
Ethylbenzene	ND		4.1		ug/Kg		05/22/14 12:10	05/23/14 03:37	1
Toluene	ND		4.1		ug/Kg		05/22/14 12:10	05/23/14 03:37	1
Xylenes, Total	ND		8.3		ug/Kg		05/22/14 12:10	05/23/14 03:37	1
Gasoline Range Organics (GRO) -C5-C12	**1400**		210		ug/Kg		05/22/14 12:10	05/23/14 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*119*		*45 - 131*	*05/22/14 12:10*	*05/23/14 03:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*	*05/22/14 12:10*	*05/23/14 03:37*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*	*05/22/14 12:10*	*05/23/14 03:37*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-7'
Date Collected: 05/21/14 09:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-50
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/24/14 04:32	1
Ethylbenzene	ND		0.50		ug/L			05/24/14 04:32	1
Toluene	ND		0.50		ug/L			05/24/14 04:32	1
Xylenes, Total	ND		1.0		ug/L			05/24/14 04:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/24/14 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*05/24/14 04:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/24/14 04:32*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/24/14 04:32*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-8,4'
Date Collected: 05/21/14 10:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-51
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 04:06	1
Ethylbenzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 04:06	1
Toluene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 04:06	1
Xylenes, Total	ND		7.7		ug/Kg		05/22/14 12:10	05/23/14 04:06	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		05/22/14 12:10	05/23/14 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*	*05/22/14 12:10*	*05/23/14 04:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*05/22/14 12:10*	*05/23/14 04:06*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*	*05/22/14 12:10*	*05/23/14 04:06*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-8,8'
Date Collected: 05/21/14 10:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-52
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 04:35	1
Ethylbenzene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 04:35	1
Toluene	ND		3.5		ug/Kg		05/22/14 12:10	05/23/14 04:35	1
Xylenes, Total	ND		6.9		ug/Kg		05/22/14 12:10	05/23/14 04:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		170		ug/Kg		05/22/14 12:10	05/23/14 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*	*05/22/14 12:10*	*05/23/14 04:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*05/22/14 12:10*	*05/23/14 04:35*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*05/22/14 12:10*	*05/23/14 04:35*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-8,11.5'
Date Collected: 05/21/14 10:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-53
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg		05/22/14 12:10	05/23/14 05:05	1
Ethylbenzene	ND		5.0		ug/Kg		05/22/14 12:10	05/23/14 05:05	1
Toluene	ND		5.0		ug/Kg		05/22/14 12:10	05/23/14 05:05	1
Xylenes, Total	ND		10		ug/Kg		05/22/14 12:10	05/23/14 05:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		05/22/14 12:10	05/23/14 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*	*05/22/14 12:10*	*05/23/14 05:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*05/22/14 12:10*	*05/23/14 05:05*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*	*05/22/14 12:10*	*05/23/14 05:05*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-9,4'
Date Collected: 05/21/14 11:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-54
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6		ug/Kg		05/22/14 12:10	05/23/14 05:34	1
Ethylbenzene	ND		4.6		ug/Kg		05/22/14 12:10	05/23/14 05:34	1
Toluene	ND		4.6		ug/Kg		05/22/14 12:10	05/23/14 05:34	1
Xylenes, Total	ND		9.2		ug/Kg		05/22/14 12:10	05/23/14 05:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		05/22/14 12:10	05/23/14 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*	*05/22/14 12:10*	*05/23/14 05:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*05/22/14 12:10*	*05/23/14 05:34*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*05/22/14 12:10*	*05/23/14 05:34*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-9,8'
Date Collected: 05/21/14 11:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-55
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.9		ug/Kg		05/22/14 12:10	05/23/14 06:03	1
Ethylbenzene	ND		3.9		ug/Kg		05/22/14 12:10	05/23/14 06:03	1
Toluene	ND		3.9		ug/Kg		05/22/14 12:10	05/23/14 06:03	1
Xylenes, Total	ND		7.9		ug/Kg		05/22/14 12:10	05/23/14 06:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		05/22/14 12:10	05/23/14 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*	*05/22/14 12:10*	*05/23/14 06:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*05/22/14 12:10*	*05/23/14 06:03*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*05/22/14 12:10*	*05/23/14 06:03*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-9,12'
Date Collected: 05/21/14 11:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-56
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.6		ug/Kg		05/22/14 12:10	05/22/14 22:02	1
Ethylbenzene	ND		3.6		ug/Kg		05/22/14 12:10	05/22/14 22:02	1
Toluene	ND		3.6		ug/Kg		05/22/14 12:10	05/22/14 22:02	1
Xylenes, Total	ND		7.2		ug/Kg		05/22/14 12:10	05/22/14 22:02	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/22/14 12:10	05/22/14 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/22/14 22:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*	*05/22/14 12:10*	*05/22/14 22:02*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*05/22/14 12:10*	*05/22/14 22:02*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-9
Date Collected: 05/21/14 11:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-57
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/24/14 05:02	1
Ethylbenzene	ND		0.50		ug/L			05/24/14 05:02	1
Toluene	ND		0.50		ug/L			05/24/14 05:02	1
Xylenes, Total	ND		1.0		ug/L			05/24/14 05:02	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/24/14 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*05/24/14 05:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*05/24/14 05:02*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/24/14 05:02*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-8
Date Collected: 05/21/14 13:20
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-58
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/24/14 05:31	1
Ethylbenzene	ND		0.50		ug/L			05/24/14 05:31	1
Toluene	ND		0.50		ug/L			05/24/14 05:31	1
Xylenes, Total	ND		1.0		ug/L			05/24/14 05:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/24/14 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*05/24/14 05:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/24/14 05:31*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/24/14 05:31*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-10,4'
Date Collected: 05/21/14 12:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-59
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8		ug/Kg		05/22/14 12:10	05/22/14 22:30	1
Ethylbenzene	ND		3.8		ug/Kg		05/22/14 12:10	05/22/14 22:30	1
Toluene	ND		3.8		ug/Kg		05/22/14 12:10	05/22/14 22:30	1
Xylenes, Total	ND		7.6		ug/Kg		05/22/14 12:10	05/22/14 22:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		05/22/14 12:10	05/22/14 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*05/22/14 12:10*	*05/22/14 22:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*05/22/14 12:10*	*05/22/14 22:30*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*05/22/14 12:10*	*05/22/14 22:30*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-10,8'
Date Collected: 05/21/14 12:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-60
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.5		ug/Kg		05/22/14 12:10	05/22/14 22:59	1
Ethylbenzene	ND		3.5		ug/Kg		05/22/14 12:10	05/22/14 22:59	1
Toluene	ND		3.5		ug/Kg		05/22/14 12:10	05/22/14 22:59	1
Xylenes, Total	ND		7.0		ug/Kg		05/22/14 12:10	05/22/14 22:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/22/14 12:10	05/22/14 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*05/22/14 12:10*	*05/22/14 22:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*	*05/22/14 12:10*	*05/22/14 22:59*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*05/22/14 12:10*	*05/22/14 22:59*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-10,11.5'
Date Collected: 05/21/14 13:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-61
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.4		ug/Kg		05/22/14 12:10	05/22/14 23:27	1
Ethylbenzene	ND		3.4		ug/Kg		05/22/14 12:10	05/22/14 23:27	1
Toluene	ND		3.4		ug/Kg		05/22/14 12:10	05/22/14 23:27	1
Xylenes, Total	ND		6.8		ug/Kg		05/22/14 12:10	05/22/14 23:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		170		ug/Kg		05/22/14 12:10	05/22/14 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/22/14 23:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*	*05/22/14 12:10*	*05/22/14 23:27*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*05/22/14 12:10*	*05/22/14 23:27*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-13,10'
Date Collected: 05/21/14 15:30
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-62
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		380		ug/Kg		05/22/14 12:10	05/23/14 19:20	100
Gasoline Range Organics (GRO) -C5-C12	**540000**		190000		ug/Kg		05/22/14 12:10	05/24/14 05:32	1000
Ethylbenzene	**600**		380		ug/Kg		05/22/14 12:10	05/23/14 19:20	100
Toluene	ND		380		ug/Kg		05/22/14 12:10	05/23/14 19:20	100
Xylenes, Total	ND		750		ug/Kg		05/22/14 12:10	05/23/14 19:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*139*		*66 - 148*	*05/22/14 12:10*	*05/23/14 19:20*	*100*
4-Bromofluorobenzene	*101*		*66 - 148*	*05/22/14 12:10*	*05/24/14 05:32*	*1000*
1,2-Dichloroethane-d4 (Surr)	*115*		*62 - 137*	*05/22/14 12:10*	*05/23/14 19:20*	*100*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*	*05/22/14 12:10*	*05/24/14 05:32*	*1000*
Toluene-d8 (Surr)	*103*		*65 - 141*	*05/22/14 12:10*	*05/23/14 19:20*	*100*
Toluene-d8 (Surr)	*98*		*65 - 141*	*05/22/14 12:10*	*05/24/14 05:32*	*1000*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-5,4'
Date Collected: 05/22/14 08:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-63
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 00:25	1
Ethylbenzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 00:25	1
Toluene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 00:25	1
Xylenes, Total	ND		7.7		ug/Kg		05/22/14 12:10	05/23/14 00:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		05/22/14 12:10	05/23/14 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/23/14 00:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*05/22/14 12:10*	*05/23/14 00:25*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*	*05/22/14 12:10*	*05/23/14 00:25*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-5,8.5'
Date Collected: 05/22/14 08:10
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-64
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		400		ug/Kg		05/22/14 12:10	05/24/14 00:46	100
Gasoline Range Organics (GRO) -C5-C12	210000		20000		ug/Kg		05/22/14 12:10	05/24/14 00:46	100
Ethylbenzene	ND		400		ug/Kg		05/22/14 12:10	05/24/14 00:46	100
Toluene	ND		400		ug/Kg		05/22/14 12:10	05/24/14 00:46	100
Xylenes, Total	ND		800		ug/Kg		05/22/14 12:10	05/24/14 00:46	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*66 - 148*	*05/22/14 12:10*	*05/24/14 00:46*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*05/22/14 12:10*	*05/24/14 00:46*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*05/22/14 12:10*	*05/24/14 00:46*	*100*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-7,5'
Date Collected: 05/22/14 08:40
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-65
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7		ug/Kg		05/22/14 12:10	05/23/14 01:22	1
Ethylbenzene	ND		4.7		ug/Kg		05/22/14 12:10	05/23/14 01:22	1
Toluene	ND		4.7		ug/Kg		05/22/14 12:10	05/23/14 01:22	1
Xylenes, Total	ND		9.3		ug/Kg		05/22/14 12:10	05/23/14 01:22	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		05/22/14 12:10	05/23/14 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/22/14 12:10*	*05/23/14 01:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*05/22/14 12:10*	*05/23/14 01:22*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*05/22/14 12:10*	*05/23/14 01:22*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-8,5.5'
Date Collected: 05/22/14 09:50
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-67
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 01:50	1
Ethylbenzene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 01:50	1
Toluene	ND		3.8		ug/Kg		05/22/14 12:10	05/23/14 01:50	1
Xylenes, Total	ND		7.6		ug/Kg		05/22/14 12:10	05/23/14 01:50	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		05/22/14 12:10	05/23/14 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*	*05/22/14 12:10*	*05/23/14 01:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*	*05/22/14 12:10*	*05/23/14 01:50*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*	*05/22/14 12:10*	*05/23/14 01:50*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-8,8'
Date Collected: 05/22/14 10:00
Date Received: 05/22/14 12:15

Lab Sample ID: 720-57602-68
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		380		ug/Kg		05/22/14 12:10	05/24/14 01:15	100
Gasoline Range Organics (GRO) -C5-C12	1100000		95000		ug/Kg		05/22/14 12:10	05/27/14 18:21	500
Ethylbenzene	ND		380		ug/Kg		05/22/14 12:10	05/24/14 01:15	100
Toluene	ND		380		ug/Kg		05/22/14 12:10	05/24/14 01:15	100
Xylenes, Total	ND		760		ug/Kg		05/22/14 12:10	05/24/14 01:15	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*66 - 148*	*05/22/14 12:10*	*05/24/14 01:15*	*100*
4-Bromofluorobenzene	*104*		*66 - 148*	*05/22/14 12:10*	*05/27/14 18:21*	*500*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*05/22/14 12:10*	*05/24/14 01:15*	*100*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*	*05/22/14 12:10*	*05/27/14 18:21*	*500*
Toluene-d8 (Surr)	*95*		*65 - 141*	*05/22/14 12:10*	*05/24/14 01:15*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*05/22/14 12:10*	*05/27/14 18:21*	*500*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-159894/5
Matrix: Solid
Analysis Batch: 159894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			05/22/14 15:19	1
Ethylbenzene	ND		5.0		ug/Kg			05/22/14 15:19	1
Toluene	ND		5.0		ug/Kg			05/22/14 15:19	1
Xylenes, Total	ND		10		ug/Kg			05/22/14 15:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/22/14 15:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*45 - 131*		*05/22/14 15:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*05/22/14 15:19*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*05/22/14 15:19*	*1*

Lab Sample ID: LCS 720-159894/6
Matrix: Solid
Analysis Batch: 159894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	44.8		ug/Kg		90	70 - 130		
Ethylbenzene			50.0	42.9		ug/Kg		86	80 - 137		
m-Xylene & p-Xylene			50.0	46.4		ug/Kg		93	70 - 146		
o-Xylene			50.0	45.0		ug/Kg		90	70 - 140		
Toluene			50.0	43.9		ug/Kg		88	80 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCS 720-159894/8
Matrix: Solid
Analysis Batch: 159894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	921		ug/Kg		92	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-159894/7
Matrix: Solid
Analysis Batch: 159894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	47.8		ug/Kg		96	70 - 130	6	20
Ethylbenzene			50.0	46.7		ug/Kg		93	80 - 137	9	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-159894/7
Matrix: Solid
Analysis Batch: 159894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene			50.0	50.2		ug/Kg		100	70 - 146	8	20
o-Xylene			50.0	49.0		ug/Kg		98	70 - 140	8	20
Toluene			50.0	46.7		ug/Kg		93	80 - 128	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-159894/9
Matrix: Solid
Analysis Batch: 159894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	988		ug/Kg		99	61 - 128	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: MB 720-159914/4
Matrix: Solid
Analysis Batch: 159914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			05/22/14 19:40	1
Ethylbenzene	ND		5.0		ug/Kg			05/22/14 19:40	1
Toluene	ND		5.0		ug/Kg			05/22/14 19:40	1
Xylenes, Total	ND		10		ug/Kg			05/22/14 19:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/22/14 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*		*05/22/14 19:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*		*05/22/14 19:40*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*		*05/22/14 19:40*	*1*

Lab Sample ID: LCS 720-159914/5
Matrix: Solid
Analysis Batch: 159914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			50.0	49.4		ug/Kg		99	70 - 130
Ethylbenzene			50.0	46.6		ug/Kg		93	80 - 137
m-Xylene & p-Xylene			50.0	47.9		ug/Kg		96	70 - 146
o-Xylene			50.0	48.9		ug/Kg		98	70 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-159914/5
Matrix: Solid
Analysis Batch: 159914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toluene			50.0	47.6		ug/Kg		95	80 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCS 720-159914/7
Matrix: Solid
Analysis Batch: 159914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	969		ug/Kg		97	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-159914/6
Matrix: Solid
Analysis Batch: 159914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	49.0		ug/Kg		98	70 - 130	1	20
Ethylbenzene			50.0	47.2		ug/Kg		94	80 - 137	1	20
m-Xylene & p-Xylene			50.0	47.9		ug/Kg		96	70 - 146	0	20
o-Xylene			50.0	48.4		ug/Kg		97	70 - 140	1	20
Toluene			50.0	48.1		ug/Kg		96	80 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-159914/8
Matrix: Solid
Analysis Batch: 159914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	942		ug/Kg		94	61 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-159914/8
Matrix: Solid
Analysis Batch: 159914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: MB 720-159915/4
Matrix: Solid
Analysis Batch: 159915

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			05/22/14 19:50	1
Ethylbenzene	ND		5.0		ug/Kg			05/22/14 19:50	1
Toluene	ND		5.0		ug/Kg			05/22/14 19:50	1
Xylenes, Total	ND		10		ug/Kg			05/22/14 19:50	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/22/14 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*45 - 131*		*05/22/14 19:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*05/22/14 19:50*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*		*05/22/14 19:50*	*1*

Lab Sample ID: LCS 720-159915/5
Matrix: Solid
Analysis Batch: 159915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.7		ug/Kg		99	70 - 130
Ethylbenzene	50.0	53.4		ug/Kg		107	80 - 137
m-Xylene & p-Xylene	50.0	53.3		ug/Kg		107	70 - 146
o-Xylene	50.0	53.6		ug/Kg		107	70 - 140
Toluene	50.0	50.5		ug/Kg		101	80 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCS 720-159915/7
Matrix: Solid
Analysis Batch: 159915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	918		ug/Kg		92	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-159915/6
Matrix: Solid
Analysis Batch: 159915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	50.0		ug/Kg		100	70 - 130	0	20
Ethylbenzene			50.0	53.5		ug/Kg		107	80 - 137	0	20
m-Xylene & p-Xylene			50.0	53.6		ug/Kg		107	70 - 146	0	20
o-Xylene			50.0	54.1		ug/Kg		108	70 - 140	1	20
Toluene			50.0	50.6		ug/Kg		101	80 - 128	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-159915/8
Matrix: Solid
Analysis Batch: 159915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	946		ug/Kg		95	61 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*103*		*58 - 140*

Lab Sample ID: MB 720-159920/4
Matrix: Solid
Analysis Batch: 159920

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			05/22/14 15:54	1
Ethylbenzene	ND		5.0		ug/Kg			05/22/14 15:54	1
Toluene	ND		5.0		ug/Kg			05/22/14 15:54	1
Xylenes, Total	ND		10		ug/Kg			05/22/14 15:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/22/14 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*		*05/22/14 15:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*		*05/22/14 15:54*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*		*05/22/14 15:54*	*1*

Lab Sample ID: LCS 720-159920/5
Matrix: Solid
Analysis Batch: 159920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			50.0	46.2		ug/Kg		92	70 - 130
Ethylbenzene			50.0	42.6		ug/Kg		85	80 - 137

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-159920/5
Matrix: Solid
Analysis Batch: 159920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	46.3		ug/Kg		93	70 - 146
o-Xylene	50.0	42.2		ug/Kg		84	70 - 140
Toluene	50.0	45.9		ug/Kg		92	80 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCS 720-159920/7
Matrix: Solid
Analysis Batch: 159920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-159920/6
Matrix: Solid
Analysis Batch: 159920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	45.9		ug/Kg		92	70 - 130	1	20
Ethylbenzene	50.0	42.0		ug/Kg		84	80 - 137	1	20
m-Xylene & p-Xylene	50.0	46.0		ug/Kg		92	70 - 146	1	20
o-Xylene	50.0	42.1		ug/Kg		84	70 - 140	0	20
Toluene	50.0	45.4		ug/Kg		91	80 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-159920/8
Matrix: Solid
Analysis Batch: 159920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1050		ug/Kg		105	61 - 128	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-159920/8
Matrix: Solid
Analysis Batch: 159920

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: MB 720-159950/4
Matrix: Solid
Analysis Batch: 159950

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg			05/23/14 10:48	100
Ethylbenzene	ND		500		ug/Kg			05/23/14 10:48	100
Toluene	ND		500		ug/Kg			05/23/14 10:48	100
Xylenes, Total	ND		1000		ug/Kg			05/23/14 10:48	100
Gasoline Range Organics (GRO) -C5-C12	ND		25000		ug/Kg			05/23/14 10:48	100

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		66 - 148		05/23/14 10:48	100
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		05/23/14 10:48	100
Toluene-d8 (Surr)	101		65 - 141		05/23/14 10:48	100

Lab Sample ID: LCS 720-159950/5
Matrix: Solid
Analysis Batch: 159950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5110		ug/Kg		102	76 - 122
Ethylbenzene	5000	5420		ug/Kg		108	76 - 137
m-Xylene & p-Xylene	5000	5510		ug/Kg		110	71 - 142
Toluene	5000	5170		ug/Kg		103	77 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		66 - 148
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
Toluene-d8 (Surr)	102		65 - 141

Lab Sample ID: LCS 720-159950/7
Matrix: Solid
Analysis Batch: 159950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	100000	99500		ug/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		66 - 148
1,2-Dichloroethane-d4 (Surr)	103		62 - 137

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-159950/7
Matrix: Solid
Analysis Batch: 159950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*104*		*65 - 141*

Lab Sample ID: LCSD 720-159950/6
Matrix: Solid
Analysis Batch: 159950

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			5000	5200		ug/Kg		104	76 - 122	2	20
Ethylbenzene			5000	5440		ug/Kg		109	76 - 137	0	20
m-Xylene & p-Xylene			5000	5520		ug/Kg		110	71 - 142	0	20
Toluene			5000	5140		ug/Kg		103	77 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*103*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*100*		*62 - 137*
Toluene-d8 (Surr)	*103*		*65 - 141*

Lab Sample ID: LCSD 720-159950/8
Matrix: Solid
Analysis Batch: 159950

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			100000	102000		ug/Kg		102	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*99*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*
Toluene-d8 (Surr)	*102*		*65 - 141*

Lab Sample ID: MB 720-159951/4
Matrix: Solid
Analysis Batch: 159951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			05/23/14 08:58	1
Ethylbenzene	ND		5.0		ug/Kg			05/23/14 08:58	1
Toluene	ND		5.0		ug/Kg			05/23/14 08:58	1
Xylenes, Total	ND		10		ug/Kg			05/23/14 08:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/23/14 08:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*94*		*45 - 131*		*05/23/14 08:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*		*05/23/14 08:58*	*1*
Toluene-d8 (Surr)	*100*		*58 - 140*		*05/23/14 08:58*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-159951/5
Matrix: Solid
Analysis Batch: 159951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	54.0		ug/Kg		108	70 - 130		
Ethylbenzene			50.0	50.0		ug/Kg		100	80 - 137		
m-Xylene & p-Xylene			50.0	51.3		ug/Kg		103	70 - 146		
o-Xylene			50.0	51.6		ug/Kg		103	70 - 140		
Toluene			50.0	51.2		ug/Kg		102	80 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCS 720-159951/7
Matrix: Solid
Analysis Batch: 159951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	968		ug/Kg		97	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-159951/6
Matrix: Solid
Analysis Batch: 159951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	53.2		ug/Kg		106	70 - 130	1	20
Ethylbenzene			50.0	49.4		ug/Kg		99	80 - 137	1	20
m-Xylene & p-Xylene			50.0	51.0		ug/Kg		102	70 - 146	0	20
o-Xylene			50.0	52.0		ug/Kg		104	70 - 140	1	20
Toluene			50.0	50.2		ug/Kg		100	80 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCSD 720-159951/8
Matrix: Solid
Analysis Batch: 159951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	982		ug/Kg		98	61 - 128	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-159951/8
Matrix: Solid
Analysis Batch: 159951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: MB 720-159982/4
Matrix: Solid
Analysis Batch: 159982

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			05/23/14 14:04	1
Ethylbenzene	ND		5.0		ug/Kg			05/23/14 14:04	1
Toluene	ND		5.0		ug/Kg			05/23/14 14:04	1
Xylenes, Total	ND		10		ug/Kg			05/23/14 14:04	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/23/14 14:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*94*		*45 - 131*		*05/23/14 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*		*05/23/14 14:04*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*		*05/23/14 14:04*	*1*

Lab Sample ID: LCS 720-159982/15
Matrix: Solid
Analysis Batch: 159982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.6		ug/Kg		91	70 - 130
Ethylbenzene	50.0	41.2		ug/Kg		82	80 - 137
m-Xylene & p-Xylene	50.0	46.1		ug/Kg		92	70 - 146
o-Xylene	50.0	41.4		ug/Kg		83	70 - 140
Toluene	50.0	46.0		ug/Kg		92	80 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*92*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCS 720-159982/7
Matrix: Solid
Analysis Batch: 159982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	978		ug/Kg		98	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	*95*		*45 - 131*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-159982/7
Matrix: Solid
Analysis Batch: 159982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-159982/16
Matrix: Solid
Analysis Batch: 159982

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	45.6		ug/Kg		91	70 - 130	0	20
Ethylbenzene			50.0	41.2		ug/Kg		82	80 - 137	0	20
m-Xylene & p-Xylene			50.0	46.0		ug/Kg		92	70 - 146	0	20
o-Xylene			50.0	41.9		ug/Kg		84	70 - 140	1	20
Toluene			50.0	45.9		ug/Kg		92	80 - 128	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-159982/8
Matrix: Solid
Analysis Batch: 159982

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1030		ug/Kg		103	61 - 128	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: MB 720-160000/5
Matrix: Water
Analysis Batch: 160000

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/23/14 19:20	1
Ethylbenzene	ND		0.50		ug/L			05/23/14 19:20	1
Toluene	ND		0.50		ug/L			05/23/14 19:20	1
Xylenes, Total	ND		1.0		ug/L			05/23/14 19:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/23/14 19:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	*92*		*67 - 130*		*05/23/14 19:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*		*05/23/14 19:20*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-160000/5
Matrix: Water
Analysis Batch: 160000

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		05/23/14 19:20	1

Lab Sample ID: LCS 720-160000/6
Matrix: Water
Analysis Batch: 160000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	23.8		ug/L		95	79 - 130		
Ethylbenzene			25.0	24.2		ug/L		97	80 - 120		
m-Xylene & p-Xylene			25.0	25.2		ug/L		101	70 - 142		
o-Xylene			25.0	23.3		ug/L		93	70 - 130		
Toluene			25.0	23.0		ug/L		92	78 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCS 720-160000/8
Matrix: Water
Analysis Batch: 160000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	560		ug/L		112	62 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 720-160000/7
Matrix: Water
Analysis Batch: 160000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	23.4		ug/L		94	79 - 130	1	20
Ethylbenzene			25.0	24.4		ug/L		98	80 - 120	1	20
m-Xylene & p-Xylene			25.0	25.2		ug/L		101	70 - 142	0	20
o-Xylene			25.0	23.2		ug/L		93	70 - 130	0	20
Toluene			25.0	23.2		ug/L		93	78 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	93		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	100		70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-160000/9
Matrix: Water
Analysis Batch: 160000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	557		ug/L		111	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 720-57602-20 MS
Matrix: Water
Analysis Batch: 160000

Client Sample ID: HP-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		25.0	23.9		ug/L		96	60 - 140		
Ethylbenzene	0.67		25.0	23.9		ug/L		93	60 - 140		
m-Xylene & p-Xylene	ND		25.0	24.4		ug/L		98	60 - 140		
o-Xylene	ND		25.0	22.8		ug/L		91	60 - 140		
Toluene	ND		25.0	22.3		ug/L		89	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 720-57602-20 MSD
Matrix: Water
Analysis Batch: 160000

Client Sample ID: HP-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.3		ug/L		97	60 - 140	1	20
Ethylbenzene	0.67		25.0	23.9		ug/L		93	60 - 140	0	20
m-Xylene & p-Xylene	ND		25.0	24.6		ug/L		98	60 - 140	1	20
o-Xylene	ND		25.0	23.0		ug/L		92	60 - 140	1	20
Toluene	ND		25.0	22.3		ug/L		89	60 - 140	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 720-160005/4
Matrix: Solid
Analysis Batch: 160005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg			05/23/14 19:32	100
Ethylbenzene	ND		500		ug/Kg			05/23/14 19:32	100

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-160005/4
Matrix: Solid
Analysis Batch: 160005

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		500		ug/Kg			05/23/14 19:32	100
Xylenes, Total	ND		1000		ug/Kg			05/23/14 19:32	100
Gasoline Range Organics (GRO) -C5-C12	ND		25000		ug/Kg			05/23/14 19:32	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*66 - 148*		*05/23/14 19:32*	*100*
1,2-Dichloroethane-d4 (Surr)	*105*		*62 - 137*		*05/23/14 19:32*	*100*
Toluene-d8 (Surr)	*98*		*65 - 141*		*05/23/14 19:32*	*100*

Lab Sample ID: LCS 720-160005/5
Matrix: Solid
Analysis Batch: 160005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	4620		ug/Kg		92	76 - 122
Ethylbenzene	5000	4530		ug/Kg		91	76 - 137
m-Xylene & p-Xylene	5000	4860		ug/Kg		97	71 - 142
Toluene	5000	4570		ug/Kg		91	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*106*		*62 - 137*
Toluene-d8 (Surr)	*101*		*65 - 141*

Lab Sample ID: LCS 720-160005/7
Matrix: Solid
Analysis Batch: 160005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	100000	100000		ug/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*108*		*62 - 137*
Toluene-d8 (Surr)	*99*		*65 - 141*

Lab Sample ID: LCSD 720-160005/6
Matrix: Solid
Analysis Batch: 160005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	4590		ug/Kg		92	76 - 122	1	20
Ethylbenzene	5000	4460		ug/Kg		89	76 - 137	2	20
m-Xylene & p-Xylene	5000	4800		ug/Kg		96	71 - 142	1	20
Toluene	5000	4550		ug/Kg		91	77 - 120	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-160005/6
Matrix: Solid
Analysis Batch: 160005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		66 - 148
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
Toluene-d8 (Surr)	101		65 - 141

Lab Sample ID: LCSD 720-160005/8
Matrix: Solid
Analysis Batch: 160005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			100000	102000		ug/Kg		102	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	98		66 - 148
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
Toluene-d8 (Surr)	98		65 - 141

Lab Sample ID: MB 720-160060/5
Matrix: Solid
Analysis Batch: 160060

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			05/27/14 10:44	1
Ethylbenzene	ND		5.0		ug/Kg			05/27/14 10:44	1
Toluene	ND		5.0		ug/Kg			05/27/14 10:44	1
Xylenes, Total	ND		10		ug/Kg			05/27/14 10:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/27/14 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131		05/27/14 10:44	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 140		05/27/14 10:44	1
Toluene-d8 (Surr)	97		58 - 140		05/27/14 10:44	1

Lab Sample ID: LCS 720-160060/6
Matrix: Solid
Analysis Batch: 160060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			50.0	47.9		ug/Kg		96	70 - 130
Ethylbenzene			50.0	43.9		ug/Kg		88	80 - 137
m-Xylene & p-Xylene			50.0	48.6		ug/Kg		97	70 - 146
o-Xylene			50.0	44.5		ug/Kg		89	70 - 140
Toluene			50.0	46.9		ug/Kg		94	80 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	95		45 - 131

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-160060/6
Matrix: Solid
Analysis Batch: 160060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCS 720-160060/8
Matrix: Solid
Analysis Batch: 160060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	1060		ug/Kg		106	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-160060/7
Matrix: Solid
Analysis Batch: 160060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	46.5		ug/Kg		93	70 - 130	3	20
Ethylbenzene			50.0	41.9		ug/Kg		84	80 - 137	5	20
m-Xylene & p-Xylene			50.0	46.6		ug/Kg		93	70 - 146	4	20
o-Xylene			50.0	43.0		ug/Kg		86	70 - 140	3	20
Toluene			50.0	45.4		ug/Kg		91	80 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-160060/9
Matrix: Solid
Analysis Batch: 160060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1030		ug/Kg		103	61 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-160061/5
Matrix: Water
Analysis Batch: 160061

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			05/27/14 10:25	1
Ethylbenzene	ND		0.50		ug/L			05/27/14 10:25	1
Toluene	ND		0.50		ug/L			05/27/14 10:25	1
Xylenes, Total	ND		1.0		ug/L			05/27/14 10:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/27/14 10:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*05/27/14 10:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*05/27/14 10:25*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/27/14 10:25*	*1*

Lab Sample ID: LCS 720-160061/6
Matrix: Water
Analysis Batch: 160061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.7		ug/L		103	79 - 130
Ethylbenzene	25.0	24.8		ug/L		99	80 - 120
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 142
o-Xylene	25.0	25.6		ug/L		103	70 - 130
Toluene	25.0	24.9		ug/L		99	78 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-160061/8
Matrix: Water
Analysis Batch: 160061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	487		ug/L		97	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 720-160061/7
Matrix: Water
Analysis Batch: 160061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	25.6		ug/L		102	79 - 130	0	20
Ethylbenzene	25.0	24.8		ug/L		99	80 - 120	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-160061/7
Matrix: Water
Analysis Batch: 160061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene			25.0	25.4		ug/L		102	70 - 142	0	20
o-Xylene			25.0	25.5		ug/L		102	70 - 130	0	20
Toluene			25.0	24.8		ug/L		99	78 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 720-160061/9
Matrix: Water
Analysis Batch: 160061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	499		ug/L		100	62 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-160398/1-A
Matrix: Solid
Analysis Batch: 160408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160398

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Acenaphthylene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Benzo[a]anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Benzo[a]pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Chrysene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Fluoranthene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Fluorene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Naphthalene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Phenanthrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1
Pyrene	ND		5.0		ug/Kg		05/30/14 22:53	05/31/14 14:33	1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-160398/1-A
Matrix: Solid
Analysis Batch: 160408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 160398

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		33 - 120	05/30/14 22:53	05/31/14 14:33	1
Terphenyl-d14	87		35 - 146	05/30/14 22:53	05/31/14 14:33	1

Lab Sample ID: LCS 720-160398/2-A
Matrix: Solid
Analysis Batch: 160408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 160398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	328	212		ug/Kg		65	49 - 120
Acenaphthylene	328	212		ug/Kg		65	52 - 120
Anthracene	328	242		ug/Kg		74	52 - 120
Benzo[a]anthracene	328	268		ug/Kg		82	52 - 120
Benzo[a]pyrene	328	293		ug/Kg		89	54 - 120
Benzo[b]fluoranthene	328	311		ug/Kg		95	51 - 120
Benzo[g,h,i]perylene	328	276		ug/Kg		84	48 - 120
Benzo[k]fluoranthene	328	275		ug/Kg		84	56 - 120
Chrysene	328	271		ug/Kg		83	40 - 120
Dibenz(a,h)anthracene	328	319		ug/Kg		97	50 - 120
Fluoranthene	328	272		ug/Kg		83	57 - 120
Fluorene	328	221		ug/Kg		67	52 - 120
Indeno[1,2,3-cd]pyrene	328	300		ug/Kg		91	48 - 120
Naphthalene	328	216		ug/Kg		66	46 - 120
Phenanthrene	328	231		ug/Kg		70	48 - 120
Pyrene	328	243		ug/Kg		74	53 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		33 - 120
Terphenyl-d14	87		35 - 146

Lab Sample ID: LCSD 720-160398/3-A
Matrix: Solid
Analysis Batch: 160408

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 160398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	332	228		ug/Kg		69	49 - 120	7	20
Acenaphthylene	332	227		ug/Kg		68	52 - 120	7	20
Anthracene	332	258		ug/Kg		78	52 - 120	7	20
Benzo[a]anthracene	332	275		ug/Kg		83	52 - 120	3	20
Benzo[a]pyrene	332	311		ug/Kg		94	54 - 120	6	20
Benzo[b]fluoranthene	332	331		ug/Kg		100	51 - 120	6	20
Benzo[g,h,i]perylene	332	290		ug/Kg		87	48 - 120	5	20
Benzo[k]fluoranthene	332	288		ug/Kg		87	56 - 120	5	20
Chrysene	332	276		ug/Kg		83	40 - 120	2	20
Dibenz(a,h)anthracene	332	336		ug/Kg		101	50 - 120	5	20
Fluoranthene	332	279		ug/Kg		84	57 - 120	3	20
Fluorene	332	243		ug/Kg		73	52 - 120	9	20
Indeno[1,2,3-cd]pyrene	332	317		ug/Kg		95	48 - 120	5	20
Naphthalene	332	222		ug/Kg		67	46 - 120	3	20

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-160398/3-A
Matrix: Solid
Analysis Batch: 160408

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 160398

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenanthrene			332	241		ug/Kg		72	48 - 120	4	20
Pyrene			332	246		ug/Kg		74	53 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*80*		*33 - 120*
Terphenyl-d14	*87*		*35 - 146*

GC/MS VOA

Analysis Batch: 159894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-12	HP-1,5.5'	Total/NA	Solid	8260B/CA_LUFT MS	159921
720-57602-13	HP-1,11'	Total/NA	Solid	8260B/CA_LUFT MS	159921
720-57602-17	HP-13,4'	Total/NA	Solid	8260B/CA_LUFT MS	159921
720-57602-29	HP-2,2'	Total/NA	Solid	8260B/CA_LUFT MS	159921
LCS 720-159894/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-159894/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159894/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159894/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-159894/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 159914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-56	HP-9,12'	Total/NA	Solid	8260B/CA_LUFT MS	159941
720-57602-59	HP-10,4'	Total/NA	Solid	8260B/CA_LUFT MS	159941
720-57602-60	HP-10,8'	Total/NA	Solid	8260B/CA_LUFT MS	159941
720-57602-61	HP-10,11.5'	Total/NA	Solid	8260B/CA_LUFT MS	159941
720-57602-63	SV-5,4'	Total/NA	Solid	8260B/CA_LUFT MS	159941
720-57602-65	SV-7,5'	Total/NA	Solid	8260B/CA_LUFT MS	159941
720-57602-67	SV-8,5.5'	Total/NA	Solid	8260B/CA_LUFT MS	159941
LCS 720-159914/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-159914/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159914/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159914/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-159914/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 159915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-36	HP-5,8'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-37	HP-5,12'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-39	HP-6,4'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-40	HP-6,8'	Total/NA	Solid	8260B/CA_LUFT MS	159938

GC/MS VOA (Continued)

Analysis Batch: 159915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-41	HP-6,11'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-43	HP-7,4'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-44	HP-7,8'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-45	HP-7,11'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-46	SV-9,4.5'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-48	SV-6,4'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-49	SV-6,9'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-51	HP-8,4'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-52	HP-8,8'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-53	HP-8,11.5'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-54	HP-9,4'	Total/NA	Solid	8260B/CA_LUFT MS	159938
720-57602-55	HP-9,8'	Total/NA	Solid	8260B/CA_LUFT MS	159938
LCS 720-159915/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-159915/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159915/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159915/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-159915/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 159917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-18	HP-13,8'	Total/NA	Solid	5035	
720-57602-19	HP-13,12'	Total/NA	Solid	5035	
720-57602-21	HP-4,4'	Total/NA	Solid	5035	
720-57602-22	HP-4,8'	Total/NA	Solid	5035	
720-57602-23	HP-4,12'	Total/NA	Solid	5035	
720-57602-25	HP-3,4'	Total/NA	Solid	5035	

Analysis Batch: 159920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-18	HP-13,8'	Total/NA	Solid	8260B/CA_LUFT MS	159917
720-57602-19	HP-13,12'	Total/NA	Solid	8260B/CA_LUFT MS	159917
720-57602-21	HP-4,4'	Total/NA	Solid	8260B/CA_LUFT MS	159917
720-57602-22	HP-4,8'	Total/NA	Solid	8260B/CA_LUFT MS	159917
720-57602-23	HP-4,12'	Total/NA	Solid	8260B/CA_LUFT MS	159917

GC/MS VOA (Continued)

Analysis Batch: 159920 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-25	HP-3,4'	Total/NA	Solid	8260B/CA_LUFT MS	159917
LCS 720-159920/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-159920/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159920/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159920/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-159920/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 159921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-12	HP-1,5.5'	Total/NA	Solid	5035	
720-57602-13	HP-1,11'	Total/NA	Solid	5035	
720-57602-17	HP-13,4'	Total/NA	Solid	5035	
720-57602-29	HP-2,2'	Total/NA	Solid	5035	

Prep Batch: 159938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-36	HP-5,8'	Total/NA	Solid	5035	
720-57602-37	HP-5,12'	Total/NA	Solid	5035	
720-57602-39	HP-6,4'	Total/NA	Solid	5035	
720-57602-40	HP-6,8'	Total/NA	Solid	5035	
720-57602-41	HP-6,11'	Total/NA	Solid	5035	
720-57602-43	HP-7,4'	Total/NA	Solid	5035	
720-57602-44	HP-7,8'	Total/NA	Solid	5035	
720-57602-45	HP-7,11'	Total/NA	Solid	5035	
720-57602-46	SV-9,4.5'	Total/NA	Solid	5035	
720-57602-48	SV-6,4'	Total/NA	Solid	5035	
720-57602-49	SV-6,9'	Total/NA	Solid	5035	
720-57602-51	HP-8,4'	Total/NA	Solid	5035	
720-57602-52	HP-8,8'	Total/NA	Solid	5035	
720-57602-53	HP-8,11.5'	Total/NA	Solid	5035	
720-57602-54	HP-9,4'	Total/NA	Solid	5035	
720-57602-55	HP-9,8'	Total/NA	Solid	5035	

Prep Batch: 159941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-56	HP-9,12'	Total/NA	Solid	5035	
720-57602-59	HP-10,4'	Total/NA	Solid	5035	
720-57602-60	HP-10,8'	Total/NA	Solid	5035	
720-57602-61	HP-10,11.5'	Total/NA	Solid	5035	
720-57602-63	SV-5,4'	Total/NA	Solid	5035	
720-57602-65	SV-7,5'	Total/NA	Solid	5035	
720-57602-67	SV-8,5.5'	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Analysis Batch: 159950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-1	SV-14,3'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-2	SV-14,6'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-4	HP-12,8'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-5	HP-12,11'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-8	HP-11,5'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-9	HP-11,12'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-15	SV-11,10'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-47	SV-9,8'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-62	SV-13,10'	Total/NA	Solid	8260B/CA_LUFT MS	159977
LCS 720-159950/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-159950/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159950/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159950/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-159950/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 159951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-3	HP-12,,3'	Total/NA	Solid	8260B/CA_LUFT MS	159970
720-57602-7	HP-11,3'	Total/NA	Solid	8260B/CA_LUFT MS	159970
720-57602-11	HP-1,3'	Total/NA	Solid	8260B/CA_LUFT MS	159970
720-57602-16	SV-10,6.5"	Total/NA	Solid	8260B/CA_LUFT MS	159970
720-57602-33	SV-12,5.5'	Total/NA	Solid	8260B/CA_LUFT MS	159970
LCS 720-159951/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-159951/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159951/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159951/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-159951/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 159970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-3	HP-12,,3'	Total/NA	Solid	5035	
720-57602-7	HP-11,3'	Total/NA	Solid	5035	
720-57602-11	HP-1,3'	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 159970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-16	SV-10,6.5"	Total/NA	Solid	5035	
720-57602-33	SV-12,5.5'	Total/NA	Solid	5035	

Prep Batch: 159977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-1	SV-14,3'	Total/NA	Solid	5035	
720-57602-2	SV-14,6'	Total/NA	Solid	5035	
720-57602-4	HP-12,8'	Total/NA	Solid	5035	
720-57602-5	HP-12,11'	Total/NA	Solid	5035	
720-57602-8	HP-11,5'	Total/NA	Solid	5035	
720-57602-9	HP-11,12'	Total/NA	Solid	5035	
720-57602-15	SV-11,10'	Total/NA	Solid	5035	
720-57602-47	SV-9,8'	Total/NA	Solid	5035	
720-57602-62	SV-13,10'	Total/NA	Solid	5035	

Analysis Batch: 159982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-12	HP-1,5.5'	Total/NA	Solid	8260B/CA_LUFT MS	159993
720-57602-13	HP-1,11'	Total/NA	Solid	8260B/CA_LUFT MS	159993
LCS 720-159982/15	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-159982/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159982/16	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-159982/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-159982/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 159993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-12	HP-1,5.5'	Total/NA	Solid	5035	
720-57602-13	HP-1,11'	Total/NA	Solid	5035	

Analysis Batch: 160000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-10	HP-11	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-14	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-20	HP-13	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-20 MS	HP-13	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-20 MSD	HP-13	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-24	HP-4	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-28	HP-3	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 160000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-32	HP-2	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-38	HP-5	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-42	HP-6	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-50	HP-7'	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-57	HP-9	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-58	HP-8	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-160000/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-160000/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-160000/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-160000/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-160000/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Prep Batch: 160003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-26	HP-3,9'	Total/NA	Solid	5035	
720-57602-27	HP-3,12'	Total/NA	Solid	5035	
720-57602-30	HP-2,9'	Total/NA	Solid	5035	
720-57602-31	HP-2,12'	Total/NA	Solid	5035	
720-57602-34	SV-12,8.5'	Total/NA	Solid	5035	
720-57602-64	SV-5,8.5'	Total/NA	Solid	5035	
720-57602-68	SV-8,8'	Total/NA	Solid	5035	

Analysis Batch: 160005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-1	SV-14,3'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-2	SV-14,6'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-4	HP-12,8'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-8	HP-11,5'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-9	HP-11,12'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-15	SV-11,10'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-26	HP-3,9'	Total/NA	Solid	8260B/CA_LUFT MS	160003
720-57602-27	HP-3,12'	Total/NA	Solid	8260B/CA_LUFT MS	160003
720-57602-30	HP-2,9'	Total/NA	Solid	8260B/CA_LUFT MS	160003
720-57602-31	HP-2,12'	Total/NA	Solid	8260B/CA_LUFT MS	160003

GC/MS VOA (Continued)

Analysis Batch: 160005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-34	SV-12,8.5'	Total/NA	Solid	8260B/CA_LUFT MS	160003
720-57602-47	SV-9,8'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-62	SV-13,10'	Total/NA	Solid	8260B/CA_LUFT MS	159977
720-57602-64	SV-5,8.5'	Total/NA	Solid	8260B/CA_LUFT MS	160003
720-57602-68	SV-8,8'	Total/NA	Solid	8260B/CA_LUFT MS	160003
LCS 720-160005/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-160005/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-160005/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-160005/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-160005/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 160060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-35	HP-5,4'	Total/NA	Solid	8260B/CA_LUFT MS	160092
LCS 720-160060/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-160060/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-160060/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-160060/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-160060/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 160061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-6	HP-12	Total/NA	Water	8260B/CA_LUFT MS	
720-57602-28	HP-3	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-160061/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-160061/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-160061/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-160061/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-160061/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Prep Batch: 160092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-35	HP-5,4'	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Analysis Batch: 160097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-27	HP-3,12'	Total/NA	Solid	8260B/CA_LUFT MS	160003
720-57602-30	HP-2,9'	Total/NA	Solid	8260B/CA_LUFT MS	160003
720-57602-68	SV-8,8'	Total/NA	Solid	8260B/CA_LUFT MS	160003

GC/MS Semi VOA

Prep Batch: 160398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-15	SV-11,10'	Total/NA	Solid	3546	
720-57602-16	SV-10,6.5"	Total/NA	Solid	3546	
720-57602-33	SV-12,5.5'	Total/NA	Solid	3546	
720-57602-34	SV-12,8.5'	Total/NA	Solid	3546	
LCS 720-160398/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-160398/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-160398/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 160408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-15	SV-11,10'	Total/NA	Solid	8270C SIM	160398
720-57602-16	SV-10,6.5"	Total/NA	Solid	8270C SIM	160398
720-57602-33	SV-12,5.5'	Total/NA	Solid	8270C SIM	160398
720-57602-34	SV-12,8.5'	Total/NA	Solid	8270C SIM	160398
LCS 720-160398/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	160398
LCSD 720-160398/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	160398
MB 720-160398/1-A	Method Blank	Total/NA	Solid	8270C SIM	160398

Analysis Batch: 160430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-57602-34	SV-12,8.5'	Total/NA	Solid	8270C SIM	160398

Client Sample ID: SV-14,3'

Lab Sample ID: 720-57602-1

Date Collected: 05/16/14 08:20

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 15:25	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	160005	05/24/14 02:12	LPL	TAL PLS

Client Sample ID: SV-14,6'

Lab Sample ID: 720-57602-2

Date Collected: 05/16/14 08:30

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 15:55	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	160005	05/24/14 02:41	LPL	TAL PLS

Client Sample ID: HP-12,,3'

Lab Sample ID: 720-57602-3

Date Collected: 05/16/14 09:40

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159970	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159951	05/23/14 11:21	PDR	TAL PLS

Client Sample ID: HP-12,8'

Lab Sample ID: 720-57602-4

Date Collected: 05/16/14 09:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 16:24	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/24/14 03:09	LPL	TAL PLS

Client Sample ID: HP-12,11'

Lab Sample ID: 720-57602-5

Date Collected: 05/16/14 10:00

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 16:53	PDR	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: HP-12

Lab Sample ID: 720-57602-6

Date Collected: 05/16/14 10:40

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	160061	05/27/14 16:37	ASC	TAL PLS

Client Sample ID: HP-11,3'

Lab Sample ID: 720-57602-7

Date Collected: 05/16/14 11:30

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159970	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159951	05/23/14 11:50	PDR	TAL PLS

Client Sample ID: HP-11,5'

Lab Sample ID: 720-57602-8

Date Collected: 05/16/14 11:40

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 17:22	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	160005	05/24/14 03:38	LPL	TAL PLS

Client Sample ID: HP-11,12'

Lab Sample ID: 720-57602-9

Date Collected: 05/16/14 11:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:11	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 17:52	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:11	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		2000	160005	05/24/14 04:06	LPL	TAL PLS

Client Sample ID: HP-11

Lab Sample ID: 720-57602-10

Date Collected: 05/16/14 13:00

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	160000	05/24/14 01:38	ASC	TAL PLS

Client Sample ID: HP-1,3'

Lab Sample ID: 720-57602-11

Date Collected: 05/16/14 13:30

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159970	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159951	05/23/14 12:19	PDR	TAL PLS

Client Sample ID: HP-1,5.5'

Lab Sample ID: 720-57602-12

Date Collected: 05/16/14 13:40

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159921	05/22/14 12:10	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159894	05/22/14 22:48	PDR	TAL PLS
Total/NA	Prep	5035			159993	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159982	05/23/14 19:34	PDR	TAL PLS

Client Sample ID: HP-1,11'

Lab Sample ID: 720-57602-13

Date Collected: 05/16/14 13:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159921	05/22/14 12:10	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159894	05/22/14 23:16	PDR	TAL PLS
Total/NA	Prep	5035			159993	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159982	05/23/14 20:04	PDR	TAL PLS

Client Sample ID: TB-1

Lab Sample ID: 720-57602-14

Date Collected: 05/16/14 08:00

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/23/14 21:45	ASC	TAL PLS

Client Sample ID: SV-11,10'

Lab Sample ID: 720-57602-15

Date Collected: 05/19/14 08:20

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 18:21	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/24/14 04:35	LPL	TAL PLS
Total/NA	Prep	3546			160398	05/30/14 22:53	STL	TAL PLS
Total/NA	Analysis	8270C SIM		1	160408	05/31/14 16:06	MQL	TAL PLS

Client Sample ID: SV-10,6.5"

Lab Sample ID: 720-57602-16

Date Collected: 05/19/14 08:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159970	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159951	05/23/14 12:48	PDR	TAL PLS
Total/NA	Prep	3546			160398	05/30/14 22:53	STL	TAL PLS
Total/NA	Analysis	8270C SIM		1	160408	05/31/14 16:29	MQL	TAL PLS

Client Sample ID: HP-13,4'

Lab Sample ID: 720-57602-17

Date Collected: 05/19/14 09:40

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159921	05/22/14 12:10	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159894	05/23/14 00:42	PDR	TAL PLS

Client Sample ID: HP-13,8'

Lab Sample ID: 720-57602-18

Date Collected: 05/19/14 09:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159917	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159920	05/22/14 19:55	PDR	TAL PLS

Client Sample ID: HP-13,12'

Lab Sample ID: 720-57602-19

Date Collected: 05/19/14 10:00

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159917	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159920	05/22/14 20:25	PDR	TAL PLS

Client Sample ID: HP-13

Lab Sample ID: 720-57602-20

Date Collected: 05/19/14 11:30

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/23/14 22:14	ASC	TAL PLS

Client Sample ID: HP-4,4'

Lab Sample ID: 720-57602-21

Date Collected: 05/19/14 10:40

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159917	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159920	05/22/14 20:55	PDR	TAL PLS

Client Sample ID: HP-4,8' — **Lab Sample ID: 720-57602-22**
Date Collected: 05/19/14 10:50 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159917	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159920	05/22/14 21:24	PDR	TAL PLS

Client Sample ID: HP-4,12' — **Lab Sample ID: 720-57602-23**
Date Collected: 05/19/14 11:00 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159917	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159920	05/22/14 21:54	PDR	TAL PLS

Client Sample ID: HP-4 — **Lab Sample ID: 720-57602-24**
Date Collected: 05/19/14 13:00 — **Matrix: Water**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/24/14 02:36	ASC	TAL PLS

Client Sample ID: HP-3,4' — **Lab Sample ID: 720-57602-25**
Date Collected: 05/19/14 13:10 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159917	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159920	05/22/14 22:24	PDR	TAL PLS

Client Sample ID: HP-3,9' — **Lab Sample ID: 720-57602-26**
Date Collected: 05/19/14 13:20 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/23/14 21:55	LPL	TAL PLS

Client Sample ID: HP-3,12' — **Lab Sample ID: 720-57602-27**
Date Collected: 05/19/14 13:30 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/23/14 22:23	LPL	TAL PLS
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS

Client Sample ID: HP-3,12'

Lab Sample ID: 720-57602-27

Date Collected: 05/19/14 13:30

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		500	160097	05/27/14 17:51	LPL	TAL PLS

Client Sample ID: HP-3

Lab Sample ID: 720-57602-28

Date Collected: 05/19/14 14:00

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/24/14 03:05	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		10	160061	05/27/14 17:05	ASC	TAL PLS

Client Sample ID: HP-2,2'

Lab Sample ID: 720-57602-29

Date Collected: 05/19/14 14:20

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159921	05/22/14 12:10	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159894	05/22/14 18:02	PDR	TAL PLS

Client Sample ID: HP-2,9'

Lab Sample ID: 720-57602-30

Date Collected: 05/19/14 14:30

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/23/14 22:52	LPL	TAL PLS
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160097	05/27/14 17:20	LPL	TAL PLS

Client Sample ID: HP-2,12'

Lab Sample ID: 720-57602-31

Date Collected: 05/19/14 14:40

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/23/14 23:20	LPL	TAL PLS

Client Sample ID: HP-2

Lab Sample ID: 720-57602-32

Date Collected: 05/20/14 09:10

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		100	160000	05/24/14 02:07	ASC	TAL PLS

Client Sample ID: SV-12,5.5'

Lab Sample ID: 720-57602-33

Date Collected: 05/20/14 08:20

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159970	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159951	05/23/14 13:16	PDR	TAL PLS
Total/NA	Prep	3546			160398	05/30/14 22:53	STL	TAL PLS
Total/NA	Analysis	8270C SIM		20	160408	05/31/14 16:53	MQL	TAL PLS

Client Sample ID: SV-12,8.5'

Lab Sample ID: 720-57602-34

Date Collected: 05/20/14 08:30

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/23/14 23:49	LPL	TAL PLS
Total/NA	Prep	3546			160398	05/30/14 22:53	STL	TAL PLS
Total/NA	Analysis	8270C SIM		1	160408	05/31/14 17:16	MQL	TAL PLS
Total/NA	Prep	3546			160398	05/30/14 22:53	STL	TAL PLS
Total/NA	Analysis	8270C SIM		10	160430	06/02/14 14:03	MQL	TAL PLS

Client Sample ID: HP-5,4'

Lab Sample ID: 720-57602-35

Date Collected: 05/20/14 10:00

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160092	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	160060	05/27/14 13:15	PDR	TAL PLS

Client Sample ID: HP-5,8'

Lab Sample ID: 720-57602-36

Date Collected: 05/20/14 10:10

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/22/14 22:16	PDR	TAL PLS

Client Sample ID: HP-5,12'

Lab Sample ID: 720-57602-37

Date Collected: 05/20/14 10:20

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/22/14 22:45	PDR	TAL PLS

Client Sample ID: HP-5

Lab Sample ID: 720-57602-38

Date Collected: 05/20/14 10:40

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/24/14 03:34	ASC	TAL PLS

Client Sample ID: HP-6,4'

Lab Sample ID: 720-57602-39

Date Collected: 05/20/14 11:10

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/22/14 23:14	PDR	TAL PLS

Client Sample ID: HP-6,8'

Lab Sample ID: 720-57602-40

Date Collected: 05/20/14 11:20

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/22/14 23:43	PDR	TAL PLS

Client Sample ID: HP-6,11'

Lab Sample ID: 720-57602-41

Date Collected: 05/20/14 11:30

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 00:13	PDR	TAL PLS

Client Sample ID: HP-6

Lab Sample ID: 720-57602-42

Date Collected: 05/20/14 12:20

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/24/14 04:03	ASC	TAL PLS

Client Sample ID: HP-7,4'

Lab Sample ID: 720-57602-43

Date Collected: 05/20/14 12:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 00:42	PDR	TAL PLS

Client Sample ID: HP-7,8' — **Lab Sample ID: 720-57602-44**
Date Collected: 05/20/14 13:00 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 01:11	PDR	TAL PLS

Client Sample ID: HP-7,11' — **Lab Sample ID: 720-57602-45**
Date Collected: 05/20/14 13:10 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 01:41	PDR	TAL PLS

Client Sample ID: SV-9,4.5' — **Lab Sample ID: 720-57602-46**
Date Collected: 05/20/14 14:30 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 02:10	PDR	TAL PLS

Client Sample ID: SV-9,8' — **Lab Sample ID: 720-57602-47**
Date Collected: 05/20/14 14:40 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 18:50	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	160005	05/24/14 05:04	LPL	TAL PLS

Client Sample ID: SV-6,4' — **Lab Sample ID: 720-57602-48**
Date Collected: 05/21/14 07:50 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 03:08	PDR	TAL PLS

Client Sample ID: SV-6,9' — **Lab Sample ID: 720-57602-49**
Date Collected: 05/21/14 08:00 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS

Client Sample ID: SV-6,9' — **Lab Sample ID: 720-57602-49**
Date Collected: 05/21/14 08:00 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 03:37	PDR	TAL PLS

Client Sample ID: HP-7' — **Lab Sample ID: 720-57602-50**
Date Collected: 05/21/14 09:20 — **Matrix: Water**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/24/14 04:32	ASC	TAL PLS

Client Sample ID: HP-8,4' — **Lab Sample ID: 720-57602-51**
Date Collected: 05/21/14 10:10 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 04:06	PDR	TAL PLS

Client Sample ID: HP-8,8' — **Lab Sample ID: 720-57602-52**
Date Collected: 05/21/14 10:20 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 04:35	PDR	TAL PLS

Client Sample ID: HP-8,11.5' — **Lab Sample ID: 720-57602-53**
Date Collected: 05/21/14 10:30 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 05:05	PDR	TAL PLS

Client Sample ID: HP-9,4' — **Lab Sample ID: 720-57602-54**
Date Collected: 05/21/14 11:00 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 05:34	PDR	TAL PLS

Client Sample ID: HP-9,8'

Lab Sample ID: 720-57602-55

Date Collected: 05/21/14 11:10

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159938	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159915	05/23/14 06:03	PDR	TAL PLS

Client Sample ID: HP-9,12'

Lab Sample ID: 720-57602-56

Date Collected: 05/21/14 11:20

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159941	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159914	05/22/14 22:02	PDR	TAL PLS

Client Sample ID: HP-9

Lab Sample ID: 720-57602-57

Date Collected: 05/21/14 11:30

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/24/14 05:02	ASC	TAL PLS

Client Sample ID: HP-8

Lab Sample ID: 720-57602-58

Date Collected: 05/21/14 13:20

Matrix: Water

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	160000	05/24/14 05:31	ASC	TAL PLS

Client Sample ID: HP-10,4'

Lab Sample ID: 720-57602-59

Date Collected: 05/21/14 12:40

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159941	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159914	05/22/14 22:30	PDR	TAL PLS

Client Sample ID: HP-10,8'

Lab Sample ID: 720-57602-60

Date Collected: 05/21/14 12:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159941	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159914	05/22/14 22:59	PDR	TAL PLS

Client Sample ID: HP-10,11.5' — **Lab Sample ID: 720-57602-61**
Date Collected: 05/21/14 13:00 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159941	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159914	05/22/14 23:27	PDR	TAL PLS

Client Sample ID: SV-13,10' — **Lab Sample ID: 720-57602-62**
Date Collected: 05/21/14 15:30 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	159950	05/23/14 19:20	PDR	TAL PLS
Total/NA	Prep	5035			159977	05/22/14 12:10	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	160005	05/24/14 05:32	LPL	TAL PLS

Client Sample ID: SV-5,4' — **Lab Sample ID: 720-57602-63**
Date Collected: 05/22/14 08:00 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159941	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159914	05/23/14 00:25	PDR	TAL PLS

Client Sample ID: SV-5,8.5' — **Lab Sample ID: 720-57602-64**
Date Collected: 05/22/14 08:10 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/24/14 00:46	LPL	TAL PLS

Client Sample ID: SV-7,5' — **Lab Sample ID: 720-57602-65**
Date Collected: 05/22/14 08:40 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159941	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	159914	05/23/14 01:22	PDR	TAL PLS

Client Sample ID: SV-8,5.5' — **Lab Sample ID: 720-57602-67**
Date Collected: 05/22/14 09:50 — **Matrix: Solid**
Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			159941	05/22/14 12:10	LPL	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Client Sample ID: SV-8,5.5'

Lab Sample ID: 720-57602-67

Date Collected: 05/22/14 09:50

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	159914	05/23/14 01:50	PDR	TAL PLS

Client Sample ID: SV-8,8'

Lab Sample ID: 720-57602-68

Date Collected: 05/22/14 10:00

Matrix: Solid

Date Received: 05/22/14 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		100	160005	05/24/14 01:15	LPL	TAL PLS
Total/NA	Prep	5035			160003	05/22/14 12:10	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		500	160097	05/27/14 18:21	LPL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-57602-1	SV-14,3'	Solid	05/16/14 08:20	05/22/14 12:15
720-57602-2	SV-14,6'	Solid	05/16/14 08:30	05/22/14 12:15
720-57602-3	HP-12,,3'	Solid	05/16/14 09:40	05/22/14 12:15
720-57602-4	HP-12,8'	Solid	05/16/14 09:50	05/22/14 12:15
720-57602-5	HP-12,11'	Solid	05/16/14 10:00	05/22/14 12:15
720-57602-6	HP-12	Water	05/16/14 10:40	05/22/14 12:15
720-57602-7	HP-11,3'	Solid	05/16/14 11:30	05/22/14 12:15
720-57602-8	HP-11,5'	Solid	05/16/14 11:40	05/22/14 12:15
720-57602-9	HP-11,12'	Solid	05/16/14 11:50	05/22/14 12:15
720-57602-10	HP-11	Water	05/16/14 13:00	05/22/14 12:15
720-57602-11	HP-1,3'	Solid	05/16/14 13:30	05/22/14 12:15
720-57602-12	HP-1,5.5'	Solid	05/16/14 13:40	05/22/14 12:15
720-57602-13	HP-1,11'	Solid	05/16/14 13:50	05/22/14 12:15
720-57602-14	TB-1	Water	05/16/14 08:00	05/22/14 12:15
720-57602-15	SV-11,10'	Solid	05/19/14 08:20	05/22/14 12:15
720-57602-16	SV-10,6.5"	Solid	05/19/14 08:50	05/22/14 12:15
720-57602-17	HP-13,4'	Solid	05/19/14 09:40	05/22/14 12:15
720-57602-18	HP-13,8'	Solid	05/19/14 09:50	05/22/14 12:15
720-57602-19	HP-13,12'	Solid	05/19/14 10:00	05/22/14 12:15
720-57602-20	HP-13	Water	05/19/14 11:30	05/22/14 12:15
720-57602-21	HP-4,4'	Solid	05/19/14 10:40	05/22/14 12:15
720-57602-22	HP-4,8'	Solid	05/19/14 10:50	05/22/14 12:15
720-57602-23	HP-4,12'	Solid	05/19/14 11:00	05/22/14 12:15
720-57602-24	HP-4	Water	05/19/14 13:00	05/22/14 12:15
720-57602-25	HP-3,4'	Solid	05/19/14 13:10	05/22/14 12:15
720-57602-26	HP-3,9'	Solid	05/19/14 13:20	05/22/14 12:15
720-57602-27	HP-3,12'	Solid	05/19/14 13:30	05/22/14 12:15
720-57602-28	HP-3	Water	05/19/14 14:00	05/22/14 12:15
720-57602-29	HP-2,2'	Solid	05/19/14 14:20	05/22/14 12:15
720-57602-30	HP-2,9'	Solid	05/19/14 14:30	05/22/14 12:15
720-57602-31	HP-2,12'	Solid	05/19/14 14:40	05/22/14 12:15
720-57602-32	HP-2	Water	05/20/14 09:10	05/22/14 12:15
720-57602-33	SV-12,5.5'	Solid	05/20/14 08:20	05/22/14 12:15
720-57602-34	SV-12,8.5'	Solid	05/20/14 08:30	05/22/14 12:15
720-57602-35	HP-5,4'	Solid	05/20/14 10:00	05/22/14 12:15
720-57602-36	HP-5,8'	Solid	05/20/14 10:10	05/22/14 12:15
720-57602-37	HP-5,12'	Solid	05/20/14 10:20	05/22/14 12:15
720-57602-38	HP-5	Water	05/20/14 10:40	05/22/14 12:15
720-57602-39	HP-6,4'	Solid	05/20/14 11:10	05/22/14 12:15
720-57602-40	HP-6,8'	Solid	05/20/14 11:20	05/22/14 12:15
720-57602-41	HP-6,11'	Solid	05/20/14 11:30	05/22/14 12:15
720-57602-42	HP-6	Water	05/20/14 12:20	05/22/14 12:15
720-57602-43	HP-7,4'	Solid	05/20/14 12:50	05/22/14 12:15
720-57602-44	HP-7,8'	Solid	05/20/14 13:00	05/22/14 12:15
720-57602-45	HP-7,11'	Solid	05/20/14 13:10	05/22/14 12:15
720-57602-46	SV-9,4.5'	Solid	05/20/14 14:30	05/22/14 12:15
720-57602-47	SV-9,8'	Solid	05/20/14 14:40	05/22/14 12:15
720-57602-48	SV-6,4'	Solid	05/21/14 07:50	05/22/14 12:15
720-57602-49	SV-6,9'	Solid	05/21/14 08:00	05/22/14 12:15
720-57602-50	HP-7'	Water	05/21/14 09:20	05/22/14 12:15
720-57602-51	HP-8,4'	Solid	05/21/14 10:10	05/22/14 12:15
720-57602-52	HP-8,8'	Solid	05/21/14 10:20	05/22/14 12:15
720-57602-53	HP-8,11.5'	Solid	05/21/14 10:30	05/22/14 12:15

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-57602-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-57602-54	HP-9,4'	Solid	05/21/14 11:00	05/22/14 12:15
720-57602-55	HP-9,8'	Solid	05/21/14 11:10	05/22/14 12:15
720-57602-56	HP-9,12'	Solid	05/21/14 11:20	05/22/14 12:15
720-57602-57	HP-9	Water	05/21/14 11:30	05/22/14 12:15
720-57602-58	HP-8	Water	05/21/14 13:20	05/22/14 12:15
720-57602-59	HP-10,4'	Solid	05/21/14 12:40	05/22/14 12:15
720-57602-60	HP-10,8'	Solid	05/21/14 12:50	05/22/14 12:15
720-57602-61	HP-10,11.5'	Solid	05/21/14 13:00	05/22/14 12:15
720-57602-62	SV-13,10'	Solid	05/21/14 15:30	05/22/14 12:15
720-57602-63	SV-5,4'	Solid	05/22/14 08:00	05/22/14 12:15
720-57602-64	SV-5,8.5'	Solid	05/22/14 08:10	05/22/14 12:15
720-57602-65	SV-7,5'	Solid	05/22/14 08:40	05/22/14 12:15
720-57602-67	SV-8,5.5'	Solid	05/22/14 09:50	05/22/14 12:15
720-57602-68	SV-8,8'	Solid	05/22/14 10:00	05/22/14 12:15

720-57602

CHAIN OF CUSTODY RECORD

153940

6/3/2014

Stantec
Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702848

DATE: 5-16-14

PAGE: 1 OF 5

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [X] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	PAHs by 8270C/D	Laboratory Notes
1	SV-14, 3'	5-16-14	820	S	3	Y	X		
2	SV-14, 6'		830						
3	HP-12, 3'		940						
4	HP-12, 8'		950						
5	HP-12, 11'		1000						
6	HP-12		1040	W	3	HCL			
7	HP-11, 3'		1130	S	3	Y			
8	HP-11, 5'		1140						
9	HP-11, 12'		1150						
10	HP-11		1300	W	3	HCL			
11	HP-1, 3'		1330	S	3	Y			
12	HP-1, 5.5'		1340						
13	HP-1, 11'		1350						
14	TB-1		800	W	3	HCL			

720-57602 Chain of Custody

5.6°C / 4.6°C

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5-22-14	1215		5-22-14	1215
Relinquished by: (Signature)	Date	Time	Received by: (Signature)		Time
Relinquished by: (Signature)	Date:	Time	Received by: (Signature)		Time:

720-57602

CHAIN OF CUSTODY RECORD

153940

6/3/2014

Stantec
Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702848

DATE: 5-19-14

PAGE: 2 OF 5

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [x] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	PAHs by 8270C/D									Laboratory Notes
15	SV-11, 10'	5-19-14	820	S	4	Y	X	X									
16	SV-10, 6.5'	"	850	"	4	"	X	X									
17	HP-13, 4'	"	940	"	3	"	X										
18	HP-13, 8'	"	950	"	"	"	"										
19	HP-13, 12'	"	1000	"	"	"	"										
20	HP-13	"	1130	W	3	HCL	"										
21	HP-4, 4'	"	1040	S	3	Y	"										
22	HP-4, 8'	"	1050	"	"	"	"										
23	HP-4, 12'	"	1100	"	"	"	"										
24	HP-4	"	1300	W	3	HCL	"										
25	HP-3, 4'	"	1310	S	3	Y	"										
26	HP-3, 9'	"	1320	"	"	"	"										
27	HP-3, 12'	"	1330	"	"	"	"										
28	HP-3	"	1400	W	3	HCL	"										

	Date	Time			Time
Relinquished by (Signature)	5-22-14	1215	Received by (Signature)	5-22-14	1215
Relinquished by (Signature)	Date	Time	Received by (Signature)		Time
Relinquished by (Signature)	Date	Time	Received by (Signature)		Time

720-57602

CHAIN OF CUSTODY RECORD

453940

Stantec
Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702848

DATE: 5-19&20-14

PAGE: 3 OF 5

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [X] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	PAHs by 8270C/D									Laboratory Notes
29	HP-2, 2'	5-19-14	1420	S	3	X	X										
30	HP-2, 9'	↓	1430	↓	↓	↓	X										
31	HP-2, 12'	↓	1440	↓	↓	↓	X										
32	HP-2	5-20-14	910	W	3	HCL	X										
33	SV-12, 5.5'	↓	820	S	4	X	X	X									
34	SV-12, 8.5'	↓	830	↓	4	↓	X	X									
35	HP-5, 4'	↓	1000	↓	3	↓	X										
36	HP-5, 8'	↓	1010	↓	↓	↓	X										
37	HP-5, 12'	↓	1020	↓	↓	↓	X										
38	HP-5	↓	1040	W	3	HCL	X										
39	HP-6, 4'	↓	1110	S	3	X	X										
40	HP-6, 8'	↓	1120	↓	↓	↓	X										
41	HP-6, 11'	↓	1130	↓	↓	↓	X										
42	HP-6	↓	1220	W	3	HCL	X										

	Date	Time		Date	Time
Relinquished by: (Signature)	5-22-14	1215	Received by (Signature)	5-22-14	1215
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		Time:
Relinquished by: (Signature)	Date:	Time	Received by: (Signature)		Time:

6/3/2014

720-57602

CHAIN OF CUSTODY RECORD

153940

6/3/2014

Stantec

Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702848

DATE: 5-21-14

PAGE: 4 OF 5

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [x] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	PAHs by 8270C/D	Laboratory Notes
43	HP-7, 4'	5-20-14	1250	S	3	Y	X		
44	HP-7, 8'		1300				X		
45	HP-7, 11'		1310				X		
46	SV-9, 4.5'		1430				X		
47	SV-9, 8'		1440				X		
48	SV-6, 4'	5-21-14	750				X		
49	SV-6, 9'		800				X		
50	HP-7'		920	W	3	HCL	X		
51	HP-8, 4'		1010	S	3	Y	X		
52	HP-8, 8'		1020				X		
53	HP-8, 11.5'		1030				X		
54	HP-9, 4'		1100				X		
55	HP-9, 8'		1110				X		
56	HP-9, 12'		1120				X		
57	HP-9		1130	W	3	HCL	X		

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	5-22-14	1215	Doreen Mullen	5-22-14	1215
Relinquished by (Signature)	Date.	Time	Received by: (Signature)		Time:
Relinquished by (Signature)	Date.	Time:	Received by (Signature)		Time.

720-57602

CHAIN OF CUSTODY RECORD

153940

Stantec
Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702848

DATE: 5-22-14

PAGE: 5 OF 5

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [x] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	PAHs by 8270C/D	Hold	Laboratory Notes
58	HP-8	5-21-14	1320	W	3	HCL	X			
59	HP-10, 4'		1240	S	3	Y	X			
60	HP-10, 8'		1250				X			
61	HP-10, 11.5'		1300				X			
62	SV-13, 10'		1530				X			
63	SV-5, 4'	5-22-14	800				X			
64	SV-5, 8.5'		810				X			
65	SV-7, 5'		840				X			
66	SV-7		920	W	3	none			X	no pres. - short hold
67	SV-8, 5.5'		950	S	3	Y	X			
68	SV-8, 8'		1000	S	3	Y	X			

	Date:	Time:			Time:
Relinquished by: (Signature)	5-22-14	1215	Received by: (Signature)	5-22-14	1215
Relinquished by (Signature)	Date:	Time:	Received by (Signature)		Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		Time:

6/3/2014

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-57602-1

Login Number: 57602

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-60237-1
Client Project/Site: Bohannon San Lorenzo

For:
Stantec Consulting Corp.
1340 Treat Blvd
Suite 300
Walnut Creek, California 94597

Attn: Mrs. Eva Hey

Authorized for release by:
10/14/2014 4:18:16 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

Table of Contents

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-60237-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-60237-1

Comments
No additional comments.

Receipt
The samples were received on 9/30/2014 12:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: TB-1 — Lab Sample ID: 720-60237-1

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 720-60237-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	0.51		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	0.74		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1100		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: NOBS-B1 — Lab Sample ID: 720-60237-3

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 720-60237-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	370		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	5.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	830		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: POBS-B2 — Lab Sample ID: 720-60237-5

No Detections.

Client Sample ID: POBS-B1 — Lab Sample ID: 720-60237-6

No Detections.

Client Sample ID: POBS-A1 — Lab Sample ID: 720-60237-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	870		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	3.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	17		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	9.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2200		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-5 — Lab Sample ID: 720-60237-8

No Detections.

Client Sample ID: MW-1 — Lab Sample ID: 720-60237-9

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 720-60237-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	8.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	7.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2000		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 720-60237-11

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 720-60237-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: TB-1
Date Collected: 09/29/14 10:20
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 13:38	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 13:38	1
Toluene	ND		0.50		ug/L			10/10/14 13:38	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 13:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*67 - 130*		*10/10/14 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*		*10/10/14 13:38*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/10/14 13:38*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-4
Date Collected: 09/29/14 11:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**14**		0.50		ug/L			10/13/14 14:29	1
Ethylbenzene	**0.51**		0.50		ug/L			10/13/14 14:29	1
Toluene	**0.74**		0.50		ug/L			10/13/14 14:29	1
Xylenes, Total	ND		1.0		ug/L			10/13/14 14:29	1
Gasoline Range Organics (GRO) -C5-C12	**1100**		50		ug/L			10/13/14 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*67 - 130*		*10/13/14 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*10/13/14 14:29*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/13/14 14:29*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: NOBS-B1
Date Collected: 09/29/14 11:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 22:26	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 22:26	1
Toluene	ND		0.50		ug/L			10/10/14 22:26	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 22:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*10/10/14 22:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*10/10/14 22:26*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/14 22:26*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-3
Date Collected: 09/29/14 12:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	370		5.0		ug/L			10/13/14 12:59	10
Ethylbenzene	1.0		0.50		ug/L			10/10/14 22:56	1
Toluene	5.9		0.50		ug/L			10/10/14 22:56	1
Xylenes, Total	1.8		1.0		ug/L			10/10/14 22:56	1
Gasoline Range Organics (GRO) -C5-C12	830		50		ug/L			10/10/14 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*67 - 130*		*10/10/14 22:56*	*1*
4-Bromofluorobenzene	*101*		*67 - 130*		*10/13/14 12:59*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*10/10/14 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*10/13/14 12:59*	*10*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/14 22:56*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/13/14 12:59*	*10*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-B2
Date Collected: 09/29/14 13:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 23:26	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 23:26	1
Toluene	ND		0.50		ug/L			10/10/14 23:26	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 23:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*10/10/14 23:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*10/10/14 23:26*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/14 23:26*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-B1
Date Collected: 09/29/14 13:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 23:56	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 23:56	1
Toluene	ND		0.50		ug/L			10/10/14 23:56	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 23:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*10/10/14 23:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*10/10/14 23:56*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/10/14 23:56*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-A1
Date Collected: 09/29/14 14:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	870		10		ug/L			10/13/14 15:00	20
Ethylbenzene	3.5		0.50		ug/L			10/11/14 00:26	1
Toluene	17		0.50		ug/L			10/11/14 00:26	1
Xylenes, Total	9.1		1.0		ug/L			10/11/14 00:26	1
Gasoline Range Organics (GRO) -C5-C12	2200		50		ug/L			10/11/14 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*10/11/14 00:26*	*1*
4-Bromofluorobenzene	*100*		*67 - 130*		*10/13/14 15:00*	*20*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*10/11/14 00:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*10/13/14 15:00*	*20*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/11/14 00:26*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/13/14 15:00*	*20*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-5
Date Collected: 09/30/14 07:50
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 15:26	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 15:26	1
Toluene	ND		0.50		ug/L			10/11/14 15:26	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 15:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*10/11/14 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 130*		*10/11/14 15:26*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/11/14 15:26*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-1
Date Collected: 09/30/14 08:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 15:55	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 15:55	1
Toluene	ND		0.50		ug/L			10/11/14 15:55	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 15:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*10/11/14 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*10/11/14 15:55*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/11/14 15:55*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-2
Date Collected: 09/30/14 09:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	180		0.50		ug/L			10/11/14 16:25	1
Ethylbenzene	1.9		0.50		ug/L			10/11/14 16:25	1
Toluene	8.0		0.50		ug/L			10/11/14 16:25	1
Xylenes, Total	7.7		1.0		ug/L			10/11/14 16:25	1
Gasoline Range Organics (GRO) -C5-C12	2000		50		ug/L			10/11/14 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*67 - 130*		*10/11/14 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*10/11/14 16:25*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/11/14 16:25*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-7
Date Collected: 09/30/14 10:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-11
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 16:55	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 16:55	1
Toluene	ND		0.50		ug/L			10/11/14 16:55	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 16:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*10/11/14 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*10/11/14 16:55*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/11/14 16:55*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-6
Date Collected: 09/30/14 11:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-12
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 17:25	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 17:25	1
Toluene	ND		0.50		ug/L			10/11/14 17:25	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 17:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*10/11/14 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*10/11/14 17:25*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/11/14 17:25*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-168571/4
Matrix: Water
Analysis Batch: 168571

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 09:08	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 09:08	1
Toluene	ND		0.50		ug/L			10/10/14 09:08	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 09:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*10/10/14 09:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*10/10/14 09:08*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/14 09:08*	*1*

Lab Sample ID: LCS 720-168571/5
Matrix: Water
Analysis Batch: 168571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.0		ug/L		92	79 - 130
Ethylbenzene	25.0	23.9		ug/L		95	80 - 120
Toluene	25.0	23.2		ug/L		93	78 - 120
m-Xylene & p-Xylene	25.0	23.8		ug/L		95	70 - 142
o-Xylene	25.0	23.5		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCS 720-168571/7
Matrix: Water
Analysis Batch: 168571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	527		ug/L		105	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 720-168571/6
Matrix: Water
Analysis Batch: 168571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.6		ug/L		95	79 - 130	3	20
Ethylbenzene	25.0	23.9		ug/L		96	80 - 120	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-168571/6
Matrix: Water
Analysis Batch: 168571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	23.6		ug/L		94	78 - 120	2	20
m-Xylene & p-Xylene			25.0	23.8		ug/L		95	70 - 142	0	20
o-Xylene			25.0	24.1		ug/L		96	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 720-168571/8
Matrix: Water
Analysis Batch: 168571

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	527		ug/L		105	62 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 720-168619/5
Matrix: Water
Analysis Batch: 168619

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 19:57	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 19:57	1
Toluene	ND		0.50		ug/L			10/10/14 19:57	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 19:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 19:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*10/10/14 19:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*10/10/14 19:57*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/10/14 19:57*	*1*

Lab Sample ID: LCS 720-168619/6
Matrix: Water
Analysis Batch: 168619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			25.0	23.6		ug/L		94	79 - 130
Ethylbenzene			25.0	23.5		ug/L		94	80 - 120
Toluene			25.0	22.9		ug/L		92	78 - 120
m-Xylene & p-Xylene			25.0	23.4		ug/L		93	70 - 142

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-168619/6
Matrix: Water
Analysis Batch: 168619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			25.0	23.9		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCS 720-168619/8
Matrix: Water
Analysis Batch: 168619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	514		ug/L		103	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 720-168619/7
Matrix: Water
Analysis Batch: 168619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	23.7		ug/L		95	79 - 130	0	20
Ethylbenzene			25.0	23.8		ug/L		95	80 - 120	1	20
Toluene			25.0	23.3		ug/L		93	78 - 120	2	20
m-Xylene & p-Xylene			25.0	23.6		ug/L		94	70 - 142	1	20
o-Xylene			25.0	24.2		ug/L		97	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 720-168619/9
Matrix: Water
Analysis Batch: 168619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	508		ug/L		102	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-168619/9
Matrix: Water
Analysis Batch: 168619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 720-60237-6 MS
Matrix: Water
Analysis Batch: 168619

Client Sample ID: POBS-B1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	23.6		ug/L		94	60 - 140
Ethylbenzene	ND		25.0	22.5		ug/L		90	60 - 140
Toluene	ND		25.0	22.5		ug/L		90	60 - 140
m-Xylene & p-Xylene	ND		25.0	22.3		ug/L		89	60 - 140
o-Xylene	ND		25.0	23.1		ug/L		92	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 720-60237-6 MSD
Matrix: Water
Analysis Batch: 168619

Client Sample ID: POBS-B1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	23.0		ug/L		92	60 - 140	2	20
Ethylbenzene	ND		25.0	22.6		ug/L		90	60 - 140	0	20
Toluene	ND		25.0	22.2		ug/L		89	60 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	22.5		ug/L		90	60 - 140	1	20
o-Xylene	ND		25.0	23.3		ug/L		93	60 - 140	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 720-168647/4
Matrix: Water
Analysis Batch: 168647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 10:42	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 10:42	1
Toluene	ND		0.50		ug/L			10/11/14 10:42	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 10:42	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 10:42	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-168647/4
Matrix: Water
Analysis Batch: 168647

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		67 - 130		10/11/14 10:42	1
1,2-Dichloroethane-d4 (Surr)	96		72 - 130		10/11/14 10:42	1
Toluene-d8 (Surr)	84		70 - 130		10/11/14 10:42	1

Lab Sample ID: LCS 720-168647/7
Matrix: Water
Analysis Batch: 168647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	537		ug/L		107	62 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-168647/9
Matrix: Water
Analysis Batch: 168647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	24.2		ug/L		97	79 - 130		
Ethylbenzene			25.0	23.5		ug/L		94	80 - 120		
Toluene			25.0	28.3		ug/L		113	78 - 120		
m-Xylene & p-Xylene			25.0	23.9		ug/L		96	70 - 142		
o-Xylene			25.0	24.5		ug/L		98	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	88		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-168647/10
Matrix: Water
Analysis Batch: 168647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	24.3		ug/L		97	79 - 130	0	20
Ethylbenzene			25.0	23.3		ug/L		93	80 - 120	0	20
Toluene			25.0	23.3		ug/L		93	78 - 120	19	20
m-Xylene & p-Xylene			25.0	23.4		ug/L		94	70 - 142	2	20
o-Xylene			25.0	23.9		ug/L		95	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	88		72 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-168647/10
Matrix: Water
Analysis Batch: 168647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 720-168647/8
Matrix: Water
Analysis Batch: 168647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	446		ug/L		89	62 - 120	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*80*		*70 - 130*

Lab Sample ID: 720-60237-8 MS
Matrix: Water
Analysis Batch: 168647

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		25.0	24.4		ug/L		97	60 - 140		
Ethylbenzene	ND		25.0	23.7		ug/L		95	60 - 140		
Toluene	ND		25.0	29.6		ug/L		118	60 - 140		
m-Xylene & p-Xylene	ND		25.0	23.4		ug/L		94	60 - 140		
o-Xylene	ND		25.0	24.1		ug/L		96	60 - 140		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 720-60237-8 MSD
Matrix: Water
Analysis Batch: 168647

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.2		ug/L		97	60 - 140	1	20
Ethylbenzene	ND		25.0	23.9		ug/L		96	60 - 140	1	20
Toluene	ND		25.0	23.3	F2	ug/L		93	60 - 140	24	20
m-Xylene & p-Xylene	ND		25.0	23.7		ug/L		95	60 - 140	1	20
o-Xylene	ND		25.0	24.1		ug/L		96	60 - 140	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-168671/5
Matrix: Water
Analysis Batch: 168671

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/13/14 10:15	1
Ethylbenzene	ND		0.50		ug/L			10/13/14 10:15	1
Toluene	ND		0.50		ug/L			10/13/14 10:15	1
Xylenes, Total	ND		1.0		ug/L			10/13/14 10:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/13/14 10:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*10/13/14 10:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*10/13/14 10:15*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/13/14 10:15*	*1*

Lab Sample ID: LCS 720-168671/6
Matrix: Water
Analysis Batch: 168671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	24.0		ug/L		96	79 - 130		
Ethylbenzene			25.0	24.7		ug/L		99	80 - 120		
Toluene			25.0	23.8		ug/L		95	78 - 120		
m-Xylene & p-Xylene			25.0	24.5		ug/L		98	70 - 142		
o-Xylene			25.0	25.0		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCS 720-168671/8
Matrix: Water
Analysis Batch: 168671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	568		ug/L		114	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 720-168671/7
Matrix: Water
Analysis Batch: 168671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	23.5		ug/L		94	79 - 130	2	20
Ethylbenzene			25.0	24.0		ug/L		96	80 - 120	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-168671/7
Matrix: Water
Analysis Batch: 168671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	23.4		ug/L		94	78 - 120	2	20
m-Xylene & p-Xylene			25.0	24.1		ug/L		96	70 - 142	2	20
o-Xylene			25.0	24.2		ug/L		97	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 720-168671/9
Matrix: Water
Analysis Batch: 168671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	553		ug/L		111	62 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

GC/MS VOA

Analysis Batch: 168571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-1	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168571/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168571/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168571/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168571/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168571/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 168619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-3	NOBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-5	POBS-B2	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-6	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-6 MS	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-6 MSD	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-7	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168619/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168619/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168619/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168619/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168619/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 168647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-8	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-8 MS	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-8 MSD	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-9	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-10	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-11	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-12	MW-6	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 168647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-168647/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168647/9	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168647/10	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168647/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168647/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 168671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-2	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-7	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168671/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168671/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168671/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168671/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168671/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: TB-1

Lab Sample ID: 720-60237-1

Date Collected: 09/29/14 10:20
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168571	10/10/14 13:38	ASC	TAL PLS

Client Sample ID: MW-4

Lab Sample ID: 720-60237-2

Date Collected: 09/29/14 11:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168671	10/13/14 14:29	ASC	TAL PLS

Client Sample ID: NOBS-B1

Lab Sample ID: 720-60237-3

Date Collected: 09/29/14 11:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 22:26	PDR	TAL PLS

Client Sample ID: MW-3

Lab Sample ID: 720-60237-4

Date Collected: 09/29/14 12:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 22:56	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		10	168671	10/13/14 12:59	ASC	TAL PLS

Client Sample ID: POBS-B2

Lab Sample ID: 720-60237-5

Date Collected: 09/29/14 13:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 23:26	PDR	TAL PLS

Client Sample ID: POBS-B1

Lab Sample ID: 720-60237-6

Date Collected: 09/29/14 13:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 23:56	PDR	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-A1

Lab Sample ID: 720-60237-7

Date Collected: 09/29/14 14:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/11/14 00:26	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		20	168671	10/13/14 15:00	ASC	TAL PLS

Client Sample ID: MW-5

Lab Sample ID: 720-60237-8

Date Collected: 09/30/14 07:50
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 15:26	ASC	TAL PLS

Client Sample ID: MW-1

Lab Sample ID: 720-60237-9

Date Collected: 09/30/14 08:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 15:55	ASC	TAL PLS

Client Sample ID: MW-2

Lab Sample ID: 720-60237-10

Date Collected: 09/30/14 09:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 16:25	ASC	TAL PLS

Client Sample ID: MW-7

Lab Sample ID: 720-60237-11

Date Collected: 09/30/14 10:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 16:55	ASC	TAL PLS

Client Sample ID: MW-6

Lab Sample ID: 720-60237-12

Date Collected: 09/30/14 11:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 17:25	ASC	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-60237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-60237-1	TB-1	Water	09/29/14 10:20	09/30/14 12:10
720-60237-2	MW-4	Water	09/29/14 11:00	09/30/14 12:10
720-60237-3	NOBS-B1	Water	09/29/14 11:30	09/30/14 12:10
720-60237-4	MW-3	Water	09/29/14 12:30	09/30/14 12:10
720-60237-5	POBS-B2	Water	09/29/14 13:00	09/30/14 12:10
720-60237-6	POBS-B1	Water	09/29/14 13:30	09/30/14 12:10
720-60237-7	POBS-A1	Water	09/29/14 14:00	09/30/14 12:10
720-60237-8	MW-5	Water	09/30/14 07:50	09/30/14 12:10
720-60237-9	MW-1	Water	09/30/14 08:30	09/30/14 12:10
720-60237-10	MW-2	Water	09/30/14 09:00	09/30/14 12:10
720-60237-11	MW-7	Water	09/30/14 10:00	09/30/14 12:10
720-60237-12	MW-6	Water	09/30/14 11:00	09/30/14 12:10

720-60237

156589

CHAIN OF CUSTODY RECORD

Stantec

Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702934

DATE: 9-30-14

PAGE: 1 OF 1

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo, CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [X] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C): 3.7c

REQUESTED ANALYSIS

720-60237 Chain of Custody

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	Laboratory Notes
	TB-1	9-29-14	1020	W	3	HCL	X	
	MW-4		1100					
	NOBS-B1		1130					
	MW-3		1230					
	POBS-B2		1300					
	POBS-B1		1330					
	POBS-A1		1400					
	MW-5	9-30-14	750					
	MW-1		830					
	MW-2		900					
	MW-7		1000					
	MW-6		1100					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9-30-14	1210		9-30-14	1210
Relinquished by: (Signature)	Date	Time:	Received by: (Signature)		Time
Relinquished by (Signature)	Date	Time:	Received by: (Signature)		Time

10/14/2014

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-60237-1

Login Number: 60237

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-61249-1
Client Project/Site: Bohannon San Lorenzo

For:
Stantec Consulting Corp.
1340 Treat Blvd
Suite 300
Walnut Creek, California 94597

Attn: Mrs. Eva Hey

Authorized for release by:
11/17/2014 3:40:55 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

Table of Contents

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-61249-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-61249-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2014 4:52 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Client Sample ID: SV-15, 4.5' **Lab Sample ID: 720-61249-1**

No Detections.

Client Sample ID: SV-16, 4.5' **Lab Sample ID: 720-61249-2**

No Detections.

Client Sample ID: SV-17, 4.5' **Lab Sample ID: 720-61249-3**

No Detections.

Client Sample ID: SV-18, 4.5' **Lab Sample ID: 720-61249-4**

No Detections.

Client Sample ID: SV-19, 4.5' **Lab Sample ID: 720-61249-5**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Client Sample ID: SV-15, 4.5'
Date Collected: 11/13/14 11:45
Date Received: 11/14/14 16:52

Lab Sample ID: 720-61249-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.1		ug/Kg		11/14/14 20:17	11/14/14 23:03	1
Ethylbenzene	ND		4.1		ug/Kg		11/14/14 20:17	11/14/14 23:03	1
Toluene	ND		4.1		ug/Kg		11/14/14 20:17	11/14/14 23:03	1
Xylenes, Total	ND		8.2		ug/Kg		11/14/14 20:17	11/14/14 23:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		11/14/14 20:17	11/14/14 23:03	1
Naphthalene	ND		8.2		ug/Kg		11/14/14 20:17	11/14/14 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*11/14/14 20:17*	*11/14/14 23:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*	*11/14/14 20:17*	*11/14/14 23:03*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*11/14/14 20:17*	*11/14/14 23:03*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Client Sample ID: SV-16, 4.5'
Date Collected: 11/13/14 11:50
Date Received: 11/14/14 16:52

Lab Sample ID: 720-61249-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.7		ug/Kg		11/14/14 20:17	11/14/14 23:31	1
Ethylbenzene	ND		3.7		ug/Kg		11/14/14 20:17	11/14/14 23:31	1
Toluene	ND		3.7		ug/Kg		11/14/14 20:17	11/14/14 23:31	1
Xylenes, Total	ND		7.5		ug/Kg		11/14/14 20:17	11/14/14 23:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		11/14/14 20:17	11/14/14 23:31	1
Naphthalene	ND		7.5		ug/Kg		11/14/14 20:17	11/14/14 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*11/14/14 20:17*	*11/14/14 23:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*11/14/14 20:17*	*11/14/14 23:31*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*11/14/14 20:17*	*11/14/14 23:31*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Client Sample ID: SV-17, 4.5'
Date Collected: 11/13/14 12:30
Date Received: 11/14/14 16:52

Lab Sample ID: 720-61249-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.8		ug/Kg		11/14/14 20:17	11/14/14 23:59	1
Ethylbenzene	ND		3.8		ug/Kg		11/14/14 20:17	11/14/14 23:59	1
Toluene	ND		3.8		ug/Kg		11/14/14 20:17	11/14/14 23:59	1
Xylenes, Total	ND		7.6		ug/Kg		11/14/14 20:17	11/14/14 23:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		11/14/14 20:17	11/14/14 23:59	1
Naphthalene	ND		7.6		ug/Kg		11/14/14 20:17	11/14/14 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*11/14/14 20:17*	*11/14/14 23:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*11/14/14 20:17*	*11/14/14 23:59*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*11/14/14 20:17*	*11/14/14 23:59*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Client Sample ID: SV-18, 4.5'
Date Collected: 11/13/14 13:45
Date Received: 11/14/14 16:52

Lab Sample ID: 720-61249-4
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.6		ug/Kg		11/14/14 20:17	11/15/14 00:28	1
Ethylbenzene	ND		3.6		ug/Kg		11/14/14 20:17	11/15/14 00:28	1
Toluene	ND		3.6		ug/Kg		11/14/14 20:17	11/15/14 00:28	1
Xylenes, Total	ND		7.2		ug/Kg		11/14/14 20:17	11/15/14 00:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		11/14/14 20:17	11/15/14 00:28	1
Naphthalene	ND		7.2		ug/Kg		11/14/14 20:17	11/15/14 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*11/14/14 20:17*	*11/15/14 00:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*11/14/14 20:17*	*11/15/14 00:28*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*11/14/14 20:17*	*11/15/14 00:28*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Client Sample ID: SV-19, 4.5'
Date Collected: 11/13/14 15:00
Date Received: 11/14/14 16:52

Lab Sample ID: 720-61249-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.3		ug/Kg		11/14/14 20:17	11/15/14 00:56	1
Ethylbenzene	ND		3.3		ug/Kg		11/14/14 20:17	11/15/14 00:56	1
Toluene	ND		3.3		ug/Kg		11/14/14 20:17	11/15/14 00:56	1
Xylenes, Total	ND		6.7		ug/Kg		11/14/14 20:17	11/15/14 00:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		170		ug/Kg		11/14/14 20:17	11/15/14 00:56	1
Naphthalene	ND		6.7		ug/Kg		11/14/14 20:17	11/15/14 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*11/14/14 20:17*	*11/15/14 00:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*	*11/14/14 20:17*	*11/15/14 00:56*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*11/14/14 20:17*	*11/15/14 00:56*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-170951/4
Matrix: Solid
Analysis Batch: 170951

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			11/14/14 19:17	1
Ethylbenzene	ND		5.0		ug/Kg			11/14/14 19:17	1
Toluene	ND		5.0		ug/Kg			11/14/14 19:17	1
Xylenes, Total	ND		10		ug/Kg			11/14/14 19:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/14/14 19:17	1
Naphthalene	ND		10		ug/Kg			11/14/14 19:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*11/14/14 19:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*		*11/14/14 19:17*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*		*11/14/14 19:17*	*1*

Lab Sample ID: LCS 720-170951/5
Matrix: Solid
Analysis Batch: 170951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.0		ug/Kg		96	70 - 130
Ethylbenzene	50.0	47.7		ug/Kg		95	80 - 137
Toluene	50.0	47.2		ug/Kg		94	80 - 128
m-Xylene & p-Xylene	50.0	48.0		ug/Kg		96	70 - 146
o-Xylene	50.0	48.3		ug/Kg		97	70 - 140
Naphthalene	50.0	53.9		ug/Kg		108	60 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCS 720-170951/7
Matrix: Solid
Analysis Batch: 170951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1070		ug/Kg		107	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*94*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-170951/6
Matrix: Solid
Analysis Batch: 170951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	48.4		ug/Kg		97	70 - 130	1	20
Ethylbenzene			50.0	47.8		ug/Kg		96	80 - 137	0	20
Toluene			50.0	47.1		ug/Kg		94	80 - 128	0	20
m-Xylene & p-Xylene			50.0	47.7		ug/Kg		95	70 - 146	0	20
o-Xylene			50.0	47.9		ug/Kg		96	70 - 140	1	20
Naphthalene			50.0	54.5		ug/Kg		109	60 - 147	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Lab Sample ID: LCSD 720-170951/8
Matrix: Solid
Analysis Batch: 170951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1040		ug/Kg		104	61 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*93*		*58 - 140*

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

GC/MS VOA

Analysis Batch: 170951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61249-1	SV-15, 4.5'	Total/NA	Solid	8260B/CA_LUFT MS	170968
720-61249-2	SV-16, 4.5'	Total/NA	Solid	8260B/CA_LUFT MS	170968
720-61249-3	SV-17, 4.5'	Total/NA	Solid	8260B/CA_LUFT MS	170968
720-61249-4	SV-18, 4.5'	Total/NA	Solid	8260B/CA_LUFT MS	170968
720-61249-5	SV-19, 4.5'	Total/NA	Solid	8260B/CA_LUFT MS	170968
LCS 720-170951/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-170951/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-170951/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-170951/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-170951/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 170968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61249-1	SV-15, 4.5'	Total/NA	Solid	5035	
720-61249-2	SV-16, 4.5'	Total/NA	Solid	5035	
720-61249-3	SV-17, 4.5'	Total/NA	Solid	5035	
720-61249-4	SV-18, 4.5'	Total/NA	Solid	5035	
720-61249-5	SV-19, 4.5'	Total/NA	Solid	5035	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Client Sample ID: SV-15, 4.5'

Lab Sample ID: 720-61249-1

Date Collected: 11/13/14 11:45

Matrix: Solid

Date Received: 11/14/14 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			170968	11/14/14 20:17	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	170951	11/14/14 23:03	ASC	TAL PLS

Client Sample ID: SV-16, 4.5'

Lab Sample ID: 720-61249-2

Date Collected: 11/13/14 11:50

Matrix: Solid

Date Received: 11/14/14 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			170968	11/14/14 20:17	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	170951	11/14/14 23:31	ASC	TAL PLS

Client Sample ID: SV-17, 4.5'

Lab Sample ID: 720-61249-3

Date Collected: 11/13/14 12:30

Matrix: Solid

Date Received: 11/14/14 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			170968	11/14/14 20:17	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	170951	11/14/14 23:59	ASC	TAL PLS

Client Sample ID: SV-18, 4.5'

Lab Sample ID: 720-61249-4

Date Collected: 11/13/14 13:45

Matrix: Solid

Date Received: 11/14/14 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			170968	11/14/14 20:17	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	170951	11/15/14 00:28	ASC	TAL PLS

Client Sample ID: SV-19, 4.5'

Lab Sample ID: 720-61249-5

Date Collected: 11/13/14 15:00

Matrix: Solid

Date Received: 11/14/14 16:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			170968	11/14/14 20:17	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	170951	11/15/14 00:56	ASC	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-61249-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-61249-1	SV-15, 4.5'	Solid	11/13/14 11:45	11/14/14 16:52
720-61249-2	SV-16, 4.5'	Solid	11/13/14 11:50	11/14/14 16:52
720-61249-3	SV-17, 4.5'	Solid	11/13/14 12:30	11/14/14 16:52
720-61249-4	SV-18, 4.5'	Solid	11/13/14 13:45	11/14/14 16:52
720-61249-5	SV-19, 4.5'	Solid	11/13/14 15:00	11/14/14 16:52

CHAIN OF CUSTODY RECORD 720-61249

157620

Stantec
Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702848

DATE: 11-13-14

PAGE: 1 OF 1

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [x] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Note: Terra core samples in freezer need to be kept frozen.

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MAT-RIX	No. of Cont.	Pre-serve	TPH-g/BTEX by 8260B + Naphthalene	PAHs by 8270C/D	Laboratory Notes
	SV-15, 4.5'	11-13-14	1145	S	3	Y	X		
	SV-16, 4.5'		1150				X		
	SV-17, 4.5'		1230				X		
	SV-18, 4.5'		1345				X		
	SV-19, 4.5'		1500				X		

720-61249 Chain of Custody

	Date	Time			Time
Relinquished by (Signature)	11-13-14	1800	Received by (Signature)	11-14-14	16 19
Relinquished by (Signature)	11-14-14	1652	Received by (Signature)	11/14/14	16 52
Relinquished by. (Signature)	Date	Time	Received by (Signature)		Time

0.1°c

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-64423-1
Client Project/Site: Bohannon San Lorenzo

For:
Stantec Consulting Corp.
1340 Treat Blvd
Suite 300
Walnut Creek, California 94597

Attn: Mrs. Eva Hey

Authorized for release by:
5/8/2015 3:11:18 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

Table of Contents

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-64423-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-64423-1

Comments
No additional comments.

Receipt
The samples were received on 4/28/2015 11:58 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7° C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 180917 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1 (720-64423-2), MW-2 (720-64423-3), MW-4 (720-64423-5), POBS-B1 (720-64423-7), POBS-B2 (720-64423-8), NOBS-B1 (720-64423-9),.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 180977 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TB-1 (720-64423-1), MW-2 (720-64423-3), MW-3 (720-64423-4), POBS-A1 (720-64423-6),.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 180977 recovered outside control limits for the following analytes: vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: TB-1 — Lab Sample ID: 720-64423-1

No Detections.

Client Sample ID: MW-1 — Lab Sample ID: 720-64423-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Tetrachloroethene	1.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Trichloroethene	3.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 720-64423-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	300		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	7.1		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	18		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Naphthalene	120		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	30		10		ug/L	10		8260B/CA_LUFT MS	Total/NA
Toluene	11		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2000		500		ug/L	10		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 720-64423-4

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 720-64423-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	94		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
n-Butylbenzene	5.5		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	8.9		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	21		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Naphthalene	110		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	36		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Toluene	15		2.5		ug/L	5		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	14		5.0		ug/L	5		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	4300		250		ug/L	5		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-A1 — Lab Sample ID: 720-64423-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	21		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Isopropylbenzene	4.4		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
N-Propylbenzene	8.0		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	270		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: POBS-B1 — Lab Sample ID: 720-64423-7

No Detections.

Client Sample ID: POBS-B2 — Lab Sample ID: 720-64423-8

No Detections.

Client Sample ID: NOBS-B1 — Lab Sample ID: 720-64423-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.89		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Dichlorodifluoromethane	1.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
cis-1,2-Dichloroethene	2.1		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Tetrachloroethene	8.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Trichloroethene	3.7		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: TB-1
Date Collected: 04/27/15 07:30
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/04/15 22:17	1
Acetone	ND		50		ug/L			05/04/15 22:17	1
Benzene	ND		0.50		ug/L			05/04/15 22:17	1
Dichlorobromomethane	ND		0.50		ug/L			05/04/15 22:17	1
Bromobenzene	ND		1.0		ug/L			05/04/15 22:17	1
Chlorobromomethane	ND		1.0		ug/L			05/04/15 22:17	1
Bromoform	ND		1.0		ug/L			05/04/15 22:17	1
Bromomethane	ND		1.0		ug/L			05/04/15 22:17	1
2-Butanone (MEK)	ND		50		ug/L			05/04/15 22:17	1
n-Butylbenzene	ND		1.0		ug/L			05/04/15 22:17	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/15 22:17	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/15 22:17	1
Carbon disulfide	ND		5.0		ug/L			05/04/15 22:17	1
Carbon tetrachloride	ND		0.50		ug/L			05/04/15 22:17	1
Chlorobenzene	ND		0.50		ug/L			05/04/15 22:17	1
Chloroethane	ND		1.0		ug/L			05/04/15 22:17	1
Chloroform	ND		1.0		ug/L			05/04/15 22:17	1
Chloromethane	ND		1.0		ug/L			05/04/15 22:17	1
2-Chlorotoluene	ND		0.50		ug/L			05/04/15 22:17	1
4-Chlorotoluene	ND		0.50		ug/L			05/04/15 22:17	1
Chlorodibromomethane	ND		0.50		ug/L			05/04/15 22:17	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/04/15 22:17	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/04/15 22:17	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/04/15 22:17	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/15 22:17	1
1,1-Dichloropropene	ND		0.50		ug/L			05/04/15 22:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/04/15 22:17	1
Ethylene Dibromide	ND		0.50		ug/L			05/04/15 22:17	1
Dibromomethane	ND		0.50		ug/L			05/04/15 22:17	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/04/15 22:17	1
1,1-Dichloroethane	ND		0.50		ug/L			05/04/15 22:17	1
1,2-Dichloroethane	ND		0.50		ug/L			05/04/15 22:17	1
1,1-Dichloroethene	ND		0.50		ug/L			05/04/15 22:17	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/04/15 22:17	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/04/15 22:17	1
1,2-Dichloropropane	ND		0.50		ug/L			05/04/15 22:17	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/15 22:17	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/04/15 22:17	1
Ethylbenzene	ND		0.50		ug/L			05/04/15 22:17	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/15 22:17	1
2-Hexanone	ND		50		ug/L			05/04/15 22:17	1
Isopropylbenzene	ND		0.50		ug/L			05/04/15 22:17	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/15 22:17	1
Methylene Chloride	ND		5.0		ug/L			05/04/15 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/04/15 22:17	1
Naphthalene	ND		1.0		ug/L			05/04/15 22:17	1
N-Propylbenzene	ND		1.0		ug/L			05/04/15 22:17	1
Styrene	ND		0.50		ug/L			05/04/15 22:17	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/04/15 22:17	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: TB-1
Date Collected: 04/27/15 07:30
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/04/15 22:17	1
Tetrachloroethene	ND		0.50		ug/L			05/04/15 22:17	1
Toluene	ND		0.50		ug/L			05/04/15 22:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/15 22:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/15 22:17	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/04/15 22:17	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/04/15 22:17	1
Trichloroethene	ND		0.50		ug/L			05/04/15 22:17	1
Trichlorofluoromethane	ND		1.0		ug/L			05/04/15 22:17	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/04/15 22:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/04/15 22:17	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/04/15 22:17	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/04/15 22:17	1
Vinyl acetate	ND	*	10		ug/L			05/04/15 22:17	1
Vinyl chloride	ND		0.50		ug/L			05/04/15 22:17	1
Xylenes, Total	ND		1.0		ug/L			05/04/15 22:17	1
2,2-Dichloropropane	ND		0.50		ug/L			05/04/15 22:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/04/15 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*05/04/15 22:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*05/04/15 22:17*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/04/15 22:17*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-1
Date Collected: 04/27/15 09:20
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/02/15 17:54	1
Acetone	ND		50		ug/L			05/02/15 17:54	1
Benzene	ND		0.50		ug/L			05/02/15 17:54	1
Dichlorobromomethane	ND		0.50		ug/L			05/02/15 17:54	1
Bromobenzene	ND		1.0		ug/L			05/02/15 17:54	1
Chlorobromomethane	ND		1.0		ug/L			05/02/15 17:54	1
Bromoform	ND		1.0		ug/L			05/02/15 17:54	1
Bromomethane	ND		1.0		ug/L			05/02/15 17:54	1
2-Butanone (MEK)	ND		50		ug/L			05/02/15 17:54	1
n-Butylbenzene	ND		1.0		ug/L			05/02/15 17:54	1
sec-Butylbenzene	ND		1.0		ug/L			05/02/15 17:54	1
tert-Butylbenzene	ND		1.0		ug/L			05/02/15 17:54	1
Carbon disulfide	ND		5.0		ug/L			05/02/15 17:54	1
Carbon tetrachloride	ND		0.50		ug/L			05/02/15 17:54	1
Chlorobenzene	ND		0.50		ug/L			05/02/15 17:54	1
Chloroethane	ND		1.0		ug/L			05/02/15 17:54	1
Chloroform	ND		1.0		ug/L			05/02/15 17:54	1
Chloromethane	ND		1.0		ug/L			05/02/15 17:54	1
2-Chlorotoluene	ND		0.50		ug/L			05/02/15 17:54	1
4-Chlorotoluene	ND		0.50		ug/L			05/02/15 17:54	1
Chlorodibromomethane	ND		0.50		ug/L			05/02/15 17:54	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/02/15 17:54	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/02/15 17:54	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/02/15 17:54	1
1,3-Dichloropropane	ND		1.0		ug/L			05/02/15 17:54	1
1,1-Dichloropropene	ND		0.50		ug/L			05/02/15 17:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/02/15 17:54	1
Ethylene Dibromide	ND		0.50		ug/L			05/02/15 17:54	1
Dibromomethane	ND		0.50		ug/L			05/02/15 17:54	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/02/15 17:54	1
1,1-Dichloroethane	ND		0.50		ug/L			05/02/15 17:54	1
1,2-Dichloroethane	ND		0.50		ug/L			05/02/15 17:54	1
1,1-Dichloroethene	ND		0.50		ug/L			05/02/15 17:54	1
cis-1,2-Dichloroethene	**2.3**		0.50		ug/L			05/02/15 17:54	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 17:54	1
1,2-Dichloropropane	ND		0.50		ug/L			05/02/15 17:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 17:54	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 17:54	1
Ethylbenzene	ND		0.50		ug/L			05/02/15 17:54	1
Hexachlorobutadiene	ND		1.0		ug/L			05/02/15 17:54	1
2-Hexanone	ND		50		ug/L			05/02/15 17:54	1
Isopropylbenzene	ND		0.50		ug/L			05/02/15 17:54	1
4-Isopropyltoluene	ND		1.0		ug/L			05/02/15 17:54	1
Methylene Chloride	ND		5.0		ug/L			05/02/15 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/02/15 17:54	1
Naphthalene	ND		1.0		ug/L			05/02/15 17:54	1
N-Propylbenzene	ND		1.0		ug/L			05/02/15 17:54	1
Styrene	ND		0.50		ug/L			05/02/15 17:54	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 17:54	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-1
Date Collected: 04/27/15 09:20
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-2
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 17:54	1
Tetrachloroethene	**1.1**		0.50		ug/L			05/02/15 17:54	1
Toluene	ND		0.50		ug/L			05/02/15 17:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/02/15 17:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/02/15 17:54	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/02/15 17:54	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/02/15 17:54	1
Trichloroethene	**3.9**		0.50		ug/L			05/02/15 17:54	1
Trichlorofluoromethane	ND		1.0		ug/L			05/02/15 17:54	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/02/15 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/02/15 17:54	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/02/15 17:54	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/02/15 17:54	1
Vinyl acetate	ND		10		ug/L			05/02/15 17:54	1
Vinyl chloride	ND		0.50		ug/L			05/02/15 17:54	1
Xylenes, Total	ND		1.0		ug/L			05/02/15 17:54	1
2,2-Dichloropropane	ND		0.50		ug/L			05/02/15 17:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/02/15 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*05/02/15 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/02/15 17:54*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/02/15 17:54*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-2
Date Collected: 04/27/15 12:20
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/L			05/05/15 02:02	10
Acetone	ND		500		ug/L			05/05/15 02:02	10
Benzene	**300**		5.0		ug/L			05/05/15 02:02	10
Dichlorobromomethane	ND		5.0		ug/L			05/05/15 02:02	10
Bromobenzene	ND		10		ug/L			05/05/15 02:02	10
Chlorobromomethane	ND		10		ug/L			05/05/15 02:02	10
Bromoform	ND		10		ug/L			05/05/15 02:02	10
Bromomethane	ND		10		ug/L			05/05/15 02:02	10
2-Butanone (MEK)	ND		500		ug/L			05/05/15 02:02	10
n-Butylbenzene	ND		10		ug/L			05/05/15 02:02	10
sec-Butylbenzene	ND		10		ug/L			05/05/15 02:02	10
tert-Butylbenzene	ND		10		ug/L			05/05/15 02:02	10
Carbon disulfide	ND		50		ug/L			05/05/15 02:02	10
Carbon tetrachloride	ND		5.0		ug/L			05/05/15 02:02	10
Chlorobenzene	ND		5.0		ug/L			05/05/15 02:02	10
Chloroethane	ND		10		ug/L			05/05/15 02:02	10
Chloroform	ND		10		ug/L			05/05/15 02:02	10
Chloromethane	ND		10		ug/L			05/05/15 02:02	10
2-Chlorotoluene	ND		5.0		ug/L			05/05/15 02:02	10
4-Chlorotoluene	ND		5.0		ug/L			05/05/15 02:02	10
Chlorodibromomethane	ND		5.0		ug/L			05/05/15 02:02	10
1,2-Dichlorobenzene	ND		5.0		ug/L			05/05/15 02:02	10
1,3-Dichlorobenzene	ND		5.0		ug/L			05/05/15 02:02	10
1,4-Dichlorobenzene	ND		5.0		ug/L			05/05/15 02:02	10
1,3-Dichloropropane	ND		10		ug/L			05/05/15 02:02	10
1,1-Dichloropropene	ND		5.0		ug/L			05/05/15 02:02	10
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			05/05/15 02:02	10
Ethylene Dibromide	ND		5.0		ug/L			05/05/15 02:02	10
Dibromomethane	ND		5.0		ug/L			05/05/15 02:02	10
Dichlorodifluoromethane	ND		5.0		ug/L			05/05/15 02:02	10
1,1-Dichloroethane	ND		5.0		ug/L			05/05/15 02:02	10
1,2-Dichloroethane	ND		5.0		ug/L			05/05/15 02:02	10
1,1-Dichloroethene	ND		5.0		ug/L			05/05/15 02:02	10
cis-1,2-Dichloroethene	ND		5.0		ug/L			05/05/15 02:02	10
trans-1,2-Dichloroethene	ND		5.0		ug/L			05/05/15 02:02	10
1,2-Dichloropropane	ND		5.0		ug/L			05/05/15 02:02	10
cis-1,3-Dichloropropene	ND		5.0		ug/L			05/05/15 02:02	10
trans-1,3-Dichloropropene	ND		5.0		ug/L			05/05/15 02:02	10
Ethylbenzene	**7.1**		5.0		ug/L			05/05/15 02:02	10
Hexachlorobutadiene	ND		10		ug/L			05/05/15 02:02	10
2-Hexanone	ND		500		ug/L			05/05/15 02:02	10
Isopropylbenzene	**18**		5.0		ug/L			05/05/15 02:02	10
4-Isopropyltoluene	ND		10		ug/L			05/05/15 02:02	10
Methylene Chloride	ND		50		ug/L			05/05/15 02:02	10
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			05/05/15 02:02	10
Naphthalene	**120**		10		ug/L			05/05/15 02:02	10
N-Propylbenzene	**30**		10		ug/L			05/05/15 02:02	10
Styrene	ND		5.0		ug/L			05/05/15 02:02	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/05/15 02:02	10

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-2
Date Collected: 04/27/15 12:20
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-3
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			05/05/15 02:02	10
Tetrachloroethene	ND		5.0		ug/L			05/05/15 02:02	10
Toluene	**11**		5.0		ug/L			05/05/15 02:02	10
1,2,3-Trichlorobenzene	ND		10		ug/L			05/05/15 02:02	10
1,2,4-Trichlorobenzene	ND		10		ug/L			05/05/15 02:02	10
1,1,1-Trichloroethane	ND		5.0		ug/L			05/05/15 02:02	10
1,1,2-Trichloroethane	ND		5.0		ug/L			05/05/15 02:02	10
Trichloroethene	ND		5.0		ug/L			05/05/15 02:02	10
Trichlorofluoromethane	ND		10		ug/L			05/05/15 02:02	10
1,2,3-Trichloropropane	ND		5.0		ug/L			05/05/15 02:02	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/L			05/05/15 02:02	10
1,2,4-Trimethylbenzene	ND		5.0		ug/L			05/05/15 02:02	10
1,3,5-Trimethylbenzene	ND		5.0		ug/L			05/05/15 02:02	10
Vinyl acetate	ND	*	100		ug/L			05/05/15 02:02	10
Vinyl chloride	ND		5.0		ug/L			05/05/15 02:02	10
Xylenes, Total	ND		10		ug/L			05/05/15 02:02	10
2,2-Dichloropropane	ND		5.0		ug/L			05/05/15 02:02	10
Gasoline Range Organics (GRO) -C5-C12	**2000**		500		ug/L			05/05/15 02:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*05/05/15 02:02*	*10*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 130*		*05/05/15 02:02*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/15 02:02*	*10*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-3
Date Collected: 04/27/15 10:00
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/05/15 01:06	1
Acetone	ND		50		ug/L			05/05/15 01:06	1
Benzene	ND		0.50		ug/L			05/05/15 01:06	1
Dichlorobromomethane	ND		0.50		ug/L			05/05/15 01:06	1
Bromobenzene	ND		1.0		ug/L			05/05/15 01:06	1
Chlorobromomethane	ND		1.0		ug/L			05/05/15 01:06	1
Bromoform	ND		1.0		ug/L			05/05/15 01:06	1
Bromomethane	ND		1.0		ug/L			05/05/15 01:06	1
2-Butanone (MEK)	ND		50		ug/L			05/05/15 01:06	1
n-Butylbenzene	ND		1.0		ug/L			05/05/15 01:06	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/15 01:06	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/15 01:06	1
Carbon disulfide	ND		5.0		ug/L			05/05/15 01:06	1
Carbon tetrachloride	ND		0.50		ug/L			05/05/15 01:06	1
Chlorobenzene	ND		0.50		ug/L			05/05/15 01:06	1
Chloroethane	ND		1.0		ug/L			05/05/15 01:06	1
Chloroform	ND		1.0		ug/L			05/05/15 01:06	1
Chloromethane	ND		1.0		ug/L			05/05/15 01:06	1
2-Chlorotoluene	ND		0.50		ug/L			05/05/15 01:06	1
4-Chlorotoluene	ND		0.50		ug/L			05/05/15 01:06	1
Chlorodibromomethane	ND		0.50		ug/L			05/05/15 01:06	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/05/15 01:06	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/05/15 01:06	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/05/15 01:06	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/15 01:06	1
1,1-Dichloropropene	ND		0.50		ug/L			05/05/15 01:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/05/15 01:06	1
Ethylene Dibromide	ND		0.50		ug/L			05/05/15 01:06	1
Dibromomethane	ND		0.50		ug/L			05/05/15 01:06	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/05/15 01:06	1
1,1-Dichloroethane	ND		0.50		ug/L			05/05/15 01:06	1
1,2-Dichloroethane	ND		0.50		ug/L			05/05/15 01:06	1
1,1-Dichloroethene	ND		0.50		ug/L			05/05/15 01:06	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/05/15 01:06	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/05/15 01:06	1
1,2-Dichloropropane	ND		0.50		ug/L			05/05/15 01:06	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/15 01:06	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/05/15 01:06	1
Ethylbenzene	ND		0.50		ug/L			05/05/15 01:06	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/15 01:06	1
2-Hexanone	ND		50		ug/L			05/05/15 01:06	1
Isopropylbenzene	ND		0.50		ug/L			05/05/15 01:06	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/15 01:06	1
Methylene Chloride	ND		5.0		ug/L			05/05/15 01:06	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/05/15 01:06	1
Naphthalene	ND		1.0		ug/L			05/05/15 01:06	1
N-Propylbenzene	ND		1.0		ug/L			05/05/15 01:06	1
Styrene	ND		0.50		ug/L			05/05/15 01:06	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/05/15 01:06	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-3
Date Collected: 04/27/15 10:00
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-4
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/05/15 01:06	1
Tetrachloroethene	ND		0.50		ug/L			05/05/15 01:06	1
Toluene	ND		0.50		ug/L			05/05/15 01:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/15 01:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/15 01:06	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/05/15 01:06	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/05/15 01:06	1
Trichloroethene	ND		0.50		ug/L			05/05/15 01:06	1
Trichlorofluoromethane	ND		1.0		ug/L			05/05/15 01:06	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/05/15 01:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/05/15 01:06	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/05/15 01:06	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/05/15 01:06	1
Vinyl acetate	ND	*	10		ug/L			05/05/15 01:06	1
Vinyl chloride	ND		0.50		ug/L			05/05/15 01:06	1
Xylenes, Total	ND		1.0		ug/L			05/05/15 01:06	1
2,2-Dichloropropane	ND		0.50		ug/L			05/05/15 01:06	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/05/15 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*05/05/15 01:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*05/05/15 01:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/05/15 01:06*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-4
Date Collected: 04/27/15 08:40
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.5		ug/L			05/02/15 19:18	5
Acetone	ND		250		ug/L			05/02/15 19:18	5
Benzene	**94**		2.5		ug/L			05/02/15 19:18	5
Dichlorobromomethane	ND		2.5		ug/L			05/02/15 19:18	5
Bromobenzene	ND		5.0		ug/L			05/02/15 19:18	5
Chlorobromomethane	ND		5.0		ug/L			05/02/15 19:18	5
Bromoform	ND		5.0		ug/L			05/02/15 19:18	5
Bromomethane	ND		5.0		ug/L			05/02/15 19:18	5
2-Butanone (MEK)	ND		250		ug/L			05/02/15 19:18	5
n-Butylbenzene	**5.5**		5.0		ug/L			05/02/15 19:18	5
sec-Butylbenzene	ND		5.0		ug/L			05/02/15 19:18	5
tert-Butylbenzene	ND		5.0		ug/L			05/02/15 19:18	5
Carbon disulfide	ND		25		ug/L			05/02/15 19:18	5
Carbon tetrachloride	ND		2.5		ug/L			05/02/15 19:18	5
Chlorobenzene	ND		2.5		ug/L			05/02/15 19:18	5
Chloroethane	ND		5.0		ug/L			05/02/15 19:18	5
Chloroform	ND		5.0		ug/L			05/02/15 19:18	5
Chloromethane	ND		5.0		ug/L			05/02/15 19:18	5
2-Chlorotoluene	ND		2.5		ug/L			05/02/15 19:18	5
4-Chlorotoluene	ND		2.5		ug/L			05/02/15 19:18	5
Chlorodibromomethane	ND		2.5		ug/L			05/02/15 19:18	5
1,2-Dichlorobenzene	ND		2.5		ug/L			05/02/15 19:18	5
1,3-Dichlorobenzene	ND		2.5		ug/L			05/02/15 19:18	5
1,4-Dichlorobenzene	ND		2.5		ug/L			05/02/15 19:18	5
1,3-Dichloropropane	ND		5.0		ug/L			05/02/15 19:18	5
1,1-Dichloropropene	ND		2.5		ug/L			05/02/15 19:18	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/02/15 19:18	5
Ethylene Dibromide	ND		2.5		ug/L			05/02/15 19:18	5
Dibromomethane	ND		2.5		ug/L			05/02/15 19:18	5
Dichlorodifluoromethane	ND		2.5		ug/L			05/02/15 19:18	5
1,1-Dichloroethane	ND		2.5		ug/L			05/02/15 19:18	5
1,2-Dichloroethane	ND		2.5		ug/L			05/02/15 19:18	5
1,1-Dichloroethene	ND		2.5		ug/L			05/02/15 19:18	5
cis-1,2-Dichloroethene	ND		2.5		ug/L			05/02/15 19:18	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			05/02/15 19:18	5
1,2-Dichloropropane	ND		2.5		ug/L			05/02/15 19:18	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			05/02/15 19:18	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			05/02/15 19:18	5
Ethylbenzene	**8.9**		2.5		ug/L			05/02/15 19:18	5
Hexachlorobutadiene	ND		5.0		ug/L			05/02/15 19:18	5
2-Hexanone	ND		250		ug/L			05/02/15 19:18	5
Isopropylbenzene	**21**		2.5		ug/L			05/02/15 19:18	5
4-Isopropyltoluene	ND		5.0		ug/L			05/02/15 19:18	5
Methylene Chloride	ND		25		ug/L			05/02/15 19:18	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			05/02/15 19:18	5
Naphthalene	**110**		5.0		ug/L			05/02/15 19:18	5
N-Propylbenzene	**36**		5.0		ug/L			05/02/15 19:18	5
Styrene	ND		2.5		ug/L			05/02/15 19:18	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			05/02/15 19:18	5

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: MW-4
Date Collected: 04/27/15 08:40
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-5
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			05/02/15 19:18	5
Tetrachloroethene	ND		2.5		ug/L			05/02/15 19:18	5
Toluene	**15**		2.5		ug/L			05/02/15 19:18	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/02/15 19:18	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/02/15 19:18	5
1,1,1-Trichloroethane	ND		2.5		ug/L			05/02/15 19:18	5
1,1,2-Trichloroethane	ND		2.5		ug/L			05/02/15 19:18	5
Trichloroethene	ND		2.5		ug/L			05/02/15 19:18	5
Trichlorofluoromethane	ND		5.0		ug/L			05/02/15 19:18	5
1,2,3-Trichloropropane	ND		2.5		ug/L			05/02/15 19:18	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5		ug/L			05/02/15 19:18	5
1,2,4-Trimethylbenzene	ND		2.5		ug/L			05/02/15 19:18	5
1,3,5-Trimethylbenzene	ND		2.5		ug/L			05/02/15 19:18	5
Vinyl acetate	ND		50		ug/L			05/06/15 00:16	5
Vinyl chloride	ND		2.5		ug/L			05/02/15 19:18	5
Xylenes, Total	**14**		5.0		ug/L			05/02/15 19:18	5
2,2-Dichloropropane	ND		2.5		ug/L			05/02/15 19:18	5
Gasoline Range Organics (GRO) -C5-C12	**4300**		250		ug/L			05/02/15 19:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*05/02/15 19:18*	*5*
4-Bromofluorobenzene	*108*		*67 - 130*		*05/06/15 00:16*	*5*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 130*		*05/02/15 19:18*	*5*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*05/06/15 00:16*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/02/15 19:18*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/06/15 00:16*	*5*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-A1
Date Collected: 04/27/15 11:40
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/05/15 01:33	1
Acetone	ND		50		ug/L			05/05/15 01:33	1
Benzene	**21**		0.50		ug/L			05/05/15 01:33	1
Dichlorobromomethane	ND		0.50		ug/L			05/05/15 01:33	1
Bromobenzene	ND		1.0		ug/L			05/05/15 01:33	1
Chlorobromomethane	ND		1.0		ug/L			05/05/15 01:33	1
Bromoform	ND		1.0		ug/L			05/05/15 01:33	1
Bromomethane	ND		1.0		ug/L			05/05/15 01:33	1
2-Butanone (MEK)	ND		50		ug/L			05/05/15 01:33	1
n-Butylbenzene	ND		1.0		ug/L			05/05/15 01:33	1
sec-Butylbenzene	ND		1.0		ug/L			05/05/15 01:33	1
tert-Butylbenzene	ND		1.0		ug/L			05/05/15 01:33	1
Carbon disulfide	ND		5.0		ug/L			05/05/15 01:33	1
Carbon tetrachloride	ND		0.50		ug/L			05/05/15 01:33	1
Chlorobenzene	ND		0.50		ug/L			05/05/15 01:33	1
Chloroethane	ND		1.0		ug/L			05/05/15 01:33	1
Chloroform	ND		1.0		ug/L			05/05/15 01:33	1
Chloromethane	ND		1.0		ug/L			05/05/15 01:33	1
2-Chlorotoluene	ND		0.50		ug/L			05/05/15 01:33	1
4-Chlorotoluene	ND		0.50		ug/L			05/05/15 01:33	1
Chlorodibromomethane	ND		0.50		ug/L			05/05/15 01:33	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/05/15 01:33	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/05/15 01:33	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/05/15 01:33	1
1,3-Dichloropropane	ND		1.0		ug/L			05/05/15 01:33	1
1,1-Dichloropropene	ND		0.50		ug/L			05/05/15 01:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/05/15 01:33	1
Ethylene Dibromide	ND		0.50		ug/L			05/05/15 01:33	1
Dibromomethane	ND		0.50		ug/L			05/05/15 01:33	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/05/15 01:33	1
1,1-Dichloroethane	ND		0.50		ug/L			05/05/15 01:33	1
1,2-Dichloroethane	ND		0.50		ug/L			05/05/15 01:33	1
1,1-Dichloroethene	ND		0.50		ug/L			05/05/15 01:33	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/05/15 01:33	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/05/15 01:33	1
1,2-Dichloropropane	ND		0.50		ug/L			05/05/15 01:33	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/05/15 01:33	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/05/15 01:33	1
Ethylbenzene	ND		0.50		ug/L			05/05/15 01:33	1
Hexachlorobutadiene	ND		1.0		ug/L			05/05/15 01:33	1
2-Hexanone	ND		50		ug/L			05/05/15 01:33	1
Isopropylbenzene	**4.4**		0.50		ug/L			05/05/15 01:33	1
4-Isopropyltoluene	ND		1.0		ug/L			05/05/15 01:33	1
Methylene Chloride	ND		5.0		ug/L			05/05/15 01:33	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/05/15 01:33	1
Naphthalene	ND		1.0		ug/L			05/05/15 01:33	1
N-Propylbenzene	**8.0**		1.0		ug/L			05/05/15 01:33	1
Styrene	ND		0.50		ug/L			05/05/15 01:33	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/05/15 01:33	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-A1
Date Collected: 04/27/15 11:40
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-6
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/05/15 01:33	1
Tetrachloroethene	ND		0.50		ug/L			05/05/15 01:33	1
Toluene	ND		0.50		ug/L			05/05/15 01:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/05/15 01:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/05/15 01:33	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/05/15 01:33	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/05/15 01:33	1
Trichloroethene	ND		0.50		ug/L			05/05/15 01:33	1
Trichlorofluoromethane	ND		1.0		ug/L			05/05/15 01:33	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/05/15 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/05/15 01:33	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/05/15 01:33	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/05/15 01:33	1
Vinyl acetate	ND		10		ug/L			05/05/15 13:55	1
Vinyl chloride	ND		0.50		ug/L			05/05/15 01:33	1
Xylenes, Total	ND		1.0		ug/L			05/05/15 01:33	1
2,2-Dichloropropane	ND		0.50		ug/L			05/05/15 01:33	1
Gasoline Range Organics (GRO) -C5-C12	**270**		50		ug/L			05/05/15 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*05/05/15 01:33*	*1*
4-Bromofluorobenzene	*104*		*67 - 130*		*05/05/15 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 130*		*05/05/15 01:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 130*		*05/05/15 13:55*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/15 01:33*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/05/15 13:55*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-B1
Date Collected: 04/27/15 11:10
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/02/15 20:15	1
Acetone	ND		50		ug/L			05/02/15 20:15	1
Benzene	ND		0.50		ug/L			05/02/15 20:15	1
Dichlorobromomethane	ND		0.50		ug/L			05/02/15 20:15	1
Bromobenzene	ND		1.0		ug/L			05/02/15 20:15	1
Chlorobromomethane	ND		1.0		ug/L			05/02/15 20:15	1
Bromoform	ND		1.0		ug/L			05/02/15 20:15	1
Bromomethane	ND		1.0		ug/L			05/02/15 20:15	1
2-Butanone (MEK)	ND		50		ug/L			05/02/15 20:15	1
n-Butylbenzene	ND		1.0		ug/L			05/02/15 20:15	1
sec-Butylbenzene	ND		1.0		ug/L			05/02/15 20:15	1
tert-Butylbenzene	ND		1.0		ug/L			05/02/15 20:15	1
Carbon disulfide	ND		5.0		ug/L			05/02/15 20:15	1
Carbon tetrachloride	ND		0.50		ug/L			05/02/15 20:15	1
Chlorobenzene	ND		0.50		ug/L			05/02/15 20:15	1
Chloroethane	ND		1.0		ug/L			05/02/15 20:15	1
Chloroform	ND		1.0		ug/L			05/02/15 20:15	1
Chloromethane	ND		1.0		ug/L			05/02/15 20:15	1
2-Chlorotoluene	ND		0.50		ug/L			05/02/15 20:15	1
4-Chlorotoluene	ND		0.50		ug/L			05/02/15 20:15	1
Chlorodibromomethane	ND		0.50		ug/L			05/02/15 20:15	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/02/15 20:15	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/02/15 20:15	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/02/15 20:15	1
1,3-Dichloropropane	ND		1.0		ug/L			05/02/15 20:15	1
1,1-Dichloropropene	ND		0.50		ug/L			05/02/15 20:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/02/15 20:15	1
Ethylene Dibromide	ND		0.50		ug/L			05/02/15 20:15	1
Dibromomethane	ND		0.50		ug/L			05/02/15 20:15	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/02/15 20:15	1
1,1-Dichloroethane	ND		0.50		ug/L			05/02/15 20:15	1
1,2-Dichloroethane	ND		0.50		ug/L			05/02/15 20:15	1
1,1-Dichloroethene	ND		0.50		ug/L			05/02/15 20:15	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 20:15	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 20:15	1
1,2-Dichloropropane	ND		0.50		ug/L			05/02/15 20:15	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 20:15	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 20:15	1
Ethylbenzene	ND		0.50		ug/L			05/02/15 20:15	1
Hexachlorobutadiene	ND		1.0		ug/L			05/02/15 20:15	1
2-Hexanone	ND		50		ug/L			05/02/15 20:15	1
Isopropylbenzene	ND		0.50		ug/L			05/02/15 20:15	1
4-Isopropyltoluene	ND		1.0		ug/L			05/02/15 20:15	1
Methylene Chloride	ND		5.0		ug/L			05/02/15 20:15	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/02/15 20:15	1
Naphthalene	ND		1.0		ug/L			05/02/15 20:15	1
N-Propylbenzene	ND		1.0		ug/L			05/02/15 20:15	1
Styrene	ND		0.50		ug/L			05/02/15 20:15	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 20:15	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-B1
Date Collected: 04/27/15 11:10
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-7
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 20:15	1
Tetrachloroethene	ND		0.50		ug/L			05/02/15 20:15	1
Toluene	ND		0.50		ug/L			05/02/15 20:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/02/15 20:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/02/15 20:15	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/02/15 20:15	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/02/15 20:15	1
Trichloroethene	ND		0.50		ug/L			05/02/15 20:15	1
Trichlorofluoromethane	ND		1.0		ug/L			05/02/15 20:15	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/02/15 20:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/02/15 20:15	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/02/15 20:15	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/02/15 20:15	1
Vinyl acetate	ND		10		ug/L			05/02/15 20:15	1
Vinyl chloride	ND		0.50		ug/L			05/02/15 20:15	1
Xylenes, Total	ND		1.0		ug/L			05/02/15 20:15	1
2,2-Dichloropropane	ND		0.50		ug/L			05/02/15 20:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/02/15 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*05/02/15 20:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*		*05/02/15 20:15*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/02/15 20:15*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-B2
Date Collected: 04/27/15 10:30
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/02/15 20:43	1
Acetone	ND		50		ug/L			05/02/15 20:43	1
Benzene	ND		0.50		ug/L			05/02/15 20:43	1
Dichlorobromomethane	ND		0.50		ug/L			05/02/15 20:43	1
Bromobenzene	ND		1.0		ug/L			05/02/15 20:43	1
Chlorobromomethane	ND		1.0		ug/L			05/02/15 20:43	1
Bromoform	ND		1.0		ug/L			05/02/15 20:43	1
Bromomethane	ND		1.0		ug/L			05/02/15 20:43	1
2-Butanone (MEK)	ND		50		ug/L			05/02/15 20:43	1
n-Butylbenzene	ND		1.0		ug/L			05/02/15 20:43	1
sec-Butylbenzene	ND		1.0		ug/L			05/02/15 20:43	1
tert-Butylbenzene	ND		1.0		ug/L			05/02/15 20:43	1
Carbon disulfide	ND		5.0		ug/L			05/02/15 20:43	1
Carbon tetrachloride	ND		0.50		ug/L			05/02/15 20:43	1
Chlorobenzene	ND		0.50		ug/L			05/02/15 20:43	1
Chloroethane	ND		1.0		ug/L			05/02/15 20:43	1
Chloroform	ND		1.0		ug/L			05/02/15 20:43	1
Chloromethane	ND		1.0		ug/L			05/02/15 20:43	1
2-Chlorotoluene	ND		0.50		ug/L			05/02/15 20:43	1
4-Chlorotoluene	ND		0.50		ug/L			05/02/15 20:43	1
Chlorodibromomethane	ND		0.50		ug/L			05/02/15 20:43	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/02/15 20:43	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/02/15 20:43	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/02/15 20:43	1
1,3-Dichloropropane	ND		1.0		ug/L			05/02/15 20:43	1
1,1-Dichloropropene	ND		0.50		ug/L			05/02/15 20:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/02/15 20:43	1
Ethylene Dibromide	ND		0.50		ug/L			05/02/15 20:43	1
Dibromomethane	ND		0.50		ug/L			05/02/15 20:43	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/02/15 20:43	1
1,1-Dichloroethane	ND		0.50		ug/L			05/02/15 20:43	1
1,2-Dichloroethane	ND		0.50		ug/L			05/02/15 20:43	1
1,1-Dichloroethene	ND		0.50		ug/L			05/02/15 20:43	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 20:43	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 20:43	1
1,2-Dichloropropane	ND		0.50		ug/L			05/02/15 20:43	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 20:43	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 20:43	1
Ethylbenzene	ND		0.50		ug/L			05/02/15 20:43	1
Hexachlorobutadiene	ND		1.0		ug/L			05/02/15 20:43	1
2-Hexanone	ND		50		ug/L			05/02/15 20:43	1
Isopropylbenzene	ND		0.50		ug/L			05/02/15 20:43	1
4-Isopropyltoluene	ND		1.0		ug/L			05/02/15 20:43	1
Methylene Chloride	ND		5.0		ug/L			05/02/15 20:43	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/02/15 20:43	1
Naphthalene	ND		1.0		ug/L			05/02/15 20:43	1
N-Propylbenzene	ND		1.0		ug/L			05/02/15 20:43	1
Styrene	ND		0.50		ug/L			05/02/15 20:43	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 20:43	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-B2
Date Collected: 04/27/15 10:30
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-8
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 20:43	1
Tetrachloroethene	ND		0.50		ug/L			05/02/15 20:43	1
Toluene	ND		0.50		ug/L			05/02/15 20:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/02/15 20:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/02/15 20:43	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/02/15 20:43	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/02/15 20:43	1
Trichloroethene	ND		0.50		ug/L			05/02/15 20:43	1
Trichlorofluoromethane	ND		1.0		ug/L			05/02/15 20:43	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/02/15 20:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/02/15 20:43	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/02/15 20:43	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/02/15 20:43	1
Vinyl acetate	ND		10		ug/L			05/02/15 20:43	1
Vinyl chloride	ND		0.50		ug/L			05/02/15 20:43	1
Xylenes, Total	ND		1.0		ug/L			05/02/15 20:43	1
2,2-Dichloropropane	ND		0.50		ug/L			05/02/15 20:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/02/15 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*05/02/15 20:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/02/15 20:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/02/15 20:43*	*1*

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: NOBS-B1
Date Collected: 04/27/15 08:10
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.89**		0.50		ug/L			05/02/15 21:11	1
Acetone	ND		50		ug/L			05/02/15 21:11	1
Benzene	ND		0.50		ug/L			05/02/15 21:11	1
Dichlorobromomethane	ND		0.50		ug/L			05/02/15 21:11	1
Bromobenzene	ND		1.0		ug/L			05/02/15 21:11	1
Chlorobromomethane	ND		1.0		ug/L			05/02/15 21:11	1
Bromoform	ND		1.0		ug/L			05/02/15 21:11	1
Bromomethane	ND		1.0		ug/L			05/02/15 21:11	1
2-Butanone (MEK)	ND		50		ug/L			05/02/15 21:11	1
n-Butylbenzene	ND		1.0		ug/L			05/02/15 21:11	1
sec-Butylbenzene	ND		1.0		ug/L			05/02/15 21:11	1
tert-Butylbenzene	ND		1.0		ug/L			05/02/15 21:11	1
Carbon disulfide	ND		5.0		ug/L			05/02/15 21:11	1
Carbon tetrachloride	ND		0.50		ug/L			05/02/15 21:11	1
Chlorobenzene	ND		0.50		ug/L			05/02/15 21:11	1
Chloroethane	ND		1.0		ug/L			05/02/15 21:11	1
Chloroform	ND		1.0		ug/L			05/02/15 21:11	1
Chloromethane	ND		1.0		ug/L			05/02/15 21:11	1
2-Chlorotoluene	ND		0.50		ug/L			05/02/15 21:11	1
4-Chlorotoluene	ND		0.50		ug/L			05/02/15 21:11	1
Chlorodibromomethane	ND		0.50		ug/L			05/02/15 21:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/02/15 21:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/02/15 21:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/02/15 21:11	1
1,3-Dichloropropane	ND		1.0		ug/L			05/02/15 21:11	1
1,1-Dichloropropene	ND		0.50		ug/L			05/02/15 21:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/02/15 21:11	1
Ethylene Dibromide	ND		0.50		ug/L			05/02/15 21:11	1
Dibromomethane	ND		0.50		ug/L			05/02/15 21:11	1
Dichlorodifluoromethane	**1.7**		0.50		ug/L			05/02/15 21:11	1
1,1-Dichloroethane	ND		0.50		ug/L			05/02/15 21:11	1
1,2-Dichloroethane	ND		0.50		ug/L			05/02/15 21:11	1
1,1-Dichloroethene	ND		0.50		ug/L			05/02/15 21:11	1
cis-1,2-Dichloroethene	**2.1**		0.50		ug/L			05/02/15 21:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 21:11	1
1,2-Dichloropropane	ND		0.50		ug/L			05/02/15 21:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 21:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 21:11	1
Ethylbenzene	ND		0.50		ug/L			05/02/15 21:11	1
Hexachlorobutadiene	ND		1.0		ug/L			05/02/15 21:11	1
2-Hexanone	ND		50		ug/L			05/02/15 21:11	1
Isopropylbenzene	ND		0.50		ug/L			05/02/15 21:11	1
4-Isopropyltoluene	ND		1.0		ug/L			05/02/15 21:11	1
Methylene Chloride	ND		5.0		ug/L			05/02/15 21:11	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/02/15 21:11	1
Naphthalene	ND		1.0		ug/L			05/02/15 21:11	1
N-Propylbenzene	ND		1.0		ug/L			05/02/15 21:11	1
Styrene	ND		0.50		ug/L			05/02/15 21:11	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 21:11	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: NOBS-B1
Date Collected: 04/27/15 08:10
Date Received: 04/28/15 11:58

Lab Sample ID: 720-64423-9
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 21:11	1
Tetrachloroethene	**8.7**		0.50		ug/L			05/02/15 21:11	1
Toluene	ND		0.50		ug/L			05/02/15 21:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/02/15 21:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/02/15 21:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/02/15 21:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/02/15 21:11	1
Trichloroethene	**3.7**		0.50		ug/L			05/02/15 21:11	1
Trichlorofluoromethane	ND		1.0		ug/L			05/02/15 21:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/02/15 21:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/02/15 21:11	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/02/15 21:11	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/02/15 21:11	1
Vinyl acetate	ND		10		ug/L			05/02/15 21:11	1
Vinyl chloride	ND		0.50		ug/L			05/02/15 21:11	1
Xylenes, Total	ND		1.0		ug/L			05/02/15 21:11	1
2,2-Dichloropropane	ND		0.50		ug/L			05/02/15 21:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/02/15 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*67 - 130*		*05/02/15 21:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/02/15 21:11*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/02/15 21:11*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-64423-1	TB-1	103	111	103
720-64423-2	MW-1	102	104	100
720-64423-3	MW-2	104	114	102
720-64423-4	MW-3	99	113	102
720-64423-5	MW-4	105	108	100
720-64423-5	MW-4	108	112	102
720-64423-6	POBS-A1	105	113	103
720-64423-6	POBS-A1	104	115	103
720-64423-7	POBS-B1	103	106	101
720-64423-8	POBS-B2	102	104	102
720-64423-9	NOBS-B1	100	104	101
LCS 720-180917/6	Lab Control Sample	97	100	100
LCS 720-180917/8	Lab Control Sample	99	102	101
LCS 720-180977/6	Lab Control Sample	101	107	103
LCS 720-180977/8	Lab Control Sample	103	109	103
LCS 720-181013/5	Lab Control Sample	99	102	105
LCS 720-181064/5	Lab Control Sample	87	103	102
LCSD 720-180917/7	Lab Control Sample Dup	98	98	101
LCSD 720-180917/9	Lab Control Sample Dup	99	101	101
LCSD 720-180977/7	Lab Control Sample Dup	101	111	103
LCSD 720-180977/9	Lab Control Sample Dup	104	109	103
LCSD 720-181013/6	Lab Control Sample Dup	100	103	106
LCSD 720-181064/6	Lab Control Sample Dup	85	104	102
MB 720-180917/5	Method Blank	99	106	101
MB 720-180977/5	Method Blank	103	109	102
MB 720-181013/4	Method Blank	102	105	104
MB 720-181064/4	Method Blank	103	105	101

Surrogate Legend

BFB = 4-Bromofluorobenzene

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-180917/5
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/02/15 12:45	1
Acetone	ND		50		ug/L			05/02/15 12:45	1
Benzene	ND		0.50		ug/L			05/02/15 12:45	1
Dichlorobromomethane	ND		0.50		ug/L			05/02/15 12:45	1
Bromobenzene	ND		1.0		ug/L			05/02/15 12:45	1
Chlorobromomethane	ND		1.0		ug/L			05/02/15 12:45	1
Bromoform	ND		1.0		ug/L			05/02/15 12:45	1
Bromomethane	ND		1.0		ug/L			05/02/15 12:45	1
2-Butanone (MEK)	ND		50		ug/L			05/02/15 12:45	1
n-Butylbenzene	ND		1.0		ug/L			05/02/15 12:45	1
sec-Butylbenzene	ND		1.0		ug/L			05/02/15 12:45	1
tert-Butylbenzene	ND		1.0		ug/L			05/02/15 12:45	1
Carbon disulfide	ND		5.0		ug/L			05/02/15 12:45	1
Carbon tetrachloride	ND		0.50		ug/L			05/02/15 12:45	1
Chlorobenzene	ND		0.50		ug/L			05/02/15 12:45	1
Chloroethane	ND		1.0		ug/L			05/02/15 12:45	1
Chloroform	ND		1.0		ug/L			05/02/15 12:45	1
Chloromethane	ND		1.0		ug/L			05/02/15 12:45	1
2-Chlorotoluene	ND		0.50		ug/L			05/02/15 12:45	1
4-Chlorotoluene	ND		0.50		ug/L			05/02/15 12:45	1
Chlorodibromomethane	ND		0.50		ug/L			05/02/15 12:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/02/15 12:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/02/15 12:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/02/15 12:45	1
1,3-Dichloropropane	ND		1.0		ug/L			05/02/15 12:45	1
1,1-Dichloropropene	ND		0.50		ug/L			05/02/15 12:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/02/15 12:45	1
Ethylene Dibromide	ND		0.50		ug/L			05/02/15 12:45	1
Dibromomethane	ND		0.50		ug/L			05/02/15 12:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/02/15 12:45	1
1,1-Dichloroethane	ND		0.50		ug/L			05/02/15 12:45	1
1,2-Dichloroethane	ND		0.50		ug/L			05/02/15 12:45	1
1,1-Dichloroethene	ND		0.50		ug/L			05/02/15 12:45	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 12:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/02/15 12:45	1
1,2-Dichloropropane	ND		0.50		ug/L			05/02/15 12:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 12:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/02/15 12:45	1
Ethylbenzene	ND		0.50		ug/L			05/02/15 12:45	1
Hexachlorobutadiene	ND		1.0		ug/L			05/02/15 12:45	1
2-Hexanone	ND		50		ug/L			05/02/15 12:45	1
Isopropylbenzene	ND		0.50		ug/L			05/02/15 12:45	1
4-Isopropyltoluene	ND		1.0		ug/L			05/02/15 12:45	1
Methylene Chloride	ND		5.0		ug/L			05/02/15 12:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/02/15 12:45	1
Naphthalene	ND		1.0		ug/L			05/02/15 12:45	1
N-Propylbenzene	ND		1.0		ug/L			05/02/15 12:45	1
Styrene	ND		0.50		ug/L			05/02/15 12:45	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-180917/5
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 12:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/02/15 12:45	1
Tetrachloroethene	ND		0.50		ug/L			05/02/15 12:45	1
Toluene	ND		0.50		ug/L			05/02/15 12:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/02/15 12:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/02/15 12:45	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/02/15 12:45	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/02/15 12:45	1
Trichloroethene	ND		0.50		ug/L			05/02/15 12:45	1
Trichlorofluoromethane	ND		1.0		ug/L			05/02/15 12:45	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/02/15 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/02/15 12:45	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/02/15 12:45	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/02/15 12:45	1
Vinyl acetate	ND		10		ug/L			05/02/15 12:45	1
Vinyl chloride	ND		0.50		ug/L			05/02/15 12:45	1
Xylenes, Total	ND		1.0		ug/L			05/02/15 12:45	1
2,2-Dichloropropane	ND		0.50		ug/L			05/02/15 12:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/02/15 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*05/02/15 12:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*		*05/02/15 12:45*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/02/15 12:45*	*1*

Lab Sample ID: LCS 720-180917/6
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.6		ug/L		102	62 - 130
Acetone	125	115		ug/L		92	26 - 180
Benzene	25.0	23.7		ug/L		95	79 - 130
Dichlorobromomethane	25.0	24.4		ug/L		98	70 - 130
Bromobenzene	25.0	23.3		ug/L		93	70 - 130
Chlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Bromoform	25.0	26.1		ug/L		104	68 - 136
Bromomethane	25.0	23.6		ug/L		94	43 - 151
2-Butanone (MEK)	125	117		ug/L		94	54 - 130
n-Butylbenzene	25.0	23.0		ug/L		92	70 - 142
sec-Butylbenzene	25.0	24.0		ug/L		96	70 - 134
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 135
Carbon disulfide	25.0	23.7		ug/L		95	58 - 130
Carbon tetrachloride	25.0	26.3		ug/L		105	70 - 146
Chlorobenzene	25.0	22.9		ug/L		92	70 - 130
Chloroethane	25.0	23.3		ug/L		93	62 - 138
Chloroform	25.0	24.4		ug/L		98	70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-180917/6
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	20.8		ug/L		83	52 - 175
2-Chlorotoluene	25.0	23.6		ug/L		95	70 - 130
4-Chlorotoluene	25.0	22.9		ug/L		92	70 - 130
Chlorodibromomethane	25.0	25.4		ug/L		102	70 - 145
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130
1,3-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,4-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 136
Ethylene Dibromide	25.0	23.5		ug/L		94	70 - 130
Dibromomethane	25.0	23.4		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	21.8		ug/L		87	34 - 132
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	24.2		ug/L		97	61 - 132
1,1-Dichloroethene	25.0	23.0		ug/L		92	64 - 128
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	68 - 130
1,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 140
Ethylbenzene	25.0	23.2		ug/L		93	80 - 120
Hexachlorobutadiene	25.0	24.2		ug/L		97	70 - 130
2-Hexanone	125	119		ug/L		95	60 - 164
Isopropylbenzene	25.0	23.9		ug/L		96	70 - 130
4-Isopropyltoluene	25.0	23.7		ug/L		95	70 - 130
Methylene Chloride	25.0	24.3		ug/L		97	70 - 147
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	58 - 130
Naphthalene	25.0	22.4		ug/L		90	70 - 130
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	23.4		ug/L		94	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	70 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Toluene	25.0	23.4		ug/L		94	78 - 120
1,2,3-Trichlorobenzene	25.0	22.6		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	70 - 130
Trichloroethene	25.0	25.0		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	26.2		ug/L		105	66 - 132
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7		ug/L		95	42 - 162
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 132
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
Vinyl acetate	25.0	25.8		ug/L		103	43 - 163
Vinyl chloride	25.0	22.2		ug/L		89	54 - 135

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-180917/6
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
m-Xylene & p-Xylene			25.0	23.6		ug/L		94	70 - 142		
o-Xylene			25.0	23.7		ug/L		95	70 - 130		
2,2-Dichloropropane			25.0	25.9		ug/L		104	70 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-180917/8
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	458		ug/L		92	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-180917/7
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			25.0	25.8		ug/L		103	62 - 130	1	20
Acetone			125	121		ug/L		97	26 - 180	5	30
Benzene			25.0	23.9		ug/L		95	79 - 130	0	20
Dichlorobromomethane			25.0	24.4		ug/L		98	70 - 130	0	20
Bromobenzene			25.0	23.0		ug/L		92	70 - 130	1	20
Chlorobromomethane			25.0	24.3		ug/L		97	70 - 130	0	20
Bromoform			25.0	26.0		ug/L		104	68 - 136	0	20
Bromomethane			25.0	23.9		ug/L		96	43 - 151	1	20
2-Butanone (MEK)			125	120		ug/L		96	54 - 130	3	20
n-Butylbenzene			25.0	23.4		ug/L		94	70 - 142	2	20
sec-Butylbenzene			25.0	24.2		ug/L		97	70 - 134	1	20
tert-Butylbenzene			25.0	24.6		ug/L		98	70 - 135	0	20
Carbon disulfide			25.0	23.8		ug/L		95	58 - 130	0	20
Carbon tetrachloride			25.0	26.5		ug/L		106	70 - 146	1	20
Chlorobenzene			25.0	23.0		ug/L		92	70 - 130	0	20
Chloroethane			25.0	23.2		ug/L		93	62 - 138	0	20
Chloroform			25.0	24.5		ug/L		98	70 - 130	0	20
Chloromethane			25.0	20.9		ug/L		83	52 - 175	0	20
2-Chlorotoluene			25.0	23.6		ug/L		94	70 - 130	0	20
4-Chlorotoluene			25.0	22.9		ug/L		92	70 - 130	0	20
Chlorodibromomethane			25.0	25.6		ug/L		102	70 - 145	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-180917/7
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	2	20
1,3-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130	1	20
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130	1	20
1,3-Dichloropropane	25.0	23.5		ug/L		94	70 - 130	1	20
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	24.8		ug/L		99	70 - 136	3	20
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130	1	20
Dibromomethane	25.0	23.5		ug/L		94	70 - 130	0	20
Dichlorodifluoromethane	25.0	21.9		ug/L		88	34 - 132	1	20
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130	0	20
1,2-Dichloroethane	25.0	24.2		ug/L		97	61 - 132	0	20
1,1-Dichloroethene	25.0	23.2		ug/L		93	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	68 - 130	0	20
1,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 140	1	20
Ethylbenzene	25.0	23.3		ug/L		93	80 - 120	0	20
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130	1	20
2-Hexanone	125	121		ug/L		97	60 - 164	2	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	0	20
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	1	20
Methylene Chloride	25.0	24.3		ug/L		97	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		100	58 - 130	1	20
Naphthalene	25.0	23.9		ug/L		95	70 - 130	6	20
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130	0	20
Styrene	25.0	23.8		ug/L		95	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	21.4		ug/L		85	70 - 130	2	20
Tetrachloroethene	25.0	24.9		ug/L		100	70 - 130	1	20
Toluene	25.0	23.8		ug/L		95	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	23.5		ug/L		94	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	24.0		ug/L		96	70 - 130	3	20
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130	0	20
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	70 - 130	3	20
Trichloroethene	25.0	25.2		ug/L		101	70 - 130	1	20
Trichlorofluoromethane	25.0	26.3		ug/L		105	66 - 132	1	20
1,2,3-Trichloropropane	25.0	23.7		ug/L		95	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.0		ug/L		96	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	1	20
Vinyl acetate	25.0	25.2		ug/L		101	43 - 163	2	20
Vinyl chloride	25.0	22.6		ug/L		90	54 - 135	2	20
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	70 - 142	1	20
o-Xylene	25.0	24.0		ug/L		96	70 - 130	1	20
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 140	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-180917/7
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-180917/9
Matrix: Water
Analysis Batch: 180917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	457		ug/L		91	62 - 120	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 720-180977/5
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/04/15 19:28	1
Acetone	ND		50		ug/L			05/04/15 19:28	1
Benzene	ND		0.50		ug/L			05/04/15 19:28	1
Dichlorobromomethane	ND		0.50		ug/L			05/04/15 19:28	1
Bromobenzene	ND		1.0		ug/L			05/04/15 19:28	1
Chlorobromomethane	ND		1.0		ug/L			05/04/15 19:28	1
Bromoform	ND		1.0		ug/L			05/04/15 19:28	1
Bromomethane	ND		1.0		ug/L			05/04/15 19:28	1
2-Butanone (MEK)	ND		50		ug/L			05/04/15 19:28	1
n-Butylbenzene	ND		1.0		ug/L			05/04/15 19:28	1
sec-Butylbenzene	ND		1.0		ug/L			05/04/15 19:28	1
tert-Butylbenzene	ND		1.0		ug/L			05/04/15 19:28	1
Carbon disulfide	ND		5.0		ug/L			05/04/15 19:28	1
Carbon tetrachloride	ND		0.50		ug/L			05/04/15 19:28	1
Chlorobenzene	ND		0.50		ug/L			05/04/15 19:28	1
Chloroethane	ND		1.0		ug/L			05/04/15 19:28	1
Chloroform	ND		1.0		ug/L			05/04/15 19:28	1
Chloromethane	ND		1.0		ug/L			05/04/15 19:28	1
2-Chlorotoluene	ND		0.50		ug/L			05/04/15 19:28	1
4-Chlorotoluene	ND		0.50		ug/L			05/04/15 19:28	1
Chlorodibromomethane	ND		0.50		ug/L			05/04/15 19:28	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/04/15 19:28	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/04/15 19:28	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/04/15 19:28	1
1,3-Dichloropropane	ND		1.0		ug/L			05/04/15 19:28	1
1,1-Dichloropropene	ND		0.50		ug/L			05/04/15 19:28	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-180977/5
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/04/15 19:28	1
Ethylene Dibromide	ND		0.50		ug/L			05/04/15 19:28	1
Dibromomethane	ND		0.50		ug/L			05/04/15 19:28	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/04/15 19:28	1
1,1-Dichloroethane	ND		0.50		ug/L			05/04/15 19:28	1
1,2-Dichloroethane	ND		0.50		ug/L			05/04/15 19:28	1
1,1-Dichloroethene	ND		0.50		ug/L			05/04/15 19:28	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/04/15 19:28	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/04/15 19:28	1
1,2-Dichloropropane	ND		0.50		ug/L			05/04/15 19:28	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/04/15 19:28	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/04/15 19:28	1
Ethylbenzene	ND		0.50		ug/L			05/04/15 19:28	1
Hexachlorobutadiene	ND		1.0		ug/L			05/04/15 19:28	1
2-Hexanone	ND		50		ug/L			05/04/15 19:28	1
Isopropylbenzene	ND		0.50		ug/L			05/04/15 19:28	1
4-Isopropyltoluene	ND		1.0		ug/L			05/04/15 19:28	1
Methylene Chloride	ND		5.0		ug/L			05/04/15 19:28	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/04/15 19:28	1
Naphthalene	ND		1.0		ug/L			05/04/15 19:28	1
N-Propylbenzene	ND		1.0		ug/L			05/04/15 19:28	1
Styrene	ND		0.50		ug/L			05/04/15 19:28	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/04/15 19:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/04/15 19:28	1
Tetrachloroethene	ND		0.50		ug/L			05/04/15 19:28	1
Toluene	ND		0.50		ug/L			05/04/15 19:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/04/15 19:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/04/15 19:28	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/04/15 19:28	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/04/15 19:28	1
Trichloroethene	ND		0.50		ug/L			05/04/15 19:28	1
Trichlorofluoromethane	ND		1.0		ug/L			05/04/15 19:28	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/04/15 19:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/04/15 19:28	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/04/15 19:28	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/04/15 19:28	1
Vinyl acetate	ND		10		ug/L			05/04/15 19:28	1
Vinyl chloride	ND		0.50		ug/L			05/04/15 19:28	1
Xylenes, Total	ND		1.0		ug/L			05/04/15 19:28	1
2,2-Dichloropropane	ND		0.50		ug/L			05/04/15 19:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/04/15 19:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*05/04/15 19:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*05/04/15 19:28*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/04/15 19:28*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-180977/6
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.2		ug/L		105	62 - 130
Acetone	125	113		ug/L		91	26 - 180
Benzene	25.0	22.9		ug/L		92	79 - 130
Dichlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	22.6		ug/L		90	70 - 130
Chlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Bromoform	25.0	26.0		ug/L		104	68 - 136
Bromomethane	25.0	22.6		ug/L		90	43 - 151
2-Butanone (MEK)	125	128		ug/L		102	54 - 130
n-Butylbenzene	25.0	22.4		ug/L		90	70 - 142
sec-Butylbenzene	25.0	22.9		ug/L		92	70 - 134
tert-Butylbenzene	25.0	23.7		ug/L		95	70 - 135
Carbon disulfide	25.0	22.2		ug/L		89	58 - 130
Carbon tetrachloride	25.0	25.8		ug/L		103	70 - 146
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130
Chloroethane	25.0	22.5		ug/L		90	62 - 138
Chloroform	25.0	24.2		ug/L		97	70 - 130
Chloromethane	25.0	20.2		ug/L		81	52 - 175
2-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130
4-Chlorotoluene	25.0	22.1		ug/L		88	70 - 130
Chlorodibromomethane	25.0	25.1		ug/L		101	70 - 145
1,2-Dichlorobenzene	25.0	22.4		ug/L		90	70 - 130
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	70 - 130
1,4-Dichlorobenzene	25.0	21.8		ug/L		87	70 - 130
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	70 - 136
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130
Dibromomethane	25.0	23.7		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	22.5		ug/L		90	34 - 132
1,1-Dichloroethane	25.0	23.9		ug/L		96	70 - 130
1,2-Dichloroethane	25.0	25.3		ug/L		101	61 - 132
1,1-Dichloroethene	25.0	22.0		ug/L		88	64 - 128
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	68 - 130
1,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 140
Ethylbenzene	25.0	23.0		ug/L		92	80 - 120
Hexachlorobutadiene	25.0	24.6		ug/L		98	70 - 130
2-Hexanone	125	135		ug/L		108	60 - 164
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	22.9		ug/L		92	70 - 130
Methylene Chloride	25.0	23.2		ug/L		93	70 - 147
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	58 - 130
Naphthalene	25.0	23.4		ug/L		94	70 - 130
N-Propylbenzene	25.0	22.8		ug/L		91	70 - 130
Styrene	25.0	24.3		ug/L		97	70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-180977/6
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.8		ug/L		91	70 - 130
Tetrachloroethene	25.0	24.7		ug/L		99	70 - 130
Toluene	25.0	23.4		ug/L		94	78 - 120
1,2,3-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
Trichloroethene	25.0	24.2		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	26.0		ug/L		104	66 - 132
1,2,3-Trichloropropane	25.0	24.6		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.0		ug/L		92	42 - 162
1,2,4-Trimethylbenzene	25.0	22.9		ug/L		92	70 - 132
1,3,5-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130
Vinyl acetate	25.0	64.4	*	ug/L		257	43 - 163
Vinyl chloride	25.0	21.6		ug/L		87	54 - 135
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	70 - 142
o-Xylene	25.0	23.7		ug/L		95	70 - 130
2,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCS 720-180977/8
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	452		ug/L		90	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 720-180977/7
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	26.9		ug/L		108	62 - 130	3	20
Acetone	125	134		ug/L		107	26 - 180	17	30
Benzene	25.0	23.2		ug/L		93	79 - 130	1	20
Dichlorobromomethane	25.0	25.1		ug/L		100	70 - 130	4	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-180977/7
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	25.0	22.8		ug/L		91	70 - 130	1	20
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130	2	20
Bromoform	25.0	26.0		ug/L		104	68 - 136	0	20
Bromomethane	25.0	22.7		ug/L		91	43 - 151	0	20
2-Butanone (MEK)	125	135		ug/L		108	54 - 130	5	20
n-Butylbenzene	25.0	23.0		ug/L		92	70 - 142	3	20
sec-Butylbenzene	25.0	23.3		ug/L		93	70 - 134	2	20
tert-Butylbenzene	25.0	23.7		ug/L		95	70 - 135	0	20
Carbon disulfide	25.0	22.0		ug/L		88	58 - 130	1	20
Carbon tetrachloride	25.0	26.2		ug/L		105	70 - 146	1	20
Chlorobenzene	25.0	22.9		ug/L		92	70 - 130	2	20
Chloroethane	25.0	22.2		ug/L		89	62 - 138	1	20
Chloroform	25.0	24.7		ug/L		99	70 - 130	2	20
Chloromethane	25.0	19.6		ug/L		78	52 - 175	3	20
2-Chlorotoluene	25.0	22.9		ug/L		92	70 - 130	2	20
4-Chlorotoluene	25.0	22.6		ug/L		90	70 - 130	2	20
Chlorodibromomethane	25.0	25.6		ug/L		102	70 - 145	2	20
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130	0	20
1,3-Dichlorobenzene	25.0	22.3		ug/L		89	70 - 130	2	20
1,4-Dichlorobenzene	25.0	22.2		ug/L		89	70 - 130	2	20
1,3-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	26.0		ug/L		104	70 - 136	1	20
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130	3	20
Dibromomethane	25.0	23.8		ug/L		95	70 - 130	0	20
Dichlorodifluoromethane	25.0	22.1		ug/L		88	34 - 132	2	20
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130	1	20
1,2-Dichloroethane	25.0	25.5		ug/L		102	61 - 132	1	20
1,1-Dichloroethene	25.0	22.0		ug/L		88	64 - 128	0	20
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	68 - 130	2	20
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 140	1	20
Ethylbenzene	25.0	23.0		ug/L		92	80 - 120	0	20
Hexachlorobutadiene	25.0	24.1		ug/L		96	70 - 130	2	20
2-Hexanone	125	143		ug/L		115	60 - 164	6	20
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130	0	20
4-Isopropyltoluene	25.0	23.2		ug/L		93	70 - 130	1	20
Methylene Chloride	25.0	23.3		ug/L		93	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	145		ug/L		116	58 - 130	4	20
Naphthalene	25.0	24.0		ug/L		96	70 - 130	3	20
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130	1	20
Styrene	25.0	24.5		ug/L		98	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		99	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	70 - 130	0	20
Tetrachloroethene	25.0	24.9		ug/L		100	70 - 130	1	20
Toluene	25.0	23.5		ug/L		94	78 - 120	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-180977/7
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			25.0	24.0		ug/L		96	70 - 130	4	20
1,2,4-Trichlorobenzene			25.0	24.6		ug/L		98	70 - 130	3	20
1,1,1-Trichloroethane			25.0	25.4		ug/L		101	70 - 130	0	20
1,1,2-Trichloroethane			25.0	24.0		ug/L		96	70 - 130	3	20
Trichloroethene			25.0	24.3		ug/L		97	70 - 130	1	20
Trichlorofluoromethane			25.0	25.8		ug/L		103	66 - 132	1	20
1,2,3-Trichloropropane			25.0	25.4		ug/L		101	70 - 130	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	22.7		ug/L		91	42 - 162	1	20
1,2,4-Trimethylbenzene			25.0	23.3		ug/L		93	70 - 132	1	20
1,3,5-Trimethylbenzene			25.0	23.6		ug/L		94	70 - 130	2	20
Vinyl acetate			25.0	61.8	*	ug/L		247	43 - 163	4	20
Vinyl chloride			25.0	21.1		ug/L		84	54 - 135	2	20
m-Xylene & p-Xylene			25.0	23.6		ug/L		94	70 - 142	0	20
o-Xylene			25.0	23.9		ug/L		95	70 - 130	1	20
2,2-Dichloropropane			25.0	25.3		ug/L		101	70 - 140	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 720-180977/9
Matrix: Water
Analysis Batch: 180977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	454		ug/L		91	62 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 720-181013/4
Matrix: Water
Analysis Batch: 181013

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		10		ug/L			05/05/15 08:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*67 - 130*		*05/05/15 08:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*05/05/15 08:49*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/05/15 08:49*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181013/5
Matrix: Water
Analysis Batch: 181013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl acetate			25.0	32.2		ug/L		129	43 - 163		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 720-181013/6
Matrix: Water
Analysis Batch: 181013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate			25.0	31.3		ug/L		125	43 - 163	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 720-181064/4
Matrix: Water
Analysis Batch: 181064

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		10		ug/L			05/05/15 19:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*67 - 130*		*05/05/15 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*05/05/15 19:54*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/05/15 19:54*	*1*

Lab Sample ID: LCS 720-181064/5
Matrix: Water
Analysis Batch: 181064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl acetate			25.0	29.2		ug/L		117	43 - 163		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*87*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181064/6
Matrix: Water
Analysis Batch: 181064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate			25.0	30.9		ug/L		124	43 - 163	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*85*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

GC/MS VOA

Analysis Batch: 180917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64423-2	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-64423-5	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-64423-7	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-64423-8	POBS-B2	Total/NA	Water	8260B/CA_LUFT MS	
720-64423-9	NOBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-180917/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-180917/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-180917/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-180917/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-180917/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 180977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64423-1	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
720-64423-3	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-64423-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-64423-6	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-180977/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-180977/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-180977/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-180977/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-180977/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 181013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64423-6	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-181013/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-181013/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-181013/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 181064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64423-5	MW-4	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 181064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-181064/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-181064/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-181064/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: TB-1

Lab Sample ID: 720-64423-1

Date Collected: 04/27/15 07:30

Matrix: Water

Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	180977	05/04/15 22:17	PRD	TAL PLS

Client Sample ID: MW-1

Lab Sample ID: 720-64423-2

Date Collected: 04/27/15 09:20

Matrix: Water

Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	180917	05/02/15 17:54	PRD	TAL PLS

Client Sample ID: MW-2

Lab Sample ID: 720-64423-3

Date Collected: 04/27/15 12:20

Matrix: Water

Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	180977	05/05/15 02:02	PRD	TAL PLS

Client Sample ID: MW-3

Lab Sample ID: 720-64423-4

Date Collected: 04/27/15 10:00

Matrix: Water

Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	180977	05/05/15 01:06	PRD	TAL PLS

Client Sample ID: MW-4

Lab Sample ID: 720-64423-5

Date Collected: 04/27/15 08:40

Matrix: Water

Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	180917	05/02/15 19:18	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		5	181064	05/06/15 00:16	PRD	TAL PLS

Client Sample ID: POBS-A1

Lab Sample ID: 720-64423-6

Date Collected: 04/27/15 11:40

Matrix: Water

Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	180977	05/05/15 01:33	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181013	05/05/15 13:55	PRD	TAL PLS

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Client Sample ID: POBS-B1

Lab Sample ID: 720-64423-7

Date Collected: 04/27/15 11:10
Matrix: Water
Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	180917	05/02/15 20:15	PRD	TAL PLS

Client Sample ID: POBS-B2

Lab Sample ID: 720-64423-8

Date Collected: 04/27/15 10:30
Matrix: Water
Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	180917	05/02/15 20:43	PRD	TAL PLS

Client Sample ID: NOBS-B1

Lab Sample ID: 720-64423-9

Date Collected: 04/27/15 08:10
Matrix: Water
Date Received: 04/28/15 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	180917	05/02/15 21:11	PRD	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64423-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-64423-1	TB-1	Water	04/27/15 07:30	04/28/15 11:58
720-64423-2	MW-1	Water	04/27/15 09:20	04/28/15 11:58
720-64423-3	MW-2	Water	04/27/15 12:20	04/28/15 11:58
720-64423-4	MW-3	Water	04/27/15 10:00	04/28/15 11:58
720-64423-5	MW-4	Water	04/27/15 08:40	04/28/15 11:58
720-64423-6	POBS-A1	Water	04/27/15 11:40	04/28/15 11:58
720-64423-7	POBS-B1	Water	04/27/15 11:10	04/28/15 11:58
720-64423-8	POBS-B2	Water	04/27/15 10:30	04/28/15 11:58
720-64423-9	NOBS-B1	Water	04/27/15 08:10	04/28/15 11:58

720-64423

160780

CHAIN OF CUSTODY RECORD

5/8/2015

Stantec

Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702934

DATE: 4-27-15

PAGE: 1 OF 1

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [x] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C): 4.7°C

REQUESTED ANALYSIS

720-64423 Chain of Custody

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	GRO,VOC's and Napthalene by 8260B	Laboratory Notes
	TB-1	4-27-15	730	W	3	HCl	X	
	MW-1	"	920	"	"	"	X	
	MW-2	"	1220	"	"	"	X	
	MW-3	"	1000	"	"	"	X	
	MW-4	"	840	"	"	"	X	
	POBS-A1	"	1140	"	"	"	X	
	POBS-B1	"	1110	"	"	"	X	
	POBS-B2	"	1030	"	"	"	X	
	NOBS-B1	↓	810	↓	↓	↓	X	

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	4-27-15	1340		4-28-15	10:27AM
	4-28-15	11:58		4-28-15	11:58
	Date:	Time:		Date:	Time:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-64423-1

Login Number: 64423

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-64458-1
Client Project/Site: Bohannon San Lorenzo

For:
Stantec Consulting Corp.
1340 Treat Blvd
Suite 300
Walnut Creek, California 94597

Attn: Mrs. Eva Hey

Authorized for release by:
5/11/2015 4:11:05 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
afsaneh.salimpour@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-64458-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-64458-1

Comments
No additional comments.

Receipt
The sample was received on 4/29/2015 5:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 181227 recovered above the upper control limit for VInyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: N1W-A1 (720-64458-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Client Sample ID: N1W-A1 **Lab Sample ID: 720-64458-1**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Client Sample ID: N1W-A1
Date Collected: 04/29/15 10:30
Date Received: 04/29/15 17:00

Lab Sample ID: 720-64458-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/08/15 06:08	1
Acetone	ND		50		ug/L			05/08/15 06:08	1
Benzene	ND		0.50		ug/L			05/08/15 06:08	1
Dichlorobromomethane	ND		0.50		ug/L			05/08/15 06:08	1
Bromobenzene	ND		1.0		ug/L			05/08/15 06:08	1
Chlorobromomethane	ND		1.0		ug/L			05/08/15 06:08	1
Bromoform	ND		1.0		ug/L			05/08/15 06:08	1
Bromomethane	ND		1.0		ug/L			05/08/15 06:08	1
2-Butanone (MEK)	ND		50		ug/L			05/08/15 06:08	1
n-Butylbenzene	ND		1.0		ug/L			05/08/15 06:08	1
sec-Butylbenzene	ND		1.0		ug/L			05/08/15 06:08	1
tert-Butylbenzene	ND		1.0		ug/L			05/08/15 06:08	1
Carbon disulfide	ND		5.0		ug/L			05/08/15 06:08	1
Carbon tetrachloride	ND		0.50		ug/L			05/08/15 06:08	1
Chlorobenzene	ND		0.50		ug/L			05/08/15 06:08	1
Chloroethane	ND		1.0		ug/L			05/08/15 06:08	1
Chloroform	ND		1.0		ug/L			05/08/15 06:08	1
Chloromethane	ND		1.0		ug/L			05/08/15 06:08	1
2-Chlorotoluene	ND		0.50		ug/L			05/08/15 06:08	1
4-Chlorotoluene	ND		0.50		ug/L			05/08/15 06:08	1
Chlorodibromomethane	ND		0.50		ug/L			05/08/15 06:08	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/08/15 06:08	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/08/15 06:08	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/08/15 06:08	1
1,3-Dichloropropane	ND		1.0		ug/L			05/08/15 06:08	1
1,1-Dichloropropene	ND		0.50		ug/L			05/08/15 06:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/08/15 06:08	1
Ethylene Dibromide	ND		0.50		ug/L			05/08/15 06:08	1
Dibromomethane	ND		0.50		ug/L			05/08/15 06:08	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/08/15 06:08	1
1,1-Dichloroethane	ND		0.50		ug/L			05/08/15 06:08	1
1,2-Dichloroethane	ND		0.50		ug/L			05/08/15 06:08	1
1,1-Dichloroethene	ND		0.50		ug/L			05/08/15 06:08	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/08/15 06:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/08/15 06:08	1
1,2-Dichloropropane	ND		0.50		ug/L			05/08/15 06:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/08/15 06:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/08/15 06:08	1
Ethylbenzene	ND		0.50		ug/L			05/08/15 06:08	1
Hexachlorobutadiene	ND		1.0		ug/L			05/08/15 06:08	1
2-Hexanone	ND		50		ug/L			05/08/15 06:08	1
Isopropylbenzene	ND		0.50		ug/L			05/08/15 06:08	1
4-Isopropyltoluene	ND		1.0		ug/L			05/08/15 06:08	1
Methylene Chloride	ND		5.0		ug/L			05/08/15 06:08	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/08/15 06:08	1
Naphthalene	ND		1.0		ug/L			05/08/15 06:08	1
N-Propylbenzene	ND		1.0		ug/L			05/08/15 06:08	1
Styrene	ND		0.50		ug/L			05/08/15 06:08	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/08/15 06:08	1

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Client Sample ID: N1W-A1
Date Collected: 04/29/15 10:30
Date Received: 04/29/15 17:00

Lab Sample ID: 720-64458-1
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/08/15 06:08	1
Tetrachloroethene	ND		0.50		ug/L			05/08/15 06:08	1
Toluene	ND		0.50		ug/L			05/08/15 06:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/08/15 06:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/08/15 06:08	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/08/15 06:08	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/08/15 06:08	1
Trichloroethene	ND		0.50		ug/L			05/08/15 06:08	1
Trichlorofluoromethane	ND		1.0		ug/L			05/08/15 06:08	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/08/15 06:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/08/15 06:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/08/15 06:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/08/15 06:08	1
Vinyl acetate	ND	*	10		ug/L			05/08/15 06:08	1
Vinyl chloride	ND		0.50		ug/L			05/08/15 06:08	1
Xylenes, Total	ND		1.0		ug/L			05/08/15 06:08	1
2,2-Dichloropropane	ND		0.50		ug/L			05/08/15 06:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/08/15 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*05/08/15 06:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*72 - 130*		*05/08/15 06:08*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/08/15 06:08*	*1*

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(67-130)	(72-130)	(70-130)
720-64458-1	N1W-A1	105	123	102
LCS 720-181227/5	Lab Control Sample	100	102	102
LCS 720-181227/7	Lab Control Sample	103	111	103
LCSD 720-181227/6	Lab Control Sample Dup	101	104	101
LCSD 720-181227/8	Lab Control Sample Dup	105	109	103
MB 720-181227/4	Method Blank	101	107	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-181227/4
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/07/15 19:49	1
Acetone	ND		50		ug/L			05/07/15 19:49	1
Benzene	ND		0.50		ug/L			05/07/15 19:49	1
Dichlorobromomethane	ND		0.50		ug/L			05/07/15 19:49	1
Bromobenzene	ND		1.0		ug/L			05/07/15 19:49	1
Chlorobromomethane	ND		1.0		ug/L			05/07/15 19:49	1
Bromoform	ND		1.0		ug/L			05/07/15 19:49	1
Bromomethane	ND		1.0		ug/L			05/07/15 19:49	1
2-Butanone (MEK)	ND		50		ug/L			05/07/15 19:49	1
n-Butylbenzene	ND		1.0		ug/L			05/07/15 19:49	1
sec-Butylbenzene	ND		1.0		ug/L			05/07/15 19:49	1
tert-Butylbenzene	ND		1.0		ug/L			05/07/15 19:49	1
Carbon disulfide	ND		5.0		ug/L			05/07/15 19:49	1
Carbon tetrachloride	ND		0.50		ug/L			05/07/15 19:49	1
Chlorobenzene	ND		0.50		ug/L			05/07/15 19:49	1
Chloroethane	ND		1.0		ug/L			05/07/15 19:49	1
Chloroform	ND		1.0		ug/L			05/07/15 19:49	1
Chloromethane	ND		1.0		ug/L			05/07/15 19:49	1
2-Chlorotoluene	ND		0.50		ug/L			05/07/15 19:49	1
4-Chlorotoluene	ND		0.50		ug/L			05/07/15 19:49	1
Chlorodibromomethane	ND		0.50		ug/L			05/07/15 19:49	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/07/15 19:49	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/07/15 19:49	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/07/15 19:49	1
1,3-Dichloropropane	ND		1.0		ug/L			05/07/15 19:49	1
1,1-Dichloropropene	ND		0.50		ug/L			05/07/15 19:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/07/15 19:49	1
Ethylene Dibromide	ND		0.50		ug/L			05/07/15 19:49	1
Dibromomethane	ND		0.50		ug/L			05/07/15 19:49	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/07/15 19:49	1
1,1-Dichloroethane	ND		0.50		ug/L			05/07/15 19:49	1
1,2-Dichloroethane	ND		0.50		ug/L			05/07/15 19:49	1
1,1-Dichloroethene	ND		0.50		ug/L			05/07/15 19:49	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/07/15 19:49	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/07/15 19:49	1
1,2-Dichloropropane	ND		0.50		ug/L			05/07/15 19:49	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/07/15 19:49	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/07/15 19:49	1
Ethylbenzene	ND		0.50		ug/L			05/07/15 19:49	1
Hexachlorobutadiene	ND		1.0		ug/L			05/07/15 19:49	1
2-Hexanone	ND		50		ug/L			05/07/15 19:49	1
Isopropylbenzene	ND		0.50		ug/L			05/07/15 19:49	1
4-Isopropyltoluene	ND		1.0		ug/L			05/07/15 19:49	1
Methylene Chloride	ND		5.0		ug/L			05/07/15 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/07/15 19:49	1
Naphthalene	ND		1.0		ug/L			05/07/15 19:49	1
N-Propylbenzene	ND		1.0		ug/L			05/07/15 19:49	1
Styrene	ND		0.50		ug/L			05/07/15 19:49	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181227/4
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/07/15 19:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/07/15 19:49	1
Tetrachloroethene	ND		0.50		ug/L			05/07/15 19:49	1
Toluene	ND		0.50		ug/L			05/07/15 19:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/07/15 19:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/07/15 19:49	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/07/15 19:49	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/07/15 19:49	1
Trichloroethene	ND		0.50		ug/L			05/07/15 19:49	1
Trichlorofluoromethane	ND		1.0		ug/L			05/07/15 19:49	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/07/15 19:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/07/15 19:49	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/07/15 19:49	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/07/15 19:49	1
Vinyl acetate	ND		10		ug/L			05/07/15 19:49	1
Vinyl chloride	ND		0.50		ug/L			05/07/15 19:49	1
Xylenes, Total	ND		1.0		ug/L			05/07/15 19:49	1
2,2-Dichloropropane	ND		0.50		ug/L			05/07/15 19:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/07/15 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*05/07/15 19:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*72 - 130*		*05/07/15 19:49*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/07/15 19:49*	*1*

Lab Sample ID: LCS 720-181227/5
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.6		ug/L		102	62 - 130
Acetone	125	104		ug/L		83	26 - 180
Benzene	25.0	23.3		ug/L		93	79 - 130
Dichlorobromomethane	25.0	23.9		ug/L		96	70 - 130
Bromobenzene	25.0	23.0		ug/L		92	70 - 130
Chlorobromomethane	25.0	24.2		ug/L		97	70 - 130
Bromoform	25.0	25.0		ug/L		100	68 - 136
Bromomethane	25.0	23.5		ug/L		94	43 - 151
2-Butanone (MEK)	125	114		ug/L		92	54 - 130
n-Butylbenzene	25.0	23.3		ug/L		93	70 - 142
sec-Butylbenzene	25.0	24.0		ug/L		96	70 - 134
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 135
Carbon disulfide	25.0	23.5		ug/L		94	58 - 130
Carbon tetrachloride	25.0	26.5		ug/L		106	70 - 146
Chlorobenzene	25.0	23.3		ug/L		93	70 - 130
Chloroethane	25.0	22.7		ug/L		91	62 - 138
Chloroform	25.0	24.4		ug/L		98	70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181227/5
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	20.7		ug/L		83	52 - 175
2-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130
4-Chlorotoluene	25.0	22.8		ug/L		91	70 - 130
Chlorodibromomethane	25.0	24.5		ug/L		98	70 - 145
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,3-Dichlorobenzene	25.0	22.4		ug/L		89	70 - 130
1,4-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	70 - 136
Ethylene Dibromide	25.0	23.0		ug/L		92	70 - 130
Dibromomethane	25.0	23.1		ug/L		93	70 - 130
Dichlorodifluoromethane	25.0	24.9		ug/L		99	34 - 132
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.7		ug/L		99	61 - 132
1,1-Dichloroethene	25.0	23.0		ug/L		92	64 - 128
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	24.4		ug/L		97	68 - 130
1,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
cis-1,3-Dichloropropene	25.0	24.1		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 140
Ethylbenzene	25.0	23.6		ug/L		94	80 - 120
Hexachlorobutadiene	25.0	25.5		ug/L		102	70 - 130
2-Hexanone	125	115		ug/L		92	60 - 164
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 130
Methylene Chloride	25.0	23.6		ug/L		94	70 - 147
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	58 - 130
Naphthalene	25.0	22.8		ug/L		91	70 - 130
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130
Styrene	25.0	23.7		ug/L		95	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		88	70 - 130
Tetrachloroethene	25.0	25.0		ug/L		100	70 - 130
Toluene	25.0	23.6		ug/L		95	78 - 120
1,2,3-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	25.6		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	26.7		ug/L		107	66 - 132
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9		ug/L		96	42 - 162
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 132
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130
Vinyl acetate	25.0	56.2	*	ug/L		225	43 - 163
Vinyl chloride	25.0	22.4		ug/L		89	54 - 135

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181227/5
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
m-Xylene & p-Xylene			25.0	24.3		ug/L		97	70 - 142		
o-Xylene			25.0	24.2		ug/L		97	70 - 130		
2,2-Dichloropropane			25.0	26.7		ug/L		107	70 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCS 720-181227/7
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	453		ug/L		91	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 720-181227/6
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			25.0	25.0		ug/L		100	62 - 130	3	20
Acetone			125	111		ug/L		88	26 - 180	7	30
Benzene			25.0	23.4		ug/L		94	79 - 130	1	20
Dichlorobromomethane			25.0	24.1		ug/L		96	70 - 130	1	20
Bromobenzene			25.0	23.2		ug/L		93	70 - 130	1	20
Chlorobromomethane			25.0	23.8		ug/L		95	70 - 130	2	20
Bromoform			25.0	24.4		ug/L		98	68 - 136	2	20
Bromomethane			25.0	24.0		ug/L		96	43 - 151	2	20
2-Butanone (MEK)			125	110		ug/L		88	54 - 130	4	20
n-Butylbenzene			25.0	24.1		ug/L		96	70 - 142	3	20
sec-Butylbenzene			25.0	24.5		ug/L		98	70 - 134	2	20
tert-Butylbenzene			25.0	25.2		ug/L		101	70 - 135	2	20
Carbon disulfide			25.0	23.8		ug/L		95	58 - 130	1	20
Carbon tetrachloride			25.0	26.9		ug/L		108	70 - 146	2	20
Chlorobenzene			25.0	23.0		ug/L		92	70 - 130	1	20
Chloroethane			25.0	23.3		ug/L		93	62 - 138	3	20
Chloroform			25.0	24.4		ug/L		98	70 - 130	0	20
Chloromethane			25.0	21.1		ug/L		84	52 - 175	2	20
2-Chlorotoluene			25.0	23.6		ug/L		94	70 - 130	1	20
4-Chlorotoluene			25.0	22.9		ug/L		92	70 - 130	1	20
Chlorodibromomethane			25.0	24.5		ug/L		98	70 - 145	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181227/6
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130	1	20
1,3-Dichlorobenzene	25.0	22.9		ug/L		91	70 - 130	2	20
1,4-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	1	20
1,3-Dichloropropane	25.0	22.6		ug/L		91	70 - 130	2	20
1,1-Dichloropropene	25.0	26.1		ug/L		104	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 136	2	20
Ethylene Dibromide	25.0	22.8		ug/L		91	70 - 130	1	20
Dibromomethane	25.0	22.7		ug/L		91	70 - 130	2	20
Dichlorodifluoromethane	25.0	25.4		ug/L		102	34 - 132	2	20
1,1-Dichloroethane	25.0	24.1		ug/L		97	70 - 130	1	20
1,2-Dichloroethane	25.0	24.3		ug/L		97	61 - 132	2	20
1,1-Dichloroethene	25.0	23.5		ug/L		94	64 - 128	2	20
cis-1,2-Dichloroethene	25.0	23.9		ug/L		95	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	68 - 130	1	20
1,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 140	2	20
Ethylbenzene	25.0	23.3		ug/L		93	80 - 120	1	20
Hexachlorobutadiene	25.0	25.4		ug/L		102	70 - 130	0	20
2-Hexanone	125	111		ug/L		89	60 - 164	3	20
Isopropylbenzene	25.0	24.2		ug/L		97	70 - 130	0	20
4-Isopropyltoluene	25.0	24.6		ug/L		98	70 - 130	3	20
Methylene Chloride	25.0	23.7		ug/L		95	70 - 147	0	20
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		90	58 - 130	5	20
Naphthalene	25.0	23.1		ug/L		92	70 - 130	1	20
N-Propylbenzene	25.0	24.0		ug/L		96	70 - 130	2	20
Styrene	25.0	23.8		ug/L		95	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130	2	20
Tetrachloroethene	25.0	24.6		ug/L		98	70 - 130	2	20
Toluene	25.0	23.7		ug/L		95	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	23.4		ug/L		94	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130	2	20
Trichloroethene	25.0	24.7		ug/L		99	70 - 130	1	20
Trichlorofluoromethane	25.0	27.0		ug/L		108	66 - 132	1	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		95	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.8		ug/L		99	42 - 162	4	20
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130	1	20
Vinyl acetate	25.0	52.2	*	ug/L		209	43 - 163	7	20
Vinyl chloride	25.0	22.6		ug/L		90	54 - 135	1	20
m-Xylene & p-Xylene	25.0	24.1		ug/L		96	70 - 142	1	20
o-Xylene	25.0	24.2		ug/L		97	70 - 130	0	20
2,2-Dichloropropane	25.0	26.9		ug/L		108	70 - 140	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181227/6
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-181227/8
Matrix: Water
Analysis Batch: 181227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	450		ug/L		90	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

GC/MS VOA

Analysis Batch: 181227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64458-1	N1W-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-181227/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-181227/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-181227/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-181227/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-181227/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Client Sample ID: N1W-A1
Date Collected: 04/29/15 10:30
Date Received: 04/29/15 17:00

Lab Sample ID: 720-64458-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	181227	05/08/15 06:08	PRD	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-64458-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-64458-1	N1W-A1	Water	04/29/15 10:30	04/29/15 17:00

5 qs 4/29/15

720-64458

160814

CHAIN OF CUSTODY RECORD

Stantec

Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702934

DATE: 4-29-15

PAGE: 1 OF 1

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [x] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C):

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	GRO,VOC's and Napthalene by 8260B	Laboratory Notes
	N1W-A1	4-29-15	1030	W	3	HCl	X	

720-64458 Chain of Custody

Relinquished by: (Signature)	Date:	Time	Received by: (Signature)	Date:	Time	
	4-29-15	1240		4-29-15	1500	3c
	4-29-15	1700		4-29-15	1700	

5/11/2015

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-64458-1

Login Number: 64458

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-61249-1

Login Number: 61249

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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6/17/2014

Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek CA 94597

Project Name: Bohannan
Project #: 185702848
Workorder #: 1406020

Dear Ms. Eva Hey

The following report includes the data for the above referenced project for sample(s) received on 6/3/2014 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 VI are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1406020

Work Order Summary

CLIENT:	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597	**BILL TO:**	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597
PHONE:	925-299-9300	**P.O. #**	185702848.200.0002
FAX:	925-299-9302	**PROJECT #**	185702848 Bohannan
DATE RECEIVED:	06/03/2014	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	06/10/2014		

FRACTION #	NAME	TEST
01A	SV-1	Modified TO-17 VI
02A	SV-2	Modified TO-17 VI
03A	SV-3	Modified TO-17 VI
04A	SV-4	Modified TO-17 VI
05A	SV-5	Modified TO-17 VI
06A	SV-6	Modified TO-17 VI
07A	SV-7	Modified TO-17 VI
08A	SV-8	Modified TO-17 VI
09A	SV-9	Modified TO-17 VI
10A	SV-10	Modified TO-17 VI
11A	SV-11	Modified TO-17 VI
12A	SV-12	Modified TO-17 VI
13A	SV-13	Modified TO-17 VI
14A	SV-14	Modified TO-17 VI
15A	Lab Blank	Modified TO-17 VI
16A	CCV	Modified TO-17 VI
17A	LCS	Modified TO-17 VI
17AA	LCSD	Modified TO-17 VI

CERTIFIED BY: Heidi Rayos DATE: 06/10/14

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 956
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified EPA Method TO-17 (VI Tubes)
Stantec Consulting Corporation
Workorder# 1406020

Fourteen TO-17 VI Tube samples were received on June 03, 2014. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 'VI' sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for compound separation and detection.

A modification that may be applied to EPA Method TO-17 at the client's discretion is the requirement to transport sorbent tubes at 4 deg C. Laboratory studies demonstrate a high level of stability for VOCs on the TO-17 'VI' tube at room temperature for periods of up to 14 days. Tubes can be shipped to and from the field site at ambient conditions as long as the 14-day sample hold time is upheld. Trip blanks and field surrogate spikes are used as additional control measures to monitor recovery and background contribution during tube transport.

Since the TO-17 VI application significantly extends the scope of target compounds addressed in EPA Method TO-15 and TO-17, the laboratory has implemented several method modifications outlined in the table below. Specific project requirements may over-ride the laboratory modifications.

Requirement	***TO-17***	***ATL Modifications***
Initial Calibration	%RSD</=30% with 2 allowed out up to 40%	VOC list: %RSD</=30% with 2 allowed out up to 40% SVOC list: %RSD</=30% with 2 allowed out up to 40%
Daily Calibration	%D for each target compound within +/-30%.	Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene within +/-40%D
Audit Accuracy	70-130%	Second source recovery limits for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene = 60-140%.
Distributed Volume Pairs	Collection of distributed volume pairs required for monitoring ambient air to insure high quality.	If site is well-characterized or performance previously verified, single tube sampling may be appropriate. Distributed pairs may be impractical for soil gas collection due to configuration and volume constraints.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A sampling volume of 0.200 L was used to convert ng to ug/m3 for the associated Lab Blank.

The field surrogate, Naphthalene-d8, in sample SV-8 exceeded the laboratory limits of 50-150%.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in blank (subtraction not performed).
J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-17

Client Sample ID: SV-1

Lab ID#: 1406020-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	1.0	5.2

Client Sample ID: SV-2

Lab ID#: 1406020-02A

No Detections Were Found.

Client Sample ID: SV-3

Lab ID#: 1406020-03A

No Detections Were Found.

Client Sample ID: SV-4

Lab ID#: 1406020-04A

No Detections Were Found.

Client Sample ID: SV-5

Lab ID#: 1406020-05A

No Detections Were Found.

Client Sample ID: SV-6

Lab ID#: 1406020-06A

No Detections Were Found.

Client Sample ID: SV-7

Lab ID#: 1406020-07A

No Detections Were Found.

Client Sample ID: SV-8

Lab ID#: 1406020-08A

No Detections Were Found.

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Summary of Detected Compounds
EPA METHOD TO-17

Client Sample ID: SV-9

Lab ID#: 1406020-09A

No Detections Were Found.

Client Sample ID: SV-10

Lab ID#: 1406020-10A

No Detections Were Found.

Client Sample ID: SV-11

Lab ID#: 1406020-11A

No Detections Were Found.

Client Sample ID: SV-12

Lab ID#: 1406020-12A

No Detections Were Found.

Client Sample ID: SV-13

Lab ID#: 1406020-13A

No Detections Were Found.

Client Sample ID: SV-14

Lab ID#: 1406020-14A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	2.9	15

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Client Sample ID: SV-1

Lab ID#: 1406020-01A

EPA METHOD TO-17

File Name:	**18060314**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 10:45:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 09:07 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	1.0	5.2

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	80	50-150

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Client Sample ID: SV-2

Lab ID#: 1406020-02A

EPA METHOD TO-17

File Name:	**18060315**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 11:30:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 09:50 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	72	50-150

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Client Sample ID: SV-3

Lab ID#: 1406020-03A

EPA METHOD TO-17

File Name:	**18060316**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 12:08:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 10:32 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	86	50-150

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Client Sample ID: SV-4

Lab ID#: 1406020-04A

EPA METHOD TO-17

File Name:	**18060317**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 1:05:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 11:14 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	83	50-150

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Client Sample ID: SV-5

Lab ID#: 1406020-05A

EPA METHOD TO-17

File Name:	**18060318**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 2:09:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 11:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	90	50-150

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Client Sample ID: SV-6

Lab ID#: 1406020-06A

EPA METHOD TO-17

File Name:	**18060319**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 2:56:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 12:39 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	78	50-150

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Client Sample ID: SV-7
Lab ID#: 1406020-07A
EPA METHOD TO-17

File Name:	**18060320**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 7:31:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 01:22 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	81	50-150

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Client Sample ID: SV-8

Lab ID#: 1406020-08A

EPA METHOD TO-17

File Name:	**18060321**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 8:38:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 02:04 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200

Q = Exceeds Quality Control limits.

Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	42 Q	50-150

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Client Sample ID: SV-9

Lab ID#: 1406020-09A

EPA METHOD TO-17

File Name:	**18060322**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 9:26:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 02:47 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	53	50-150

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Client Sample ID: SV-10

Lab ID#: 1406020-10A

EPA METHOD TO-17

File Name:	**18060323**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 10:13:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 03:29 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	87	50-150

eurofins | Air Toxics

Client Sample ID: SV-11

Lab ID#: 1406020-11A

EPA METHOD TO-17

File Name:	**18060324**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 11:06:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 04:11 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	91	50-150

eurofins | Air Toxics

Client Sample ID: SV-12

Lab ID#: 1406020-12A

EPA METHOD TO-17

File Name:	**18060325**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 12:15:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 04:54 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	77	50-150

eurofins | Air Toxics

Client Sample ID: SV-13

Lab ID#: 1406020-13A

EPA METHOD TO-17

File Name:	**18060326**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 1:10:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 05:37 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	90	50-150

eurofins | Air Toxics

Client Sample ID: SV-14

Lab ID#: 1406020-14A

EPA METHOD TO-17

File Name:	**18060327**	**Date of Extraction: NA**	**Date of Collection: 5/30/14 2:08:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 6/4/14 06:19 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	2.9	15

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	114	50-150

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1406020-15A

EPA METHOD TO-17

File Name:	**18060308**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 03:33 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	87	50-150

eurofins | Air Toxics

Client Sample ID: CCV
Lab ID#: 1406020-16A
EPA METHOD TO-17

File Name:	**18060303**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 11:44 AM**

Compound	%Recovery
Naphthalene	76

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	104	50-150

eurofins | Air Toxics

Client Sample ID: LCS
Lab ID#: 1406020-17A
EPA METHOD TO-17

File Name:	**18060304**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 12:27 PM**

Compound	%Recovery	Method Limits
Naphthalene	85	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	107	50-150

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Client Sample ID: LCSD

Lab ID#: 1406020-17AA

EPA METHOD TO-17

File Name:	**18060305**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 6/3/14 01:10 PM**

Compound	%Recovery	Method Limits
Naphthalene	90	70-130

Air Sample Volume(L): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	108	50-150

TO-17 SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and International laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

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

Project Manager Eva Hey

Collected by: (Print and Sign) C. Wolcott

Company Stantec Email eva.hey@stantec.com

Address 1340 Treat Blvd. Ste 300 City Walnut Creek State CA Zip 94597

Phone 925-296-2101 Fax 925-941-1401

Project Info:
P.O. #
Project # 185702877
Project Name Balhannon

Turn Around Time:
☒ Normal
☐ Rush
Specify

Reporting Units:
☐ ppmv
☐ ppbv
☐ ug/m3
☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Engraved or Stamped Tube #	Date of Collection (mm/dd/yy)	Start Time (hr:min)	End Time (hr:min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume ml	Indoor/Outdoor % RH	Indoor/Outdoor Temp	Indoor Air	Outdoor Air	Soil Vapor	Other
1	SV-1	50140124	5/30/14	1041	1045	60 ml/min	*	200			☐	☐	☒	☐
2	SV-2	50143736		1122	1130						☐	☐	☒	☐
3	SV-3	50139969		1202	1208						☐	☐	☒	☐
4	SV-4	50137210		1301	1305						☐	☐	☒	☐
5	SV-5	50148232		1405	1409						☐	☐	☒	☐
6	SV-6	50149231	↓	1452	1456						☐	☐	☒	☐
7	SV-7	50139491	5-30-14	727	731						☐	☐	☒	☐
8	SV-8	50145304		834	838						☐	☐	☒	☐
9	SV-9	50132007		922	926						☐	☐	☒	☐
10	SV-10	50150715	↓	1009	1013	↓		↓			☐	☐	☒	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	5-30-14/1700	EAT	05/03/14 0730
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: * Used syringe to pull sample at 60 ml per minute.
Analyze TO-17 for Naphthalene

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		1.0	Good	Yes No None	1406020

TO-17 SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

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

Project Manager Eva Hey
Collected by: (Print and Sign) C. Melancon
Company Stantec Email eva.hey@stantec.com
Address 1340 Treat Blvd. 500 City Walnut Creek State CA Zip 94597
Phone 925-296-2101 Fax 925-941-1401

Project Info:
P.O. #
Project # 185702548
Project Name Bakanow

Turn Around Time:
☒ Normal
☐ Rush
specify

Reporting Units:
☐ ppbv
☐ ppbv
☐ ug/m3
☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Engraved or Stamped Tube #	Date of Collection (mm/dd/yy)	Start Time (hr:min)	End Time (hr:min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume ml	Indoor/Outdoor % RH	Indoor/Outdoor Temp	Indoor Air	Outdoor Air	Soil Vapor	Other (
1	SV-11	60147764	5-30-14	1102	1106	60 ml/min	→	200			☐	☐	☒	☐
2	SV-12	60132607	↓	1211	1215	↓		↓			☐	☐	☒	☐
3	SV-13	60132646		1306	1310						☐	☐	☒	☐
4	SV-14	60132652	↓	1404	1408	↓		↓			☐	☐	☒	☐
5											☐	☐	☐	☐
6											☐	☐	☐	☐
7											☐	☐	☐	☐
8											☐	☐	☐	☐
9											☐	☐	☐	☐
10											☐	☐	☐	☐
11											☐	☐	☐	☐

Relinquished by: (signature) Date/Time 5-30-14 / 1700
Received by: (signature) Date/Time 6/3/14 0730

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:
TO-17 for Naphthalene

Lab Use Only

Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
Fedex		10	Good	Yes No None	14 06020

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6/17/2014
Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek CA 94597

Project Name: Bohannon
Project #: 185702848
Workorder #: 1406035A

Dear Ms. Eva Hey

The following report includes the data for the above referenced project for sample(s) received on 6/3/2014 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1406035A

Work Order Summary

CLIENT:	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597	**BILL TO:**	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597
PHONE:	925-299-9300	**P.O. #**	185702848.200.0002
FAX:	925-299-9302	**PROJECT #**	185702848 Bohannon
DATE RECEIVED:	06/03/2014	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	06/17/2014		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1	TO-15	4.3 "Hg	14.7 psi
02A	SV-2	TO-15	4.5 "Hg	15 psi
03A	SV-3	TO-15	5.3 "Hg	14.9 psi
04A	SV-4	TO-15	4.3 "Hg	14.8 psi
05A	SV-5	TO-15	3.1 "Hg	14.7 psi
06A	SV-6	TO-15	3.9 "Hg	14.7 psi
07A	SV-7	TO-15	2 "Hg	14.8 psi
08A	SV-8	TO-15	3.1 "Hg	14.9 psi
09A	SV-9	TO-15	1.8 "Hg	14.8 psi
10A	SV-10	TO-15	3.1 "Hg	14.9 psi
11A	SV-11	TO-15	3.7 "Hg	14.7 psi
12A	SV-12	TO-15	3.5 "Hg	14.9 psi
13A	SV-13	TO-15	3.3 "Hg	14.8 psi
14A	SV-14	TO-15	3.5 "Hg	15.2 psi
15A	Lab Blank	TO-15	NA	NA
16A	CCV	TO-15	NA	NA
17A	LCS	TO-15	NA	NA
17AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 06/17/14

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Stantec Consulting Corporation
Workorder# 1406035A

Fourteen 1 Liter Summa Canister samples were received on June 03, 2014. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples SV-4 and SV-7 due to the presence of high level target species.

Dilution was performed on samples SV-10 and SV-14 due to the presence of high level non-target species.

The recovery of surrogate 1,2-Dichloroethane-d4 in sample SV-4 was outside laboratory control limits due to high level hydrocarbon matrix interference. The surrogate recovery is flagged.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-1

Lab ID#: 1406035A-01A

No Detections Were Found.

Client Sample ID: SV-2

Lab ID#: 1406035A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	12	17	28	40
Tetrachloroethene	1.2	6.1	8.1	41

Client Sample ID: SV-3

Lab ID#: 1406035A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	1.2	6.0	6.0

Client Sample ID: SV-4

Lab ID#: 1406035A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	23	18000 E	110	83000 E
Benzene	23	64	75	200

Client Sample ID: SV-5

Lab ID#: 1406035A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.5	4.8	8.4	9.0
Acetone	11	12	26	29
Carbon Disulfide	4.5	18	14	57

Client Sample ID: SV-6

Lab ID#: 1406035A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-6

Lab ID#: 1406035A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	4.6	25	14	78

Client Sample ID: SV-7

Lab ID#: 1406035A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	220	2600	760	9100
Cyclohexane	220	1800	740	6400
2,2,4-Trimethylpentane	220	37000	1000	170000
Heptane	220	2300	880	9400
Toluene	220	370	810	1400

Client Sample ID: SV-8

Lab ID#: 1406035A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1.1	7.4	3.9	26
Cyclohexane	1.1	10	3.8	34
2,2,4-Trimethylpentane	1.1	53	5.2	250
Heptane	1.1	4.4	4.6	18

Client Sample ID: SV-9

Lab ID#: 1406035A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.9	5.3	14
Acetone	11	14	25	34
2-Butanone (Methyl Ethyl Ketone)	4.3	4.3	12	13

Client Sample ID: SV-10

Lab ID#: 1406035A-10A

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-10

Lab ID#: 1406035A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	450	5600	1600	20000
Cyclohexane	450	3300	1500	11000
2,2,4-Trimethylpentane	450	3400	2100	16000
Heptane	450	1900	1800	8000
Toluene	450	450	1700	1700

Client Sample ID: SV-11

Lab ID#: 1406035A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	1.2	5.6	6.0
Carbon Disulfide	4.6	120	14	380
Hexane	1.1	1.7	4.0	6.1
Tetrahydrofuran	1.1	8.7	3.4	26
Cyclohexane	1.1	3.0	3.9	10
Benzene	1.1	4.6	3.6	15
Trichloroethene	1.1	3.7	6.1	20
Toluene	1.1	1.2	4.3	4.6
Tetrachloroethene	1.1	24	7.7	160

Client Sample ID: SV-12

Lab ID#: 1406035A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	4.2	5.6	21
Carbon Disulfide	4.6	5.5	14	17
Hexane	1.1	17	4.0	60
Cyclohexane	1.1	15	3.9	53
2,2,4-Trimethylpentane	1.1	12	5.3	54
Benzene	1.1	1.4	3.6	4.5
Heptane	1.1	7.0	4.7	28
Tetrachloroethene	1.1	1.4	7.7	9.4

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-13

Lab ID#: 1406035A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.9	5.6	14
Ethanol	4.5	4.6	8.5	8.7
Acetone	11	17	27	40
Carbon Disulfide	4.5	21	14	66
2-Butanone (Methyl Ethyl Ketone)	4.5	5.0	13	15

Client Sample ID: SV-14

Lab ID#: 1406035A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	120	8100	400	29000
Cyclohexane	120	2000	400	6900
2,2,4-Trimethylpentane	120	14000	540	68000
Benzene	120	120	370	400
Heptane	120	4400	470	18000
Toluene	120	220	430	820

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Client Sample ID: SV-1

Lab ID#: 1406035A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061206**	**Date of Collection:**	**5/29/14 10:14:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**6/12/14 12:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	28	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	4.7	Not Detected	14	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected

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Client Sample ID: SV-1

Lab ID#: 1406035A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061206**	**Date of Collection:**	**5/29/14 10:14:00 AM**
Dil. Factor:	**2.33**	**Date of Analysis:**	**6/12/14 12:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SV-2

Lab ID#: 1406035A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061207**	**Date of Collection:**	**5/29/14 11:24:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**6/12/14 01:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	17	28	40
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	6.1	8.1	41
2-Hexanone	4.8	Not Detected	19	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-2

Lab ID#: 1406035A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061207**	**Date of Collection:**	**5/29/14 11:24:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**6/12/14 01:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	104	70-130

eurofins | Air Toxics

Client Sample ID: SV-3

Lab ID#: 1406035A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061208**	**Date of Collection:**	**5/29/14 12:02:00 PM**
Dil. Factor:	**2.44**	**Date of Analysis:**	**6/12/14 01:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	1.2	6.0	6.0
Freon 114	1.2	Not Detected	8.5	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.9	Not Detected	9.2	Not Detected
Freon 113	1.2	Not Detected	9.4	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	4.9	Not Detected	15	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.2	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.3	Not Detected
2-Hexanone	4.9	Not Detected	20	Not Detected

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Client Sample ID: SV-3

Lab ID#: 1406035A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061208**	**Date of Collection:**	**5/29/14 12:02:00 PM**
Dil. Factor:	**2.44**	**Date of Analysis:**	**6/12/14 01:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.4	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.0	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.4	Not Detected
Propylbenzene	1.2	Not Detected	6.0	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.0	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.9	Not Detected	36	Not Detected
Hexachlorobutadiene	4.9	Not Detected	52	Not Detected
Naphthalene	4.9	Not Detected	26	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: SV-4

Lab ID#: 1406035A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061209**	**Date of Collection:**	**5/29/14 12:55:00 PM**
Dil. Factor:	**46.8**	**Date of Analysis:**	**6/12/14 01:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	23	Not Detected	120	Not Detected
Freon 114	23	Not Detected	160	Not Detected
Chloromethane	230	Not Detected	480	Not Detected
Vinyl Chloride	23	Not Detected	60	Not Detected
1,3-Butadiene	23	Not Detected	52	Not Detected
Bromomethane	230	Not Detected	910	Not Detected
Chloroethane	94	Not Detected	250	Not Detected
Freon 11	23	Not Detected	130	Not Detected
Ethanol	94	Not Detected	180	Not Detected
Freon 113	23	Not Detected	180	Not Detected
1,1-Dichloroethene	23	Not Detected	93	Not Detected
Acetone	230	Not Detected	560	Not Detected
2-Propanol	94	Not Detected	230	Not Detected
Carbon Disulfide	94	Not Detected	290	Not Detected
3-Chloropropene	94	Not Detected	290	Not Detected
Methylene Chloride	230	Not Detected	810	Not Detected
Methyl tert-butyl ether	23	Not Detected	84	Not Detected
trans-1,2-Dichloroethene	23	Not Detected	93	Not Detected
Hexane	23	Not Detected	82	Not Detected
1,1-Dichloroethane	23	Not Detected	95	Not Detected
2-Butanone (Methyl Ethyl Ketone)	94	Not Detected	280	Not Detected
cis-1,2-Dichloroethene	23	Not Detected	93	Not Detected
Tetrahydrofuran	23	Not Detected	69	Not Detected
Chloroform	23	Not Detected	110	Not Detected
1,1,1-Trichloroethane	23	Not Detected	130	Not Detected
Cyclohexane	23	Not Detected	80	Not Detected
Carbon Tetrachloride	23	Not Detected	150	Not Detected
2,2,4-Trimethylpentane	23	18000 E	110	83000 E
Benzene	23	64	75	200
1,2-Dichloroethane	23	Not Detected	95	Not Detected
Heptane	23	Not Detected	96	Not Detected
Trichloroethene	23	Not Detected	120	Not Detected
1,2-Dichloropropane	23	Not Detected	110	Not Detected
1,4-Dioxane	94	Not Detected	340	Not Detected
Bromodichloromethane	23	Not Detected	160	Not Detected
cis-1,3-Dichloropropene	23	Not Detected	110	Not Detected
4-Methyl-2-pentanone	23	Not Detected	96	Not Detected
Toluene	23	Not Detected	88	Not Detected
trans-1,3-Dichloropropene	23	Not Detected	110	Not Detected
1,1,2-Trichloroethane	23	Not Detected	130	Not Detected
Tetrachloroethene	23	Not Detected	160	Not Detected
2-Hexanone	94	Not Detected	380	Not Detected

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Client Sample ID: SV-4

Lab ID#: 1406035A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061209**	**Date of Collection:**	**5/29/14 12:55:00 PM**
Dil. Factor:	**46.8**	**Date of Analysis:**	**6/12/14 01:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	23	Not Detected	200	Not Detected
1,2-Dibromoethane (EDB)	23	Not Detected	180	Not Detected
Chlorobenzene	23	Not Detected	110	Not Detected
Ethyl Benzene	23	Not Detected	100	Not Detected
m,p-Xylene	23	Not Detected	100	Not Detected
o-Xylene	23	Not Detected	100	Not Detected
Styrene	23	Not Detected	100	Not Detected
Bromoform	23	Not Detected	240	Not Detected
Cumene	23	Not Detected	120	Not Detected
1,1,2,2-Tetrachloroethane	23	Not Detected	160	Not Detected
Propylbenzene	23	Not Detected	120	Not Detected
4-Ethyltoluene	23	Not Detected	120	Not Detected
1,3,5-Trimethylbenzene	23	Not Detected	120	Not Detected
1,2,4-Trimethylbenzene	23	Not Detected	120	Not Detected
1,3-Dichlorobenzene	23	Not Detected	140	Not Detected
1,4-Dichlorobenzene	23	Not Detected	140	Not Detected
alpha-Chlorotoluene	23	Not Detected	120	Not Detected
1,2-Dichlorobenzene	23	Not Detected	140	Not Detected
1,2,4-Trichlorobenzene	94	Not Detected	690	Not Detected
Hexachlorobutadiene	94	Not Detected	1000	Not Detected
Naphthalene	94	Not Detected	490	Not Detected

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	136 Q	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: SV-5

Lab ID#: 1406035A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061216**	**Date of Collection:**	**5/29/14 2:01:00 PM**
Dil. Factor:	**2.23**	**Date of Analysis:**	**6/12/14 07:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	4.8	8.4	9.0
Freon 113	1.1	Not Detected	8.5	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	12	26	29
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	4.5	18	14	57
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

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Client Sample ID: SV-5

Lab ID#: 1406035A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061216**	**Date of Collection:**	**5/29/14 2:01:00 PM**
Dil. Factor:	**2.23**	**Date of Analysis:**	**6/12/14 07:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	4.5	Not Detected	23	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SV-6

Lab ID#: 1406035A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061217**	**Date of Collection:**	**5/29/14 2:45:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**6/12/14 08:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 114	1.2	Not Detected	8.0	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	2.9	Not Detected
1,3-Butadiene	1.2	Not Detected	2.5	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.6	Not Detected	8.7	Not Detected
Freon 113	1.2	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	25	14	78
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.6	Not Detected
Heptane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.2	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.7	Not Detected
Toluene	1.2	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected

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Client Sample ID: SV-6

Lab ID#: 1406035A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061217**	**Date of Collection:**	**5/29/14 2:45:00 PM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**6/12/14 08:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.8	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	7.9	Not Detected
Propylbenzene	1.2	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	4.6	Not Detected	24	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

eurofins | Air Toxics

Client Sample ID: SV-7

Lab ID#: 1406035A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061212**	**Date of Collection:**	**5/30/14 7:20:00 AM**
Dil. Factor:	**430**	**Date of Analysis:**	**6/12/14 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	Not Detected	1100	Not Detected
Freon 114	220	Not Detected	1500	Not Detected
Chloromethane	2200	Not Detected	4400	Not Detected
Vinyl Chloride	220	Not Detected	550	Not Detected
1,3-Butadiene	220	Not Detected	480	Not Detected
Bromomethane	2200	Not Detected	8300	Not Detected
Chloroethane	860	Not Detected	2300	Not Detected
Freon 11	220	Not Detected	1200	Not Detected
Ethanol	860	Not Detected	1600	Not Detected
Freon 113	220	Not Detected	1600	Not Detected
1,1-Dichloroethene	220	Not Detected	850	Not Detected
Acetone	2200	Not Detected	5100	Not Detected
2-Propanol	860	Not Detected	2100	Not Detected
Carbon Disulfide	860	Not Detected	2700	Not Detected
3-Chloropropene	860	Not Detected	2700	Not Detected
Methylene Chloride	2200	Not Detected	7500	Not Detected
Methyl tert-butyl ether	220	Not Detected	780	Not Detected
trans-1,2-Dichloroethene	220	Not Detected	850	Not Detected
Hexane	220	2600	760	9100
1,1-Dichloroethane	220	Not Detected	870	Not Detected
2-Butanone (Methyl Ethyl Ketone)	860	Not Detected	2500	Not Detected
cis-1,2-Dichloroethene	220	Not Detected	850	Not Detected
Tetrahydrofuran	220	Not Detected	630	Not Detected
Chloroform	220	Not Detected	1000	Not Detected
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected
Cyclohexane	220	1800	740	6400
Carbon Tetrachloride	220	Not Detected	1400	Not Detected
2,2,4-Trimethylpentane	220	37000	1000	170000
Benzene	220	Not Detected	690	Not Detected
1,2-Dichloroethane	220	Not Detected	870	Not Detected
Heptane	220	2300	880	9400
Trichloroethene	220	Not Detected	1200	Not Detected
1,2-Dichloropropane	220	Not Detected	990	Not Detected
1,4-Dioxane	860	Not Detected	3100	Not Detected
Bromodichloromethane	220	Not Detected	1400	Not Detected
cis-1,3-Dichloropropene	220	Not Detected	980	Not Detected
4-Methyl-2-pentanone	220	Not Detected	880	Not Detected
Toluene	220	370	810	1400
trans-1,3-Dichloropropene	220	Not Detected	980	Not Detected
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected
Tetrachloroethene	220	Not Detected	1400	Not Detected
2-Hexanone	860	Not Detected	3500	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-7

Lab ID#: 1406035A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061212**	**Date of Collection:**	**5/30/14 7:20:00 AM**
Dil. Factor:	**430**	**Date of Analysis:**	**6/12/14 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	220	Not Detected	1800	Not Detected
1,2-Dibromoethane (EDB)	220	Not Detected	1600	Not Detected
Chlorobenzene	220	Not Detected	990	Not Detected
Ethyl Benzene	220	Not Detected	930	Not Detected
m,p-Xylene	220	Not Detected	930	Not Detected
o-Xylene	220	Not Detected	930	Not Detected
Styrene	220	Not Detected	920	Not Detected
Bromoform	220	Not Detected	2200	Not Detected
Cumene	220	Not Detected	1000	Not Detected
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected
Propylbenzene	220	Not Detected	1000	Not Detected
4-Ethyltoluene	220	Not Detected	1000	Not Detected
1,3,5-Trimethylbenzene	220	Not Detected	1000	Not Detected
1,2,4-Trimethylbenzene	220	Not Detected	1000	Not Detected
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected
alpha-Chlorotoluene	220	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	860	Not Detected	6400	Not Detected
Hexachlorobutadiene	860	Not Detected	9200	Not Detected
Naphthalene	860	Not Detected	4500	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-8

Lab ID#: 1406035A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061218**	**Date of Collection:**	**5/30/14 8:27:00 AM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**6/12/14 08:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	27	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	4.5	Not Detected	14	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	7.4	3.9	26
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	10	3.8	34
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	53	5.2	250
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	4.4	4.6	18
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

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Client Sample ID: SV-8

Lab ID#: 1406035A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061218**	**Date of Collection:**	**5/30/14 8:27:00 AM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**6/12/14 08:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	4.5	Not Detected	23	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: SV-9

Lab ID#: 1406035A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061219**	**Date of Collection:**	**5/30/14 9:15:00 AM**
Dil. Factor:	**2.13**	**Date of Analysis:**	**6/13/14 05:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.9	5.3	14
Freon 114	1.1	Not Detected	7.4	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	11	Not Detected	41	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Ethanol	4.3	Not Detected	8.0	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Acetone	11	14	25	34
2-Propanol	4.3	Not Detected	10	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
3-Chloropropene	4.3	Not Detected	13	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.8	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	4.3	12	13
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.1	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	Not Detected	5.7	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
Bromodichloromethane	1.1	Not Detected	7.1	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	Not Detected	7.2	Not Detected
2-Hexanone	4.3	Not Detected	17	Not Detected

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Client Sample ID: SV-9

Lab ID#: 1406035A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061219**	**Date of Collection:**	**5/30/14 9:15:00 AM**
Dil. Factor:	**2.13**	**Date of Analysis:**	**6/13/14 05:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	Not Detected	4.6	Not Detected
m,p-Xylene	1.1	Not Detected	4.6	Not Detected
o-Xylene	1.1	Not Detected	4.6	Not Detected
Styrene	1.1	Not Detected	4.5	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
Propylbenzene	1.1	Not Detected	5.2	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	45	Not Detected
Naphthalene	4.3	Not Detected	22	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SV-10

Lab ID#: 1406035A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061215**	**Date of Collection:**	**5/30/14 10:01:00 AM**
Dil. Factor:	**898**	**Date of Analysis:**	**6/12/14 07:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	450	Not Detected	2200	Not Detected
Freon 114	450	Not Detected	3100	Not Detected
Chloromethane	4500	Not Detected	9300	Not Detected
Vinyl Chloride	450	Not Detected	1100	Not Detected
1,3-Butadiene	450	Not Detected	990	Not Detected
Bromomethane	4500	Not Detected	17000	Not Detected
Chloroethane	1800	Not Detected	4700	Not Detected
Freon 11	450	Not Detected	2500	Not Detected
Ethanol	1800	Not Detected	3400	Not Detected
Freon 113	450	Not Detected	3400	Not Detected
1,1-Dichloroethene	450	Not Detected	1800	Not Detected
Acetone	4500	Not Detected	11000	Not Detected
2-Propanol	1800	Not Detected	4400	Not Detected
Carbon Disulfide	1800	Not Detected	5600	Not Detected
3-Chloropropene	1800	Not Detected	5600	Not Detected
Methylene Chloride	4500	Not Detected	16000	Not Detected
Methyl tert-butyl ether	450	Not Detected	1600	Not Detected
trans-1,2-Dichloroethene	450	Not Detected	1800	Not Detected
Hexane	450	5600	1600	20000
1,1-Dichloroethane	450	Not Detected	1800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1800	Not Detected	5300	Not Detected
cis-1,2-Dichloroethene	450	Not Detected	1800	Not Detected
Tetrahydrofuran	450	Not Detected	1300	Not Detected
Chloroform	450	Not Detected	2200	Not Detected
1,1,1-Trichloroethane	450	Not Detected	2400	Not Detected
Cyclohexane	450	3300	1500	11000
Carbon Tetrachloride	450	Not Detected	2800	Not Detected
2,2,4-Trimethylpentane	450	3400	2100	16000
Benzene	450	Not Detected	1400	Not Detected
1,2-Dichloroethane	450	Not Detected	1800	Not Detected
Heptane	450	1900	1800	8000
Trichloroethene	450	Not Detected	2400	Not Detected
1,2-Dichloropropane	450	Not Detected	2100	Not Detected
1,4-Dioxane	1800	Not Detected	6500	Not Detected
Bromodichloromethane	450	Not Detected	3000	Not Detected
cis-1,3-Dichloropropene	450	Not Detected	2000	Not Detected
4-Methyl-2-pentanone	450	Not Detected	1800	Not Detected
Toluene	450	450	1700	1700
trans-1,3-Dichloropropene	450	Not Detected	2000	Not Detected
1,1,2-Trichloroethane	450	Not Detected	2400	Not Detected
Tetrachloroethene	450	Not Detected	3000	Not Detected
2-Hexanone	1800	Not Detected	7400	Not Detected

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Client Sample ID: SV-10

Lab ID#: 1406035A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061215**	**Date of Collection:**	**5/30/14 10:01:00 AM**
Dil. Factor:	**898**	**Date of Analysis:**	**6/12/14 07:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	450	Not Detected	3800	Not Detected
1,2-Dibromoethane (EDB)	450	Not Detected	3400	Not Detected
Chlorobenzene	450	Not Detected	2100	Not Detected
Ethyl Benzene	450	Not Detected	1900	Not Detected
m,p-Xylene	450	Not Detected	1900	Not Detected
o-Xylene	450	Not Detected	1900	Not Detected
Styrene	450	Not Detected	1900	Not Detected
Bromoform	450	Not Detected	4600	Not Detected
Cumene	450	Not Detected	2200	Not Detected
1,1,2,2-Tetrachloroethane	450	Not Detected	3100	Not Detected
Propylbenzene	450	Not Detected	2200	Not Detected
4-Ethyltoluene	450	Not Detected	2200	Not Detected
1,3,5-Trimethylbenzene	450	Not Detected	2200	Not Detected
1,2,4-Trimethylbenzene	450	Not Detected	2200	Not Detected
1,3-Dichlorobenzene	450	Not Detected	2700	Not Detected
1,4-Dichlorobenzene	450	Not Detected	2700	Not Detected
alpha-Chlorotoluene	450	Not Detected	2300	Not Detected
1,2-Dichlorobenzene	450	Not Detected	2700	Not Detected
1,2,4-Trichlorobenzene	1800	Not Detected	13000	Not Detected
Hexachlorobutadiene	1800	Not Detected	19000	Not Detected
Naphthalene	1800	Not Detected	9400	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: SV-11

Lab ID#: 1406035A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061220**	**Date of Collection:**	**5/30/14 10:52:00 AM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**6/13/14 06:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	1.2	5.6	6.0
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	120	14	380
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	1.7	4.0	6.1
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	8.7	3.4	26
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	3.0	3.9	10
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	4.6	3.6	15
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	3.7	6.1	20
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	1.2	4.3	4.6
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	24	7.7	160
2-Hexanone	4.6	Not Detected	19	Not Detected

eurofins | Air Toxics

Client Sample ID: SV-11

Lab ID#: 1406035A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061220**	**Date of Collection:**	**5/30/14 10:52:00 AM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**6/13/14 06:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	4.6	Not Detected	24	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-12

Lab ID#: 1406035A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061221**	**Date of Collection:**	**5/30/14 12:03:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**6/13/14 06:58 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	4.2	5.6	21
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	5.5	14	17
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	17	4.0	60
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	15	3.9	53
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	12	5.3	54
Benzene	1.1	1.4	3.6	4.5
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	7.0	4.7	28
Trichloroethene	1.1	Not Detected	6.1	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	1.4	7.7	9.4
2-Hexanone	4.6	Not Detected	19	Not Detected

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Client Sample ID: SV-12

Lab ID#: 1406035A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061221**	**Date of Collection:**	**5/30/14 12:03:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**6/13/14 06:58 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	4.6	Not Detected	24	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SV-13

Lab ID#: 1406035A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061222**	**Date of Collection:**	**5/30/14 12:57:00 PM**
Dil. Factor:	**2.25**	**Date of Analysis:**	**6/13/14 07:26 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.9	5.6	14
Freon 114	1.1	Not Detected	7.9	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	4.6	8.5	8.7
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	17	27	40
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	4.5	21	14	66
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	5.0	13	15
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

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Client Sample ID: SV-13

Lab ID#: 1406035A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061222**	**Date of Collection:**	**5/30/14 12:57:00 PM**
Dil. Factor:	**2.25**	**Date of Analysis:**	**6/13/14 07:26 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.6	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	4.5	Not Detected	24	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: SV-14

Lab ID#: 1406035A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061213**	**Date of Collection:**	**5/30/14 1:54:00 PM**
Dil. Factor:	**230**	**Date of Analysis:**	**6/12/14 06:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	570	Not Detected
Freon 114	120	Not Detected	800	Not Detected
Chloromethane	1200	Not Detected	2400	Not Detected
Vinyl Chloride	120	Not Detected	290	Not Detected
1,3-Butadiene	120	Not Detected	250	Not Detected
Bromomethane	1200	Not Detected	4500	Not Detected
Chloroethane	460	Not Detected	1200	Not Detected
Freon 11	120	Not Detected	650	Not Detected
Ethanol	460	Not Detected	870	Not Detected
Freon 113	120	Not Detected	880	Not Detected
1,1-Dichloroethene	120	Not Detected	460	Not Detected
Acetone	1200	Not Detected	2700	Not Detected
2-Propanol	460	Not Detected	1100	Not Detected
Carbon Disulfide	460	Not Detected	1400	Not Detected
3-Chloropropene	460	Not Detected	1400	Not Detected
Methylene Chloride	1200	Not Detected	4000	Not Detected
Methyl tert-butyl ether	120	Not Detected	410	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	460	Not Detected
Hexane	120	8100	400	29000
1,1-Dichloroethane	120	Not Detected	460	Not Detected
2-Butanone (Methyl Ethyl Ketone)	460	Not Detected	1400	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	460	Not Detected
Tetrahydrofuran	120	Not Detected	340	Not Detected
Chloroform	120	Not Detected	560	Not Detected
1,1,1-Trichloroethane	120	Not Detected	630	Not Detected
Cyclohexane	120	2000	400	6900
Carbon Tetrachloride	120	Not Detected	720	Not Detected
2,2,4-Trimethylpentane	120	14000	540	68000
Benzene	120	120	370	400
1,2-Dichloroethane	120	Not Detected	460	Not Detected
Heptane	120	4400	470	18000
Trichloroethene	120	Not Detected	620	Not Detected
1,2-Dichloropropane	120	Not Detected	530	Not Detected
1,4-Dioxane	460	Not Detected	1600	Not Detected
Bromodichloromethane	120	Not Detected	770	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	520	Not Detected
4-Methyl-2-pentanone	120	Not Detected	470	Not Detected
Toluene	120	220	430	820
trans-1,3-Dichloropropene	120	Not Detected	520	Not Detected
1,1,2-Trichloroethane	120	Not Detected	630	Not Detected
Tetrachloroethene	120	Not Detected	780	Not Detected
2-Hexanone	460	Not Detected	1900	Not Detected

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Client Sample ID: SV-14

Lab ID#: 1406035A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061213**	**Date of Collection:**	**5/30/14 1:54:00 PM**
Dil. Factor:	**230**	**Date of Analysis:**	**6/12/14 06:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	120	Not Detected	980	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	880	Not Detected
Chlorobenzene	120	Not Detected	530	Not Detected
Ethyl Benzene	120	Not Detected	500	Not Detected
m,p-Xylene	120	Not Detected	500	Not Detected
o-Xylene	120	Not Detected	500	Not Detected
Styrene	120	Not Detected	490	Not Detected
Bromoform	120	Not Detected	1200	Not Detected
Cumene	120	Not Detected	560	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	790	Not Detected
Propylbenzene	120	Not Detected	560	Not Detected
4-Ethyltoluene	120	Not Detected	560	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	560	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	560	Not Detected
1,3-Dichlorobenzene	120	Not Detected	690	Not Detected
1,4-Dichlorobenzene	120	Not Detected	690	Not Detected
alpha-Chlorotoluene	120	Not Detected	600	Not Detected
1,2-Dichlorobenzene	120	Not Detected	690	Not Detected
1,2,4-Trichlorobenzene	460	Not Detected	3400	Not Detected
Hexachlorobutadiene	460	Not Detected	4900	Not Detected
Naphthalene	460	Not Detected	2400	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1406035A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 11:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1406035A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 11:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1406035A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 08:17 AM**

Compound	%Recovery
Freon 12	104
Freon 114	98
Chloromethane	91
Vinyl Chloride	101
1,3-Butadiene	90
Bromomethane	88
Chloroethane	102
Freon 11	99
Ethanol	95
Freon 113	97
1,1-Dichloroethene	95
Acetone	97
2-Propanol	94
Carbon Disulfide	95
3-Chloropropene	96
Methylene Chloride	100
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	104
Hexane	94
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	100
Tetrahydrofuran	92
Chloroform	101
1,1,1-Trichloroethane	101
Cyclohexane	98
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	99
Benzene	94
1,2-Dichloroethane	106
Heptane	97
Trichloroethene	97
1,2-Dichloropropane	94
1,4-Dioxane	93
Bromodichloromethane	100
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	97
Toluene	97
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	101
Tetrachloroethene	100
2-Hexanone	100

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Client Sample ID: CCV

Lab ID#: 1406035A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 08:17 AM**	

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	101
Chlorobenzene	98
Ethyl Benzene	100
m,p-Xylene	101
o-Xylene	101
Styrene	103
Bromoform	104
Cumene	103
1,1,2,2-Tetrachloroethane	101
Propylbenzene	104
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	112
Naphthalene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1406035A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 08:43 AM**	

Compound	%Recovery	Method Limits
Freon 12	109	70-130
Freon 114	109	70-130
Chloromethane	98	70-130
Vinyl Chloride	110	70-130
1,3-Butadiene	98	70-130
Bromomethane	95	70-130
Chloroethane	109	70-130
Freon 11	106	70-130
Ethanol	106	70-130
Freon 113	117	70-130
1,1-Dichloroethene	118	70-130
Acetone	109	70-130
2-Propanol	100	70-130
Carbon Disulfide	96	70-130
3-Chloropropene	107	70-130
Methylene Chloride	120	70-130
Methyl tert-butyl ether	106	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	104	70-130
1,1-Dichloroethane	108	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	119	70-130
Tetrahydrofuran	98	70-130
Chloroform	108	70-130
1,1,1-Trichloroethane	107	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	110	70-130
2,2,4-Trimethylpentane	111	70-130
Benzene	102	70-130
1,2-Dichloroethane	110	70-130
Heptane	107	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	101	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	107	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	103	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	100	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	103	70-130
2-Hexanone	104	70-130

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Client Sample ID: LCS

Lab ID#: 1406035A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 08:43 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	110	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	104	70-130
o-Xylene	102	70-130
Styrene	103	70-130
Bromoform	113	70-130
Cumene	109	70-130
1,1,2,2-Tetrachloroethane	104	70-130
Propylbenzene	109	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	103	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	106	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	115	70-130
Hexachlorobutadiene	117	70-130
Naphthalene	60	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1406035A-17AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 09:10 AM**	

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Freon 114	105	70-130
Chloromethane	95	70-130
Vinyl Chloride	106	70-130
1,3-Butadiene	95	70-130
Bromomethane	95	70-130
Chloroethane	105	70-130
Freon 11	102	70-130
Ethanol	101	70-130
Freon 113	117	70-130
1,1-Dichloroethene	118	70-130
Acetone	109	70-130
2-Propanol	99	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	102	70-130
Methylene Chloride	115	70-130
Methyl tert-butyl ether	104	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	102	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	105	70-130
cis-1,2-Dichloroethene	121	70-130
Tetrahydrofuran	98	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	107	70-130
2,2,4-Trimethylpentane	110	70-130
Benzene	99	70-130
1,2-Dichloroethane	108	70-130
Heptane	106	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	99	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	107	70-130
4-Methyl-2-pentanone	102	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	103	70-130
2-Hexanone	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1406035A-17AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/14 09:10 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	109	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	104	70-130
o-Xylene	100	70-130
Styrene	101	70-130
Bromoform	111	70-130
Cumene	107	70-130
1,1,2,2-Tetrachloroethane	103	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	105	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	103	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	117	70-130
Hexachlorobutadiene	117	70-130
Naphthalene	61	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	103	70-130

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Eva Hey
Collected by: (Print and Sign) C. Melancon
Company Stantec Email eva.hey@stantec.com
Address 1340 Treat Blvd. Ste 300 City Walnut Creek State CA Zip 94597
Phone 925-296-2101 Fax 925-941-1401

Project Info:
P.O. #
Project # 185702848 77
Project Name Bohannon

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV-1	37302	5-29-14	1014	TO-15w/napthelene and	28	4		
02A	SV-2	31762		1124	ASTM D-1946	29	4		
03A	SV-3	37405		1202		29	4		
04A	SV-4	13384		1255		30	4		
05A	SV-5	37676		1401		30	4		
06A	SV-6	37362		1445		30	4		
07A	SV-7	1582	5-30-14	720		30	4		
08A	SV-8	37350		827		30	4		
09A	SV-9	1614		915		30	4		
10A	SV-10	36443		1001		30	4		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
5-30-14/1700	EAT 06/03/14 1015
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No None	1406035

Form 1293 rev.11

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Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Eva Hey
Collected by: (Print and Sign) C. Melancon
Company Stantec Email eva.hey@stantec.com
Address 1340 Treat Blvd. Ste. 300 City Walnut Creek State CA Zip 94597
Phone 925-296-2101 Fax 925-941-1401

Project Info:
P.O. #
Project # 185702878
Project Name Bohannon

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
11A	SV-11	15764	5-30-14	1052	TO-15 w/Naphelene	30	4		
12A	SV-12	37425	↓	1203	and ASTM D-1946	30	4		
13A	SV-13	1636	↓	1257	↓	30	4		
14A	SV-14	1528	↓	1354	↓	20	3		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
5-30-14	EAT 06/03/14 1015
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		NA	Good	Yes No (None)	1406035

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6/16/2014
Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek CA 94597

Project Name: Bohannon
Project #: 185702848
Workorder #: 1406035B

Dear Ms. Eva Hey

The following report includes the data for the above referenced project for sample(s) received on 6/3/2014 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1406035B

Work Order Summary

CLIENT:	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597	**BILL TO:**	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597
PHONE:	925-299-9300	**P.O. #**	185702848.200.0002
FAX:	925-299-9302	**PROJECT #**	185702848 Bohannon
DATE RECEIVED:	06/03/2014	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	06/16/2014		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1	Modified ASTM D-1946	4.3 "Hg	14.7 psi
02A	SV-2	Modified ASTM D-1946	4.5 "Hg	15 psi
03A	SV-3	Modified ASTM D-1946	5.3 "Hg	14.9 psi
04A	SV-4	Modified ASTM D-1946	4.3 "Hg	14.8 psi
05A	SV-5	Modified ASTM D-1946	3.1 "Hg	14.7 psi
06A	SV-6	Modified ASTM D-1946	3.9 "Hg	14.7 psi
07A	SV-7	Modified ASTM D-1946	2 "Hg	14.8 psi
08A	SV-8	Modified ASTM D-1946	3.1 "Hg	14.9 psi
09A	SV-9	Modified ASTM D-1946	1.8 "Hg	14.8 psi
10A	SV-10	Modified ASTM D-1946	3.1 "Hg	14.9 psi
11A	SV-11	Modified ASTM D-1946	3.7 "Hg	14.7 psi
12A	SV-12	Modified ASTM D-1946	3.5 "Hg	14.9 psi
13A	SV-13	Modified ASTM D-1946	3.3 "Hg	14.8 psi
14A	SV-14	Modified ASTM D-1946	3.5 "Hg	15.2 psi
15A	Lab Blank	Modified ASTM D-1946	NA	NA
15B	Lab Blank	Modified ASTM D-1946	NA	NA
16A	LCS	Modified ASTM D-1946	NA	NA
16AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 06/16/14

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-13-6, UT NELAP CA009332013-4, VA NELAP - 460197, WA NELAP - C935
Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2013, Expiration date: 10/17/2014.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Stantec Consulting Corporation
Workorder# 1406035B

Fourteen 1 Liter Summa Canister samples were received on June 03, 2014. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV-1

Lab ID#: 1406035B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.44	9.7
Nitrogen	0.44	83
Carbon Dioxide	0.044	7.7

Client Sample ID: SV-2

Lab ID#: 1406035B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	10
Nitrogen	0.24	84
Carbon Dioxide	0.024	6.1

Client Sample ID: SV-3

Lab ID#: 1406035B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	14
Nitrogen	0.24	82
Carbon Dioxide	0.024	4.5

Client Sample ID: SV-4

Lab ID#: 1406035B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.44	1.3
Nitrogen	0.44	78
Carbon Dioxide	0.044	19
Methane	0.00044	1.2

Client Sample ID: SV-5

Lab ID#: 1406035B-05A

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV-5

Lab ID#: 1406035B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	10
Nitrogen	0.22	79
Carbon Dioxide	0.022	9.6
Methane	0.00022	0.0010
Helium	0.11	0.92

Client Sample ID: SV-6

Lab ID#: 1406035B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	3.3
Nitrogen	0.23	87
Carbon Dioxide	0.023	10
Methane	0.00023	0.00031

Client Sample ID: SV-7

Lab ID#: 1406035B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	5.9
Nitrogen	0.22	84
Carbon Dioxide	0.022	10
Methane	0.00022	0.017

Client Sample ID: SV-8

Lab ID#: 1406035B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	8.1
Nitrogen	0.22	83
Carbon Dioxide	0.022	8.8
Methane	0.00022	0.00080

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV-8

Lab ID#: 1406035B-08A

Helium	0.11	0.13

Client Sample ID: SV-9

Lab ID#: 1406035B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	6.4
Nitrogen	0.21	84
Carbon Dioxide	0.021	9.0
Methane	0.00021	0.0016

Client Sample ID: SV-10

Lab ID#: 1406035B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.4
Nitrogen	0.22	83
Carbon Dioxide	0.022	15
Methane	0.00022	0.52

Client Sample ID: SV-11

Lab ID#: 1406035B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.8
Nitrogen	0.23	88
Carbon Dioxide	0.023	1.9

Client Sample ID: SV-12

Lab ID#: 1406035B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.6
Nitrogen	0.23	84

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV-12

Lab ID#: 1406035B-12A

Carbon Dioxide	0.023	6.5
Methane	0.00023	0.0026

Client Sample ID: SV-13

Lab ID#: 1406035B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	7.3
Nitrogen	0.22	84
Carbon Dioxide	0.022	8.3

Client Sample ID: SV-14

Lab ID#: 1406035B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	10
Nitrogen	0.23	83
Carbon Dioxide	0.023	6.6
Methane	0.00023	0.56

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Client Sample ID: SV-1

Lab ID#: 1406035B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060918**	**Date of Collection: 5/29/14 10:14:00 AM**	
Dil. Factor:	**4.43**	**Date of Analysis: 6/9/14 04:10 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.44	9.7
Nitrogen	0.44	83
Carbon Dioxide	0.044	7.7
Methane	0.00044	Not Detected
Helium	0.22	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-2

Lab ID#: 1406035B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060906**	**Date of Collection: 5/29/14 11:24:00 AM**	
Dil. Factor:	**2.38**	**Date of Analysis: 6/9/14 10:41 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	10
Nitrogen	0.24	84
Carbon Dioxide	0.024	6.1
Methane	0.00024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-3

Lab ID#: 1406035B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060907**	**Date of Collection: 5/29/14 12:02:00 PM**	
Dil. Factor:	**2.45**	**Date of Analysis: 6/9/14 11:12 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	14
Nitrogen	0.24	82
Carbon Dioxide	0.024	4.5
Methane	0.00024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-4

Lab ID#: 1406035B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060919**	**Date of Collection: 5/29/14 12:55:00 PM**	
Dil. Factor:	**4.38**	**Date of Analysis: 6/9/14 04:36 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.44	1.3
Nitrogen	0.44	78
Carbon Dioxide	0.044	19
Methane	0.00044	1.2
Helium	0.22	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-5

Lab ID#: 1406035B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060908**	**Date of Collection: 5/29/14 2:01:00 PM**	
Dil. Factor:	**2.23**	**Date of Analysis: 6/9/14 11:35 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	10
Nitrogen	0.22	79
Carbon Dioxide	0.022	9.6
Methane	0.00022	0.0010
Helium	0.11	0.92

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-6

Lab ID#: 1406035B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060909**	**Date of Collection: 5/29/14 2:45:00 PM**	
Dil. Factor:	**2.30**	**Date of Analysis: 6/9/14 12:02 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	3.3
Nitrogen	0.23	87
Carbon Dioxide	0.023	10
Methane	0.00023	0.00031
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-7

Lab ID#: 1406035B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060910**	**Date of Collection: 5/30/14 7:20:00 AM**	
Dil. Factor:	**2.15**	**Date of Analysis: 6/9/14 12:37 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.22	5.9
Nitrogen	0.22	84
Carbon Dioxide	0.022	10
Methane	0.00022	0.017
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-8

Lab ID#: 1406035B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060911**	**Date of Collection: 5/30/14 8:27:00 AM**	
Dil. Factor:	**2.24**	**Date of Analysis: 6/9/14 01:07 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	8.1
Nitrogen	0.22	83
Carbon Dioxide	0.022	8.8
Methane	0.00022	0.00080
Helium	0.11	0.13

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-9

Lab ID#: 1406035B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060912**	**Date of Collection: 5/30/14 9:15:00 AM**	
Dil. Factor:	**2.14**	**Date of Analysis: 6/9/14 01:33 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	6.4
Nitrogen	0.21	84
Carbon Dioxide	0.021	9.0
Methane	0.00021	0.0016
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-10

Lab ID#: 1406035B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060913**	**Date of Collection: 5/30/14 10:01:00 AM**	
Dil. Factor:	**2.24**	**Date of Analysis: 6/9/14 01:58 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.22	1.4
Nitrogen	0.22	83
Carbon Dioxide	0.022	15
Methane	0.00022	0.52
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-11

Lab ID#: 1406035B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060914**	**Date of Collection: 5/30/14 10:52:00 AM**	
Dil. Factor:	**2.28**	**Date of Analysis: 6/9/14 02:22 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.8
Nitrogen	0.23	88
Carbon Dioxide	0.023	1.9
Methane	0.00023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-12

Lab ID#: 1406035B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060915**	**Date of Collection: 5/30/14 12:03:00 PM**	
Dil. Factor:	**2.28**	**Date of Analysis: 6/9/14 02:44 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	9.6
Nitrogen	0.23	84
Carbon Dioxide	0.023	6.5
Methane	0.00023	0.0026
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-13

Lab ID#: 1406035B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060916**	**Date of Collection: 5/30/14 12:57:00 PM**	
Dil. Factor:	**2.25**	**Date of Analysis: 6/9/14 03:09 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	7.3
Nitrogen	0.22	84
Carbon Dioxide	0.022	8.3
Methane	0.00022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-14

Lab ID#: 1406035B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060917**	**Date of Collection: 5/30/14 1:54:00 PM**	
Dil. Factor:	**2.30**	**Date of Analysis: 6/9/14 03:44 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	10
Nitrogen	0.23	83
Carbon Dioxide	0.023	6.6
Methane	0.00023	0.56
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1406035B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/14 09:22 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1406035B-15B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060903c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/14 08:59 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1406035B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/14 08:29 AM**	

Compound	%Recovery	Method Limits
Oxygen	99	85-115
Nitrogen	92	85-115
Carbon Dioxide	99	85-115
Methane	105	85-115
Helium	98	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1406035B-16AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10060924**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/14 07:14 PM**	

Compound	%Recovery	Method Limits
Oxygen	99	85-115
Nitrogen	92	85-115
Carbon Dioxide	99	85-115
Methane	104	85-115
Helium	98	85-115

Container Type: NA - Not Applicable

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Eva Hey
Collected by: (Print and Sign) C. Melancon
Company Stantec Email eva.hey@stantec.com
Address 1340 Treat Blvd. Ste 300 City Walnut Creek State CA Zip 94597
Phone 925-296-2101 Fax 925-941-1401

Project Info:
P.O. #
Project # 1857028748
Project Name Bohannon

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV-1	37302	5-29-14	1014	TO-15 w/naphthalene and ASTM D-1946	28	4		
02A	SV-2	31762		1124		29	4		
03A	SV-3	37405		1202		29	4		
04A	SV-4	13384		1255		30	4		
05A	SV-5	37676		1401		30	4		
06A	SV-6	37362		1445		30	4		
07A	SV-7	1582	5-30-14	720		30	4		
08A	SV-8	37350		827		30	4		
09A	SV-9	1614		915		30	4		
10A	SV-10	36443		1001		30	4		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	5-30-14/1700	EAT	06/03/14 1015
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No None	1406035

Form 1293 rev.11

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Eva Hey
Collected by: (Print and Sign) C. Melancon
Company Stantec Email eva.hey@stantec.com
Address 1340 Treat Blvd. Ste. 300 City Walnut Creek State CA Zip 94597
Phone 925-296-2101 Fax 925-941-1401

Project Info:
P.O. #
Project # 185702878
Project Name Bohannon

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
11A	SV-11	15764	5-30-14	1052	TO-15 w/Napthelene	30	4		
12A	SV-12	37425	↓	1203	and ASTM D-1946	30	4		
13A	SV-13	1636	↓	1257	↓	30	4		
14A	SV-14	1528	↓	1354	↓	20	3		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
5-30-14	EAT 06/03/14 1015
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		NA	Good	Yes No None	1406035

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1/22/2015

Ms. Eva Hey

Stantec Consulting Corporation

1340 Treat Boulevard

Suite 300

Walnut Creek CA 94597

Project Name: Bohannon

Project #: 185702934

Workorder #: 1501104A

Dear Ms. Eva Hey

The following report includes the data for the above referenced project for sample(s) received on 1/9/2015 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1501104A

Work Order Summary

CLIENT:	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597	**BILL TO:**	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597
PHONE:	925-299-9300	**P.O. #**	185702848.200.0002
FAX:	925-299-9302	**PROJECT #**	185702934 Bohannon
DATE RECEIVED:	01/09/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/22/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-16	TO-15	0.7 psi	14.9 psi
02A	SV-18 (S)	TO-15	2.4 "Hg	14.9 psi
03A	SV-19	TO-15	3.3 "Hg	14.5 psi
04A	SV-17	TO-15	3.7 "Hg	14.9 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 01/22/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Stantec Consulting Corporation
Workorder# 1501104A

Four 1 Liter Summa Canister samples were received on January 09, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Despite the use of flow controllers for sample collection, the final canister vacuum for sample SV-16 was measured at under pressure. The pressure reading was confirmed by the laboratory upon sample receipt.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-16

Lab ID#: 1501104A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	3.8	4.3	7.2	8.1
Acetone	9.6	11	23	26

Client Sample ID: SV-18 (S)

Lab ID#: 1501104A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1.1	2.8	3.8	9.8
Cyclohexane	1.1	3.8	3.8	13
Heptane	1.1	2.2	4.5	8.8

Client Sample ID: SV-19

Lab ID#: 1501104A-03A

No Detections Were Found.

Client Sample ID: SV-17

Lab ID#: 1501104A-04A

No Detections Were Found.

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Client Sample ID: SV-16

Lab ID#: 1501104A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011510**	**Date of Collection:**	**1/6/15 8:37:00 AM**
Dil. Factor:	**1.92**	**Date of Analysis:**	**1/15/15 07:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.96	Not Detected	4.7	Not Detected
Freon 114	0.96	Not Detected	6.7	Not Detected
Chloromethane	9.6	Not Detected	20	Not Detected
Vinyl Chloride	0.96	Not Detected	2.4	Not Detected
1,3-Butadiene	0.96	Not Detected	2.1	Not Detected
Bromomethane	9.6	Not Detected	37	Not Detected
Chloroethane	3.8	Not Detected	10	Not Detected
Freon 11	0.96	Not Detected	5.4	Not Detected
Ethanol	3.8	4.3	7.2	8.1
Freon 113	0.96	Not Detected	7.4	Not Detected
1,1-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Acetone	9.6	11	23	26
2-Propanol	3.8	Not Detected	9.4	Not Detected
Carbon Disulfide	3.8	Not Detected	12	Not Detected
3-Chloropropene	3.8	Not Detected	12	Not Detected
Methylene Chloride	9.6	Not Detected	33	Not Detected
Methyl tert-butyl ether	0.96	Not Detected	3.5	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Hexane	0.96	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.8	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Tetrahydrofuran	0.96	Not Detected	2.8	Not Detected
Chloroform	0.96	Not Detected	4.7	Not Detected
1,1,1-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Cyclohexane	0.96	Not Detected	3.3	Not Detected
Carbon Tetrachloride	0.96	Not Detected	6.0	Not Detected
2,2,4-Trimethylpentane	0.96	Not Detected	4.5	Not Detected
Benzene	0.96	Not Detected	3.1	Not Detected
1,2-Dichloroethane	0.96	Not Detected	3.9	Not Detected
Heptane	0.96	Not Detected	3.9	Not Detected
Trichloroethene	0.96	Not Detected	5.2	Not Detected
1,2-Dichloropropane	0.96	Not Detected	4.4	Not Detected
1,4-Dioxane	3.8	Not Detected	14	Not Detected
Bromodichloromethane	0.96	Not Detected	6.4	Not Detected
cis-1,3-Dichloropropene	0.96	Not Detected	4.4	Not Detected
4-Methyl-2-pentanone	0.96	Not Detected	3.9	Not Detected
Toluene	0.96	Not Detected	3.6	Not Detected
trans-1,3-Dichloropropene	0.96	Not Detected	4.4	Not Detected
1,1,2-Trichloroethane	0.96	Not Detected	5.2	Not Detected
Tetrachloroethene	0.96	Not Detected	6.5	Not Detected
2-Hexanone	3.8	Not Detected	16	Not Detected

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Client Sample ID: SV-16

Lab ID#: 1501104A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011510**	**Date of Collection:**	**1/6/15 8:37:00 AM**
Dil. Factor:	**1.92**	**Date of Analysis:**	**1/15/15 07:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.96	Not Detected	8.2	Not Detected
1,2-Dibromoethane (EDB)	0.96	Not Detected	7.4	Not Detected
Chlorobenzene	0.96	Not Detected	4.4	Not Detected
Ethyl Benzene	0.96	Not Detected	4.2	Not Detected
m,p-Xylene	0.96	Not Detected	4.2	Not Detected
o-Xylene	0.96	Not Detected	4.2	Not Detected
Styrene	0.96	Not Detected	4.1	Not Detected
Bromoform	0.96	Not Detected	9.9	Not Detected
Cumene	0.96	Not Detected	4.7	Not Detected
1,1,2,2-Tetrachloroethane	0.96	Not Detected	6.6	Not Detected
Propylbenzene	0.96	Not Detected	4.7	Not Detected
4-Ethyltoluene	0.96	Not Detected	4.7	Not Detected
1,3,5-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,2,4-Trimethylbenzene	0.96	Not Detected	4.7	Not Detected
1,3-Dichlorobenzene	0.96	Not Detected	5.8	Not Detected
1,4-Dichlorobenzene	0.96	Not Detected	5.8	Not Detected
alpha-Chlorotoluene	0.96	Not Detected	5.0	Not Detected
1,2-Dichlorobenzene	0.96	Not Detected	5.8	Not Detected
1,2,4-Trichlorobenzene	3.8	Not Detected	28	Not Detected
Hexachlorobutadiene	3.8	Not Detected	41	Not Detected
Naphthalene	3.8	Not Detected	20	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SV-18 (S)

Lab ID#: 1501104A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011511**	**Date of Collection:**	**1/6/15 9:53:00 AM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**1/15/15 08:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.2	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	Not Detected	26	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	2.8	3.8	9.8
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	3.8	3.8	13
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	2.2	4.5	8.8
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.3	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.4	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected

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Client Sample ID: SV-18 (S)

Lab ID#: 1501104A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011511**	**Date of Collection:**	**1/6/15 9:53:00 AM**
Dil. Factor:	**2.19**	**Date of Analysis:**	**1/15/15 08:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.3	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.5	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	32	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
Naphthalene	4.4	Not Detected	23	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: SV-19

Lab ID#: 1501104A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011512**	**Date of Collection:**	**1/6/15 11:09:00 AM**
Dil. Factor:	**2.23**	**Date of Analysis:**	**1/15/15 09:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.5	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	26	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	4.5	Not Detected	14	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

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Client Sample ID: SV-19

Lab ID#: 1501104A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011512**	**Date of Collection:**	**1/6/15 11:09:00 AM**
Dil. Factor:	**2.23**	**Date of Analysis:**	**1/15/15 09:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Naphthalene	4.5	Not Detected	23	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SV-17

Lab ID#: 1501104A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011513**	**Date of Collection:**	**1/6/15 12:23:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/15/15 10:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected

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Client Sample ID: SV-17

Lab ID#: 1501104A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011513**	**Date of Collection:**	**1/6/15 12:23:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**1/15/15 10:11 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	4.6	Not Detected	24	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1501104A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1501104A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 01:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 1501104A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 10:54 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	87
Chloromethane	80
Vinyl Chloride	82
1,3-Butadiene	90
Bromomethane	86
Chloroethane	90
Freon 11	86
Ethanol	92
Freon 113	89
1,1-Dichloroethene	89
Acetone	85
2-Propanol	94
Carbon Disulfide	91
3-Chloropropene	94
Methylene Chloride	85
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	88
Hexane	88
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	88
Tetrahydrofuran	90
Chloroform	87
1,1,1-Trichloroethane	86
Cyclohexane	90
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	88
Benzene	89
1,2-Dichloroethane	86
Heptane	90
Trichloroethene	93
1,2-Dichloropropane	89
1,4-Dioxane	99
Bromodichloromethane	89
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	97
Toluene	93
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	95
Tetrachloroethene	94
2-Hexanone	106

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Client Sample ID: CCV

Lab ID#: 1501104A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 10:54 AM**	

Compound	%Recovery
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	98
Chlorobenzene	93
Ethyl Benzene	96
m,p-Xylene	97
o-Xylene	96
Styrene	102
Bromoform	96
Cumene	95
1,1,2,2-Tetrachloroethane	94
Propylbenzene	99
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	75
Hexachlorobutadiene	90
Naphthalene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: LCS

Lab ID#: 1501104A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 11:32 AM**	

Compound	%Recovery	Method Limits
Freon 12	78	70-130
Freon 114	81	70-130
Chloromethane	73	70-130
Vinyl Chloride	77	70-130
1,3-Butadiene	79	70-130
Bromomethane	78	70-130
Chloroethane	83	70-130
Freon 11	78	70-130
Ethanol	100	70-130
Freon 113	86	70-130
1,1-Dichloroethene	87	70-130
Acetone	75	70-130
2-Propanol	91	70-130
Carbon Disulfide	75	70-130
3-Chloropropene	81	70-130
Methylene Chloride	81	70-130
Methyl tert-butyl ether	80	70-130
trans-1,2-Dichloroethene	77	70-130
Hexane	80	70-130
1,1-Dichloroethane	79	70-130
2-Butanone (Methyl Ethyl Ketone)	82	70-130
cis-1,2-Dichloroethene	83	70-130
Tetrahydrofuran	82	70-130
Chloroform	80	70-130
1,1,1-Trichloroethane	80	70-130
Cyclohexane	84	70-130
Carbon Tetrachloride	82	70-130
2,2,4-Trimethylpentane	82	70-130
Benzene	81	70-130
1,2-Dichloroethane	78	70-130
Heptane	83	70-130
Trichloroethene	85	70-130
1,2-Dichloropropane	81	70-130
1,4-Dioxane	93	70-130
Bromodichloromethane	82	70-130
cis-1,3-Dichloropropene	91	70-130
4-Methyl-2-pentanone	89	70-130
Toluene	83	70-130
trans-1,3-Dichloropropene	85	70-130
1,1,2-Trichloroethane	85	70-130
Tetrachloroethene	84	70-130
2-Hexanone	99	70-130

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Client Sample ID: LCS

Lab ID#: 1501104A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 11:32 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	86	70-130
1,2-Dibromoethane (EDB)	86	70-130
Chlorobenzene	83	70-130
Ethyl Benzene	88	70-130
m,p-Xylene	90	70-130
o-Xylene	87	70-130
Styrene	101	70-130
Bromoform	89	70-130
Cumene	87	70-130
1,1,2,2-Tetrachloroethane	84	70-130
Propylbenzene	91	70-130
4-Ethyltoluene	94	70-130
1,3,5-Trimethylbenzene	96	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	87	70-130
alpha-Chlorotoluene	163 Q	70-130
1,2-Dichlorobenzene	95	70-130
1,2,4-Trichlorobenzene	100	70-130
Hexachlorobutadiene	110	70-130
Naphthalene	58 Q	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1501104A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 12:03 PM**	

Compound	%Recovery	Method Limits
Freon 12	77	70-130
Freon 114	81	70-130
Chloromethane	73	70-130
Vinyl Chloride	76	70-130
1,3-Butadiene	80	70-130
Bromomethane	79	70-130
Chloroethane	84	70-130
Freon 11	78	70-130
Ethanol	99	70-130
Freon 113	86	70-130
1,1-Dichloroethene	86	70-130
Acetone	76	70-130
2-Propanol	91	70-130
Carbon Disulfide	75	70-130
3-Chloropropene	81	70-130
Methylene Chloride	81	70-130
Methyl tert-butyl ether	80	70-130
trans-1,2-Dichloroethene	77	70-130
Hexane	80	70-130
1,1-Dichloroethane	79	70-130
2-Butanone (Methyl Ethyl Ketone)	84	70-130
cis-1,2-Dichloroethene	83	70-130
Tetrahydrofuran	82	70-130
Chloroform	80	70-130
1,1,1-Trichloroethane	78	70-130
Cyclohexane	84	70-130
Carbon Tetrachloride	82	70-130
2,2,4-Trimethylpentane	82	70-130
Benzene	82	70-130
1,2-Dichloroethane	78	70-130
Heptane	84	70-130
Trichloroethene	86	70-130
1,2-Dichloropropane	82	70-130
1,4-Dioxane	93	70-130
Bromodichloromethane	80	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	83	70-130
trans-1,3-Dichloropropene	82	70-130
1,1,2-Trichloroethane	81	70-130
Tetrachloroethene	81	70-130
2-Hexanone	95	70-130

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Client Sample ID: LCSD

Lab ID#: 1501104A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2011504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/15/15 12:03 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	81	70-130
1,2-Dibromoethane (EDB)	84	70-130
Chlorobenzene	81	70-130
Ethyl Benzene	86	70-130
m,p-Xylene	88	70-130
o-Xylene	86	70-130
Styrene	99	70-130
Bromoform	86	70-130
Cumene	86	70-130
1,1,2,2-Tetrachloroethane	82	70-130
Propylbenzene	90	70-130
4-Ethyltoluene	91	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	95	70-130
1,4-Dichlorobenzene	86	70-130
alpha-Chlorotoluene	162 Q	70-130
1,2-Dichlorobenzene	93	70-130
1,2,4-Trichlorobenzene	101	70-130
Hexachlorobutadiene	110	70-130
Naphthalene	58 Q	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	104	70-130

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Eva Hey
Collected by: (Print and Sign) C. Melancon
Company Stantec Email eva.hey@stantec.com
Address 1340 Treat Blvd. Ste 300 City Walnut Creek State CA Zip 94597
Phone 925-296-2101 Fax

Project Info:
P.O. #
Project # 185702934
Project Name Bohannon

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV-16	30391	1-6-15	837	TO-15 w/Naphthalene and ASTM D-1946	30	0.5		
02A	SV-18(S)	30910	↓	953	↓	↓	4		
03A	SV-19	3698	↓	1109	↓	↓	↓		
04A	SV-17	12563	↓	1223	↓	↓	↓		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	1-6-15/1500		1-9-15 1015
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only

Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
FedEx		NA	Good	Yes No None	1501104

Form 1293 rev.11

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1/22/2015
Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek CA 94597

Project Name: Bohannon
Project #: 185702934
Workorder #: 1501104B

Dear Ms. Eva Hey

The following report includes the data for the above referenced project for sample(s) received on 1/9/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1501104B

Work Order Summary

CLIENT:	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597	**BILL TO:**	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597
PHONE:	925-299-9300	**P.O. #**	185702848.200.0002
FAX:	925-299-9302	**PROJECT #**	185702934 Bohannon
DATE RECEIVED:	01/09/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/22/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-16	Modified ASTM D-1946	0.7 psi	14.9 psi
02A	SV-18 (S)	Modified ASTM D-1946	2.4 "Hg	14.9 psi
03A	SV-19	Modified ASTM D-1946	3.3 "Hg	14.5 psi
04A	SV-17	Modified ASTM D-1946	3.7 "Hg	14.9 psi
05A	Lab Blank	Modified ASTM D-1946	NA	NA
05B	Lab Blank	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA
06AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 01/22/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Stantec Consulting Corporation
Workorder# 1501104B

Four 1 Liter Summa Canister samples were received on January 09, 2015. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: SV-16

Lab ID#: 1501104B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	15
Nitrogen	0.19	82
Carbon Dioxide	0.019	3.1

Client Sample ID: SV-18 (S)

Lab ID#: 1501104B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	15
Nitrogen	0.22	79
Carbon Dioxide	0.022	5.3
Methane	0.00022	0.00049
Helium	0.11	0.21

Client Sample ID: SV-19

Lab ID#: 1501104B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	11
Nitrogen	0.22	82
Carbon Dioxide	0.022	6.7

Client Sample ID: SV-17

Lab ID#: 1501104B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	18
Nitrogen	0.23	78
Carbon Dioxide	0.023	3.7

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Client Sample ID: SV-16

Lab ID#: 1501104B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011408**	**Date of Collection: 1/6/15 8:37:00 AM**	
Dil. Factor:	**1.92**	**Date of Analysis: 1/14/15 01:02 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.19	15
Nitrogen	0.19	82
Carbon Dioxide	0.019	3.1
Methane	0.00019	Not Detected
Helium	0.096	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-18 (S)

Lab ID#: 1501104B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011409**	**Date of Collection: 1/6/15 9:53:00 AM**	
Dil. Factor:	**2.19**	**Date of Analysis: 1/14/15 01:26 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	15
Nitrogen	0.22	79
Carbon Dioxide	0.022	5.3
Methane	0.00022	0.00049
Helium	0.11	0.21

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-19

Lab ID#: 1501104B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011410**	**Date of Collection: 1/6/15 11:09:00 AM**	
Dil. Factor:	**2.23**	**Date of Analysis: 1/14/15 01:59 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	11
Nitrogen	0.22	82
Carbon Dioxide	0.022	6.7
Methane	0.00022	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SV-17

Lab ID#: 1501104B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011411**	**Date of Collection: 1/6/15 12:23:00 PM**	
Dil. Factor:	**2.29**	**Date of Analysis: 1/14/15 02:36 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.23	18
Nitrogen	0.23	78
Carbon Dioxide	0.023	3.7
Methane	0.00023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1501104B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/14/15 12:06 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1501104B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011406b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/14/15 11:30 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1501104B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/14/15 09:21 AM**	

Compound	%Recovery	Method Limits
Oxygen	90	85-115
Nitrogen	95	85-115
Carbon Dioxide	94	85-115
Methane	88	85-115
Helium	93	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1501104B-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9011404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/14/15 10:18 AM**	

Compound	%Recovery	Method Limits
Oxygen	90	85-115
Nitrogen	95	85-115
Carbon Dioxide	94	85-115
Methane	88	85-115
Helium	93	85-115

Container Type: NA - Not Applicable

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Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

In accordance with your company's contract, this account is required to have a PO that is fully executed by both parties which also covers the cost of the workorder before any data can be released. Please ensure that you have given all appropriate information to our Project Manager so that there will be no delay in reporting of the data you are requesting.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

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SAMPLE RECEIPT SUMMARY

WORKORDER 1501104A

Client

Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek, CA 94597

Phone

925-299-9300

Fax

925-299-9302

Sales Rep: N/A

Date Promised: 01/22/15
Date Completed:
Date Received: 1/9/15
PO#: 185702848.200.0002
Project#: 185702934 Bohannon

Total $: $ 674.00
Logged By: DM

Fraction	Sample #	Analysis	Collected	Amount$
01A	SV-16	TO-15	1/6/2015	$125.00
02A	SV-18 (S)	TO-15	1/6/2015	$125.00
03A	SV-19	TO-15	1/6/2015	$125.00
04A	SV-17	TO-15	1/6/2015	$125.00

Misc. Charges	1 Liter Summa Canister (6) @ $15.00 each., Shipment 98932	$90.00
	Blue Body Flow Controller (6) @ $10.00 each., Shipment 98932	$60.00
	Fitting w/ Pink Ferrule (6) @ $4.00 each.	$24.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Bohannan Project/19349

BILL TO: Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek, CA 94597

Analysis Code: TO-14A

TERMS:

Reporting Method: TO-15 + Naph

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SAMPLE RECEIPT SUMMARY

WORKORDER 1501104B

Client

Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek, CA 94597

Phone

925-299-9300

Fax

925-299-9302

Sales Rep: N/A

Date Promised: 01/22/15
Date Completed:
Date Received: 1/9/15
PO#: 185702848.200.0002
Project#: 185702934 Bohannon

Total $: $ 500.00
Logged By: DM

Fraction	Sample #	Analysis	Collected	Amount$
01A	SV-16	Modified ASTM D-1946	1/6/2015	$125.00
02A	SV-18 (S)	Modified ASTM D-1946	1/6/2015	$125.00
03A	SV-19	Modified ASTM D-1946	1/6/2015	$125.00
04A	SV-17	Modified ASTM D-1946	1/6/2015	$125.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Bohannan Project/19349

BILL TO: Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek, CA 94597

Analysis Code: ASTM

TERMS: NET 90

Reporting Method: Modified ASTM D-1946 (Sh)-CH4, CO2, He, N2 & O2

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Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Eva Hey

Collected by: (Print and Sign) C. Melancon

Company Stantec Email eva.hey@stantec.com

Address 1340 Treat Blvd. Suite 300 City Walnut Creek State CA Zip 94597

Phone 925-296-2101 Fax

Project Info:

P.O. #

Project # 185702934

Project Name Bohannon

Turn Around Time:

☒ Normal

☐ Rush

specify

Lab Use Only

Pressurized by:

Date:

Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV-16	30391	1-6-15	837	TO-15 w/Napthalene and ASTM D-1946	30	0.5		
02A	SV-18(B)	30910	↓	953	↓	↓	4		
03A	SV-19	3698		1109	↓		↓		
04A	SV-17	IL1563	↓	1223	↓	↓	↓		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	1-6-15 / 1500	GATC	1-9-15 1015
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No None	1501104

Form 1293 rev.11

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Method : TO-15 + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.50
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	5.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	2.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	2.0
75-09-2	Methylene Chloride	5.0
1634-04-4	Methyl tert-butyl ether	0.50
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.50
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.50
107-06-2	1,2-Dichloroethane	0.50
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	2.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.50

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Method : TO-15 + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.50
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.50
108-38-3	m,p-Xylene	0.50
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0
91-20-3	Naphthalene	2.0

CAS Number	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Method : Modified ASTM D-1946 (Sh)-CH4, CO2, He, N2 & O2

CAS Number	Compound	Rpt. Limit (%)
7782-44-7	Oxygen	0.10
7727-37-9	Nitrogen	0.10
124-38-9	Carbon Dioxide	0.010
74-82-8	Methane	0.00010
7440-59-7	Helium	0.050

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Unreturned Media/Equipment

The following media/equipment are outstanding:

Shipped on: Nov 18 2014 3:36PM

Equipment Type	Physical ID	Outstanding Qty	Amount
Gauge-Vacuum		3	$150.00

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:60 A.M to 5:30 P.M. PST

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1/20/2015
Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek CA 94597

Project Name: Bohannon
Project #: 185702934
Workorder #: 1501041

Dear Ms. Eva Hey

The following report includes the data for the above referenced project for sample(s) received on 1/7/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 VI are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1501041

Work Order Summary

CLIENT:	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597	**BILL TO:**	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597
PHONE:	925-299-9300	**P.O. #**	185702848.200.0002
FAX:	925-299-9302	**PROJECT #**	185702934 Bohannon
DATE RECEIVED:	01/07/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	01/20/2015		

FRACTION #	NAME	TEST
01A	SV-16	Modified TO-17 VI
02A	SV-18	Modified TO-17 VI
03A	SV-19	Modified TO-17 VI
04A	SV-17	Modified TO-17 VI
05A	Lab Blank	Modified TO-17 VI
05B	Lab Blank	Modified TO-17 VI
06A	CCV	Modified TO-17 VI
06B	CCV	Modified TO-17 VI
07A	LCS	Modified TO-17 VI
07AA	LCSD	Modified TO-17 VI
07B	LCS	Modified TO-17 VI
07BB	LCSD	Modified TO-17 VI

CERTIFIED BY: Heidi Mayo DATE: 01/20/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified EPA Method TO-17 (VI Tubes)
Stantec Consulting Corporation
Workorder# 1501041

Four TO-17 VI Tube samples were received on January 07, 2015. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 'VI' sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for compound separation and detection.

A modification that may be applied to EPA Method TO-17 at the client's discretion is the requirement to transport sorbent tubes at 4 deg C. Laboratory studies demonstrate a high level of stability for VOCs on the TO-17 'VI' tube at room temperature for periods of up to 14 days. Tubes can be shipped to and from the field site at ambient conditions as long as the 14-day sample hold time is upheld. Trip blanks and field surrogate spikes are used as additional control measures to monitor recovery and background contribution during tube transport.

Since the TO-17 VI application significantly extends the scope of target compounds addressed in EPA Method TO-15 and TO-17, the laboratory has implemented several method modifications outlined in the table below. Specific project requirements may over-ride the laboratory modifications.

Requirement	***TO-17***	***ATL Modifications***
Initial Calibration	%RSD</=30% with 2 allowed out up to 40%	VOC list: %RSD</=30% with 2 allowed out up to 40% SVOC list: %RSD</=30% with 2 allowed out up to 40%
Daily Calibration	%D for each target compound within +/-30%.	Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene within +/-40%D
Audit Accuracy	70-130%	Second source recovery limits for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene = 60-140%.
Distributed Volume Pairs	Collection of distributed volume pairs required for monitoring ambient air to insure high quality.	If the client is sampling well characterized air or has verified performance through previous sampling or distributed pairs, single tube sampling may be appropriate. Distributed volume pairs may not be practical or useful for soil vapor collection due to
Analytical Precision	</=20% RPD	<30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.

Receiving Notes

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

Analytical Notes

A sampling volume of 0.200 L was used to convert ng to ug/m3 for the associated Lab Blank.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in blank (subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-17

Client Sample ID: SV-16

Lab ID#: 1501041-01A

No Detections Were Found.

Client Sample ID: SV-18

Lab ID#: 1501041-02A

No Detections Were Found.

Client Sample ID: SV-19

Lab ID#: 1501041-03A

No Detections Were Found.

Client Sample ID: SV-17

Lab ID#: 1501041-04A

No Detections Were Found.

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Client Sample ID: SV-16
Lab ID#: 1501041-01A
EPA METHOD TO-17

File Name:	**6010928**	**Date of Extraction: NA**	**Date of Collection: 1/6/15 9:00:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 05:52 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	87	50-150

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Client Sample ID: SV-18
Lab ID#: 1501041-02A
EPA METHOD TO-17

File Name:	**6010929**	**Date of Extraction: NA**	**Date of Collection: 1/6/15 10:10:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 06:29 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	79	50-150

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Client Sample ID: SV-19
Lab ID#: 1501041-03A
EPA METHOD TO-17

File Name:	**6010930**	**Date of Extraction: NA**	**Date of Collection: 1/6/15 11:32:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 07:06 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	115	50-150

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Client Sample ID: SV-17
Lab ID#: 1501041-04A
EPA METHOD TO-17

File Name:	**6011314**	**Date of Extraction: NA**	**Date of Collection: 1/6/15 12:38:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 1/13/15 12:02 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	101	50-150

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Client Sample ID: Lab Blank

Lab ID#: 1501041-05A

EPA METHOD TO-17

File Name:	**6010921**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 12:09 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	121	50-150

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Client Sample ID: Lab Blank

Lab ID#: 1501041-05B

EPA METHOD TO-17

File Name:	**6011313**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/13/15 10:07 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	94	50-150

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Client Sample ID: CCV
Lab ID#: 1501041-06A
EPA METHOD TO-17

File Name:	**6010920a**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 11:32 AM**

Compound	%Recovery
Naphthalene	86

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	131	50-150

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Client Sample ID: CCV
Lab ID#: 1501041-06B
EPA METHOD TO-17

File Name:	**6011307a**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/12/15 09:17 PM**

Compound	%Recovery
Naphthalene	74

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	87	50-150

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Client Sample ID: LCS
Lab ID#: 1501041-07A
EPA METHOD TO-17

File Name:	**6010915**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 02:06 AM**

Compound	%Recovery	Method Limits
Naphthalene	74	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	100	50-150

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Client Sample ID: LCSD
Lab ID#: 1501041-07AA
EPA METHOD TO-17

File Name:	**6010916**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/9/15 02:45 AM**

Compound	%Recovery	Method Limits
Naphthalene	74	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	102	50-150

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Client Sample ID: LCS
Lab ID#: 1501041-07B
EPA METHOD TO-17

File Name:	**6011312**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/13/15 09:30 AM**

Compound	%Recovery	Method Limits
Naphthalene	70	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	96	50-150

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Client Sample ID: LCSD
Lab ID#: 1501041-07BB
EPA METHOD TO-17

File Name:	**6011309**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 1/12/15 10:29 PM**

Compound	%Recovery	Method Limits
Naphthalene	68 Q	70-130

Air Sample Volume(L): 1.00
Q = Exceeds Quality Control limits.
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	88	50-150

TO-17 SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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FOLSOM, CA 95630
(916) 985-1000 FAX (916) 985-1020

Project Manager Eva Hey
Collected by: (Print and Sign) C. Melancon
Company Stantec Email eva.hey@stantec.com
Address 1340 Treat Blvd. ste 300 City Walnut Creek State CA Zip 94597
Phone 925-296-2101 Fax

Project Info:
P.O. #
Project # 185702934
Project Name Bohannon

Turn Around Time:
☒ Normal
☐ Rush
specify

Reporting Units:
☐ ppmv
☐ ppbv
☐ µg/m3
☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Engraved or Stamped Tube #	Date of Collection (mm/dd/yy)	Start Time (hr:min)	End Time (hr:min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume ml	Indoor/Outdoor % RH	Indoor/Outdoor Temp	Indoor Air	Outdoor Air	Soil Vapor	Other ( )
01A	SV-16	60132052	01/06/15	850	900	20 ml/min	20 ml/min	200		65	☐	☐	☒	☐
02A	SV-18	60149175	↓	1000	1010	↓	↓	↓		↓	☐	☐	☒	☐
03A	SV-19	60135607		1122	1132						☐	☐	☒	☐
04A	SV-17	60147093	↓	1228	1238	↓	↓	↓		↓	☐	☐	☒	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	1-6-15/1500	Scott	1-7-15 0930
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		7.8°C	SOR	Yes No (None)	1501041


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 266411
ANALYTICAL REPORT

Stantec	Project : 185702934
1340 Treat Blvd.	Location : Bohannon
Walnut Creek, CA 94597	Level : II

Sample ID	Lab ID
SV-18S	266411-001
SV-16	266411-002
SV-19	266411-003
SV-14	266411-004
SV-10	266411-005
SV-4	266411-006
SV-7	266411-007
SV-15	266411-008
SV-2	266411-009
SV-13	266411-010

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 05/06/2015

Mike Dahlquist
Project Manager
mike.dahlquist@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**266411**
Client:	**Stantec**
Project:	**185702934**
Location:	**Bohannon**
Request Date:	**04/29/15**
Samples Received:	**04/29/15**

This data package contains sample and QC results for ten air samples, requested for the above referenced project on 04/29/15. The samples were received cold and intact.

Volatile Organics in Air by MS (EPA TO-15):

High response was observed for naphthalene in the CCV analyzed 04/29/15 13:18; affected data was qualified with "b". High response was observed for naphthalene in the CCV analyzed 05/04/15 13:16; affected data was qualified with "b". High response was observed for 2-hexanone in the CCV analyzed 04/30/15 16:20; affected data was qualified with "b". High recoveries were observed for naphthalene and 1,2,4-trichlorobenzene in the BS/BSD for batch 222697; the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples. High recoveries were observed for 2-hexanone in the BS/BSD for batch 222770; the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated sample. High recovery was observed for naphthalene in the BSD for batch 222787; the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated sample. High recoveries were observed for naphthalene in the BS/BSD for batch 222833; the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. A number of samples were diluted due to high non-target analytes. No other analytical problems were encountered.

Volatile Organics in Air GC (ASTM D1946):

No analytical problems were encountered.

CHAIN OF CUSTODY

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2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody #

C&T LOGIN # 266411

Project No: 185702934
Project Name: Bohannon
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☒ Standard

Sampler: Charles Melancon
Report To: Eva Hey
Company: Stantec
Telephone: 925-296-2101
Email: eva.hey@stantec.com

Lab No.	Sample ID.	SAMPLING		MATRIX			# of Containers	CHEMICAL PRESERVATIVE					ANALYTICAL REQUEST				Initial Vacuum	Final Vacuum
		Date Collected	Time Collected	Water	Solid	Air		HCl	H2SO4	HNO3	NaOH	None	VOCs+Naphthalene by TO-15		Helium, oxygen, nitrogen, Methane, & CO2 by ASTM D-1946			
1	SV-18S (can# 422)	4-28-15	1006			X	1					X	X		X		30	5
2	SV-16 (can# 299)		1048				1										30	5
3	SV-19 (can# 151)		1114				1										30	5
4	SV-14 (can# 60)		1209				1										30	5
5	SV-10 (can# 127)		1300				1										30	5
6	SV-4 (can# 283)		1337				1										30	5
7	SV-7 (can# 243)		1422				1										30	5
8	SV-15 (can# 78)	4-29-15	754				1										30	5
9	SV-2 (can# 241)		825				1										30	5
10	SV-13 (can# 341)		847				1										30	5

Notes:

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE 4-29-15 TIME: 1125
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 4/29/15 TIME: 1125
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 26641 Date Received 4/29/15 Number of coolers 0
Client Stantec Project Bohannon

Date Opened 4/29/15 By (print) AA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
   Shipping info
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☑ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☑ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☑ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☑ None Temp(°C)

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? YES NO (N/A)
17. Did you document your preservative check? YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)
21. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 266411

Results for any subcontracted analyses are not included in this summary.

Client : Stantec
Project : 185702934
Location : Bohannon

Client Sample ID : SV-18S Laboratory Sample ID : 266411-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
n-Hexane	360		7.2	ppbv	As Recd	14.46	EPA TO-15	METHOD
Cyclohexane	160		7.2	ppbv	As Recd	14.46	EPA TO-15	METHOD
n-Heptane	85		7.2	ppbv	As Recd	14.46	EPA TO-15	METHOD
Carbon Dioxide	64,000		2,400	ppmv	As Recd	2.410	ASTM D1946	METHOD
Oxygen	120,000		2,400	ppmv	As Recd	2.410	ASTM D1946	METHOD

Client Sample ID : SV-16 Laboratory Sample ID : 266411-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Carbon Dioxide	59,000		2,000	ppmv	As Recd	2.030	ASTM D1946	METHOD
Oxygen	120,000		2,000	ppmv	As Recd	2.030	ASTM D1946	METHOD

Client Sample ID : SV-19 Laboratory Sample ID : 266411-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Carbon Dioxide	79,000		2,200	ppmv	As Recd	2.160	ASTM D1946	METHOD
Oxygen	90,000		2,200	ppmv	As Recd	2.160	ASTM D1946	METHOD

Client Sample ID : SV-14 Laboratory Sample ID : 266411-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
n-Hexane	4,200		120	ppbv	As Recd	249.6	EPA TO-15	METHOD
n-Heptane	2,200		120	ppbv	As Recd	249.6	EPA TO-15	METHOD
Carbon Dioxide	100,000		2,100	ppmv	As Recd	2.080	ASTM D1946	METHOD
Oxygen	12,000		2,100	ppmv	As Recd	2.080	ASTM D1946	METHOD
Methane	5,500		2,100	ppmv	As Recd	2.080	ASTM D1946	METHOD

Client Sample ID : SV-10 Laboratory Sample ID : 266411-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
n-Hexane	8,000		110	ppbv	As Recd	210.0	EPA TO-15	METHOD
Benzene	350		110	ppbv	As Recd	210.0	EPA TO-15	METHOD
n-Heptane	3,500		110	ppbv	As Recd	210.0	EPA TO-15	METHOD
Tetrachloroethene	120		110	ppbv	As Recd	210.0	EPA TO-15	METHOD
Carbon Dioxide	130,000		2,100	ppmv	As Recd	2.100	ASTM D1946	METHOD
Oxygen	11,000		2,100	ppmv	As Recd	2.100	ASTM D1946	METHOD
Methane	10,000		2,100	ppmv	As Recd	2.100	ASTM D1946	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : SV-4 Laboratory Sample ID : 266411-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Carbon Dioxide	150,000		2,200	ppmv	As Recd	2.170	ASTM D1946	METHOD
Oxygen	20,000		2,200	ppmv	As Recd	2.170	ASTM D1946	METHOD

Client Sample ID : SV-7 Laboratory Sample ID : 266411-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Carbon Dioxide	85,000		2,100	ppmv	As Recd	2.110	ASTM D1946	METHOD
Oxygen	71,000		2,100	ppmv	As Recd	2.110	ASTM D1946	METHOD

Client Sample ID : SV-15 Laboratory Sample ID : 266411-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Carbon Dioxide	18,000		1,900	ppmv	As Recd	1.940	ASTM D1946	METHOD
Oxygen	150,000		1,900	ppmv	As Recd	1.940	ASTM D1946	METHOD

Client Sample ID : SV-2 Laboratory Sample ID : 266411-009

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Tetrachloroethene	4.5		0.97	ppbv	As Recd	1.930	EPA TO-15	METHOD
Carbon Dioxide	56,000		1,900	ppmv	As Recd	1.930	ASTM D1946	METHOD
Oxygen	88,000		1,900	ppmv	As Recd	1.930	ASTM D1946	METHOD

Client Sample ID : SV-13 Laboratory Sample ID : 266411-010

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Freon 12	2.2		1.0	ppbv	As Recd	2.030	EPA TO-15	METHOD
Carbon Dioxide	77,000		2,000	ppmv	As Recd	2.030	ASTM D1946	METHOD
Oxygen	50,000		2,000	ppmv	As Recd	2.030	ASTM D1946	METHOD

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-18S	Diln Fac:	14.46
Lab ID:	266411-001	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	7.2	ND	36
Freon 114	ND	7.2	ND	51
Chloromethane	ND	7.2	ND	15
Vinyl Chloride	ND	7.2	ND	18
1,3-Butadiene	ND	7.2	ND	16
Bromomethane	ND	7.2	ND	28
Chloroethane	ND	7.2	ND	19
Trichlorofluoromethane	ND	7.2	ND	41
Acrolein	ND	29	ND	66
1,1-Dichloroethene	ND	7.2	ND	29
Freon 113	ND	7.2	ND	55
Acetone	ND	29	ND	69
Carbon Disulfide	ND	7.2	ND	23
Isopropanol	ND	29	ND	71
Methylene Chloride	ND	7.2	ND	25
trans-1,2-Dichloroethene	ND	7.2	ND	29
MTBE	ND	7.2	ND	26
n-Hexane	360	7.2	1,300	25
1,1-Dichloroethane	ND	7.2	ND	29
Vinyl Acetate	ND	7.2	ND	25
cis-1,2-Dichloroethene	ND	7.2	ND	29
2-Butanone	ND	7.2	ND	21
Ethyl Acetate	ND	7.2	ND	26
Tetrahydrofuran	ND	7.2	ND	21
Chloroform	ND	7.2	ND	35
1,1,1-Trichloroethane	ND	7.2	ND	39
Cyclohexane	160	7.2	550	25
Carbon Tetrachloride	ND	7.2	ND	45
Benzene	ND	7.2	ND	23
1,2-Dichloroethane	ND	7.2	ND	29
n-Heptane	85	7.2	350	30
Trichloroethene	ND	7.2	ND	39
1,2-Dichloropropane	ND	7.2	ND	33
Bromodichloromethane	ND	7.2	ND	48
cis-1,3-Dichloropropene	ND	7.2	ND	33

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-18S	Diln Fac:	14.46
Lab ID:	266411-001	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	7.2	ND	30
Toluene	ND	7.2	ND	27
trans-1,3-Dichloropropene	ND	7.2	ND	33
1,1,2-Trichloroethane	ND	7.2	ND	39
Tetrachloroethene	ND	7.2	ND	49
2-Hexanone	ND	7.2	ND	30
Dibromochloromethane	ND	7.2	ND	62
1,2-Dibromoethane	ND	7.2	ND	56
Chlorobenzene	ND	7.2	ND	33
Ethylbenzene	ND	7.2	ND	31
m,p-Xylenes	ND	7.2	ND	31
o-Xylene	ND	7.2	ND	31
Styrene	ND	7.2	ND	31
Bromoform	ND	7.2	ND	75
1,1,2,2-Tetrachloroethane	ND	7.2	ND	50
4-Ethyltoluene	ND	7.2	ND	36
1,3,5-Trimethylbenzene	ND	7.2	ND	36
1,2,4-Trimethylbenzene	ND	7.2	ND	36
1,3-Dichlorobenzene	ND	7.2	ND	43
1,4-Dichlorobenzene	ND	7.2	ND	43
Benzyl chloride	ND	7.2	ND	37
1,2-Dichlorobenzene	ND	7.2	ND	43
1,2,4-Trichlorobenzene	ND	7.2	ND	54
Hexachlorobutadiene	ND	7.2	ND	77
Naphthalene	ND	29	ND	150

Surrogate	%REC	Limits
Bromofluorobenzene	98	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-16	Diln Fac:	2.030
Lab ID:	266411-002	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	1.0	ND	5.0
Freon 114	ND	1.0	ND	7.1
Chloromethane	ND	1.0	ND	2.1
Vinyl Chloride	ND	1.0	ND	2.6
1,3-Butadiene	ND	1.0	ND	2.2
Bromomethane	ND	1.0	ND	3.9
Chloroethane	ND	1.0	ND	2.7
Trichlorofluoromethane	ND	1.0	ND	5.7
Acrolein	ND	4.1	ND	9.3
1,1-Dichloroethene	ND	1.0	ND	4.0
Freon 113	ND	1.0	ND	7.8
Acetone	ND	4.1	ND	9.6
Carbon Disulfide	ND	1.0	ND	3.2
Isopropanol	ND	4.1	ND	10
Methylene Chloride	ND	1.0	ND	3.5
trans-1,2-Dichloroethene	ND	1.0	ND	4.0
MTBE	ND	1.0	ND	3.7
n-Hexane	ND	1.0	ND	3.6
1,1-Dichloroethane	ND	1.0	ND	4.1
Vinyl Acetate	ND	1.0	ND	3.6
cis-1,2-Dichloroethene	ND	1.0	ND	4.0
2-Butanone	ND	1.0	ND	3.0
Ethyl Acetate	ND	1.0	ND	3.7
Tetrahydrofuran	ND	1.0	ND	3.0
Chloroform	ND	1.0	ND	5.0
1,1,1-Trichloroethane	ND	1.0	ND	5.5
Cyclohexane	ND	1.0	ND	3.5
Carbon Tetrachloride	ND	1.0	ND	6.4
Benzene	ND	1.0	ND	3.2
1,2-Dichloroethane	ND	1.0	ND	4.1
n-Heptane	ND	1.0	ND	4.2
Trichloroethene	ND	1.0	ND	5.5
1,2-Dichloropropane	ND	1.0	ND	4.7
Bromodichloromethane	ND	1.0	ND	6.8
cis-1,3-Dichloropropene	ND	1.0	ND	4.6

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-16	Diln Fac:	2.030
Lab ID:	266411-002	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	1.0	ND	4.2
Toluene	ND	1.0	ND	3.8
trans-1,3-Dichloropropene	ND	1.0	ND	4.6
1,1,2-Trichloroethane	ND	1.0	ND	5.5
Tetrachloroethene	ND	1.0	ND	6.9
2-Hexanone	ND	1.0	ND	4.2
Dibromochloromethane	ND	1.0	ND	8.6
1,2-Dibromoethane	ND	1.0	ND	7.8
Chlorobenzene	ND	1.0	ND	4.7
Ethylbenzene	ND	1.0	ND	4.4
m,p-Xylenes	ND	1.0	ND	4.4
o-Xylene	ND	1.0	ND	4.4
Styrene	ND	1.0	ND	4.3
Bromoform	ND	1.0	ND	10
1,1,2,2-Tetrachloroethane	ND	1.0	ND	7.0
4-Ethyltoluene	ND	1.0	ND	5.0
1,3,5-Trimethylbenzene	ND	1.0	ND	5.0
1,2,4-Trimethylbenzene	ND	1.0	ND	5.0
1,3-Dichlorobenzene	ND	1.0	ND	6.1
1,4-Dichlorobenzene	ND	1.0	ND	6.1
Benzyl chloride	ND	1.0	ND	5.3
1,2-Dichlorobenzene	ND	1.0	ND	6.1
1,2,4-Trichlorobenzene	ND	1.0	ND	7.5
Hexachlorobutadiene	ND	1.0	ND	11
Naphthalene	ND	4.1	ND	21

Surrogate	%REC	Limits
Bromofluorobenzene	101	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-19	Diln Fac:	2.160
Lab ID:	266411-003	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	1.1	ND	5.3
Freon 114	ND	1.1	ND	7.5
Chloromethane	ND	1.1	ND	2.2
Vinyl Chloride	ND	1.1	ND	2.8
1,3-Butadiene	ND	1.1	ND	2.4
Bromomethane	ND	1.1	ND	4.2
Chloroethane	ND	1.1	ND	2.8
Trichlorofluoromethane	ND	1.1	ND	6.1
Acrolein	ND	4.3	ND	9.9
1,1-Dichloroethene	ND	1.1	ND	4.3
Freon 113	ND	1.1	ND	8.3
Acetone	ND	4.3	ND	10
Carbon Disulfide	ND	1.1	ND	3.4
Isopropanol	ND	4.3	ND	11
Methylene Chloride	ND	1.1	ND	3.8
trans-1,2-Dichloroethene	ND	1.1	ND	4.3
MTBE	ND	1.1	ND	3.9
n-Hexane	ND	1.1	ND	3.8
1,1-Dichloroethane	ND	1.1	ND	4.4
Vinyl Acetate	ND	1.1	ND	3.8
cis-1,2-Dichloroethene	ND	1.1	ND	4.3
2-Butanone	ND	1.1	ND	3.2
Ethyl Acetate	ND	1.1	ND	3.9
Tetrahydrofuran	ND	1.1	ND	3.2
Chloroform	ND	1.1	ND	5.3
1,1,1-Trichloroethane	ND	1.1	ND	5.9
Cyclohexane	ND	1.1	ND	3.7
Carbon Tetrachloride	ND	1.1	ND	6.8
Benzene	ND	1.1	ND	3.5
1,2-Dichloroethane	ND	1.1	ND	4.4
n-Heptane	ND	1.1	ND	4.4
Trichloroethene	ND	1.1	ND	5.8
1,2-Dichloropropane	ND	1.1	ND	5.0
Bromodichloromethane	ND	1.1	ND	7.2
cis-1,3-Dichloropropene	ND	1.1	ND	4.9

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-19	Diln Fac:	2.160
Lab ID:	266411-003	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	1.1	ND	4.4
Toluene	ND	1.1	ND	4.1
trans-1,3-Dichloropropene	ND	1.1	ND	4.9
1,1,2-Trichloroethane	ND	1.1	ND	5.9
Tetrachloroethene	ND	1.1	ND	7.3
2-Hexanone	ND	1.1	ND	4.4
Dibromochloromethane	ND	1.1	ND	9.2
1,2-Dibromoethane	ND	1.1	ND	8.3
Chlorobenzene	ND	1.1	ND	5.0
Ethylbenzene	ND	1.1	ND	4.7
m,p-Xylenes	ND	1.1	ND	4.7
o-Xylene	ND	1.1	ND	4.7
Styrene	ND	1.1	ND	4.6
Bromoform	ND	1.1	ND	11
1,1,2,2-Tetrachloroethane	ND	1.1	ND	7.4
4-Ethyltoluene	ND	1.1	ND	5.3
1,3,5-Trimethylbenzene	ND	1.1	ND	5.3
1,2,4-Trimethylbenzene	ND	1.1	ND	5.3
1,3-Dichlorobenzene	ND	1.1	ND	6.5
1,4-Dichlorobenzene	ND	1.1	ND	6.5
Benzyl chloride	ND	1.1	ND	5.6
1,2-Dichlorobenzene	ND	1.1	ND	6.5
1,2,4-Trichlorobenzene	ND	1.1	ND	8.0
Hexachlorobutadiene	ND	1.1	ND	12
Naphthalene	ND	4.3	ND	23

Surrogate	%REC	Limits
Bromofluorobenzene	104	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-14	Diln Fac:	249.6
Lab ID:	266411-004	Batch#:	222770
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/30/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	120	ND	620
Freon 114	ND	120	ND	870
Chloromethane	ND	120	ND	260
Vinyl Chloride	ND	120	ND	320
1,3-Butadiene	ND	120	ND	280
Bromomethane	ND	120	ND	480
Chloroethane	ND	120	ND	330
Trichlorofluoromethane	ND	120	ND	700
Acrolein	ND	500	ND	1,100
1,1-Dichloroethene	ND	120	ND	490
Freon 113	ND	120	ND	960
Acetone	ND	500	ND	1,200
Carbon Disulfide	ND	120	ND	390
Isopropanol	ND	500	ND	1,200
Methylene Chloride	ND	120	ND	430
trans-1,2-Dichloroethene	ND	120	ND	490
MTBE	ND	120	ND	450
n-Hexane	4,200	120	15,000	440
1,1-Dichloroethane	ND	120	ND	510
Vinyl Acetate	ND	120	ND	440
cis-1,2-Dichloroethene	ND	120	ND	490
2-Butanone	ND	120	ND	370
Ethyl Acetate	ND	120	ND	450
Tetrahydrofuran	ND	120	ND	370
Chloroform	ND	120	ND	610
1,1,1-Trichloroethane	ND	120	ND	680
Cyclohexane	ND	120	ND	430
Carbon Tetrachloride	ND	120	ND	790
Benzene	ND	120	ND	400
1,2-Dichloroethane	ND	120	ND	510
n-Heptane	2,200	120	9,200	510
Trichloroethene	ND	120	ND	670
1,2-Dichloropropane	ND	120	ND	580
Bromodichloromethane	ND	120	ND	840
cis-1,3-Dichloropropene	ND	120	ND	570

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-14	Diln Fac:	249.6
Lab ID:	266411-004	Batch#:	222770
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/30/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	120	ND	510
Toluene	ND	120	ND	470
trans-1,3-Dichloropropene	ND	120	ND	570
1,1,2-Trichloroethane	ND	120	ND	680
Tetrachloroethene	ND	120	ND	850
2-Hexanone	ND	120	ND	510
Dibromochloromethane	ND	120	ND	1,100
1,2-Dibromoethane	ND	120	ND	960
Chlorobenzene	ND	120	ND	570
Ethylbenzene	ND	120	ND	540
m,p-Xylenes	ND	120	ND	540
o-Xylene	ND	120	ND	540
Styrene	ND	120	ND	530
Bromoform	ND	120	ND	1,300
1,1,2,2-Tetrachloroethane	ND	120	ND	860
4-Ethyltoluene	ND	120	ND	610
1,3,5-Trimethylbenzene	ND	120	ND	610
1,2,4-Trimethylbenzene	ND	120	ND	610
1,3-Dichlorobenzene	ND	120	ND	750
1,4-Dichlorobenzene	ND	120	ND	750
Benzyl chloride	ND	120	ND	650
1,2-Dichlorobenzene	ND	120	ND	750
1,2,4-Trichlorobenzene	ND	120	ND	930
Hexachlorobutadiene	ND	120	ND	1,300
Naphthalene	ND	500	ND	2,600

Surrogate	%REC	Limits
Bromofluorobenzene	120	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-10	Diln Fac:	210.0
Lab ID:	266411-005	Batch#:	222833
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	05/05/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	110	ND	520
Freon 114	ND	110	ND	730
Chloromethane	ND	110	ND	220
Vinyl Chloride	ND	110	ND	270
1,3-Butadiene	ND	110	ND	230
Bromomethane	ND	110	ND	410
Chloroethane	ND	110	ND	280
Trichlorofluoromethane	ND	110	ND	590
Acrolein	ND	420	ND	960
1,1-Dichloroethene	ND	110	ND	420
Freon 113	ND	110	ND	800
Acetone	ND	420	ND	1,000
Carbon Disulfide	ND	110	ND	330
Isopropanol	ND	420	ND	1,000
Methylene Chloride	ND	110	ND	360
trans-1,2-Dichloroethene	ND	110	ND	420
MTBE	ND	110	ND	380
n-Hexane	8,000	110	28,000	370
1,1-Dichloroethane	ND	110	ND	420
Vinyl Acetate	ND	110	ND	370
cis-1,2-Dichloroethene	ND	110	ND	420
2-Butanone	ND	110	ND	310
Ethyl Acetate	ND	110	ND	380
Tetrahydrofuran	ND	110	ND	310
Chloroform	ND	110	ND	510
1,1,1-Trichloroethane	ND	110	ND	570
Cyclohexane	ND	110	ND	360
Carbon Tetrachloride	ND	110	ND	660
Benzene	350	110	1,100	340
1,2-Dichloroethane	ND	110	ND	420
n-Heptane	3,500	110	14,000	430
Trichloroethene	ND	110	ND	560
1,2-Dichloropropane	ND	110	ND	490
Bromodichloromethane	ND	110	ND	700
cis-1,3-Dichloropropene	ND	110	ND	480

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-10	Diln Fac:	210.0
Lab ID:	266411-005	Batch#:	222833
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	05/05/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	110	ND	430
Toluene	ND	110	ND	400
trans-1,3-Dichloropropene	ND	110	ND	480
1,1,2-Trichloroethane	ND	110	ND	570
Tetrachloroethene	120	110	820	710
2-Hexanone	ND	110	ND	430
Dibromochloromethane	ND	110	ND	890
1,2-Dibromoethane	ND	110	ND	810
Chlorobenzene	ND	110	ND	480
Ethylbenzene	ND	110	ND	460
m,p-Xylenes	ND	110	ND	460
o-Xylene	ND	110	ND	460
Styrene	ND	110	ND	450
Bromoform	ND	110	ND	1,100
1,1,2,2-Tetrachloroethane	ND	110	ND	720
4-Ethyltoluene	ND	110	ND	520
1,3,5-Trimethylbenzene	ND	110	ND	520
1,2,4-Trimethylbenzene	ND	110	ND	520
1,3-Dichlorobenzene	ND	110	ND	630
1,4-Dichlorobenzene	ND	110	ND	630
Benzyl chloride	ND	110	ND	540
1,2-Dichlorobenzene	ND	110	ND	630
1,2,4-Trichlorobenzene	ND	110	ND	780
Hexachlorobutadiene	ND	110	ND	1,100
Naphthalene	ND	420	ND	2,200

Surrogate	%REC	Limits
Bromofluorobenzene	118	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-4	Diln Fac:	13.02
Lab ID:	266411-006	Batch#:	222833
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	05/05/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	6.5	ND	32
Freon 114	ND	6.5	ND	46
Chloromethane	ND	6.5	ND	13
Vinyl Chloride	ND	6.5	ND	17
1,3-Butadiene	ND	6.5	ND	14
Bromomethane	ND	6.5	ND	25
Chloroethane	ND	6.5	ND	17
Trichlorofluoromethane	ND	6.5	ND	37
Acrolein	ND	26	ND	60
1,1-Dichloroethene	ND	6.5	ND	26
Freon 113	ND	6.5	ND	50
Acetone	ND	26	ND	62
Carbon Disulfide	ND	6.5	ND	20
Isopropanol	ND	26	ND	64
Methylene Chloride	ND	6.5	ND	23
trans-1,2-Dichloroethene	ND	6.5	ND	26
MTBE	ND	6.5	ND	23
n-Hexane	ND	6.5	ND	23
1,1-Dichloroethane	ND	6.5	ND	26
Vinyl Acetate	ND	6.5	ND	23
cis-1,2-Dichloroethene	ND	6.5	ND	26
2-Butanone	ND	6.5	ND	19
Ethyl Acetate	ND	6.5	ND	23
Tetrahydrofuran	ND	6.5	ND	19
Chloroform	ND	6.5	ND	32
1,1,1-Trichloroethane	ND	6.5	ND	36
Cyclohexane	ND	6.5	ND	22
Carbon Tetrachloride	ND	6.5	ND	41
Benzene	ND	6.5	ND	21
1,2-Dichloroethane	ND	6.5	ND	26
n-Heptane	ND	6.5	ND	27
Trichloroethene	ND	6.5	ND	35
1,2-Dichloropropane	ND	6.5	ND	30
Bromodichloromethane	ND	6.5	ND	44
cis-1,3-Dichloropropene	ND	6.5	ND	30

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-4	Diln Fac:	13.02
Lab ID:	266411-006	Batch#:	222833
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	05/05/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	6.5	ND	27
Toluene	ND	6.5	ND	25
trans-1,3-Dichloropropene	ND	6.5	ND	30
1,1,2-Trichloroethane	ND	6.5	ND	36
Tetrachloroethene	ND	6.5	ND	44
2-Hexanone	ND	6.5	ND	27
Dibromochloromethane	ND	6.5	ND	55
1,2-Dibromoethane	ND	6.5	ND	50
Chlorobenzene	ND	6.5	ND	30
Ethylbenzene	ND	6.5	ND	28
m,p-Xylenes	ND	6.5	ND	28
o-Xylene	ND	6.5	ND	28
Styrene	ND	6.5	ND	28
Bromoform	ND	6.5	ND	67
1,1,2,2-Tetrachloroethane	ND	6.5	ND	45
4-Ethyltoluene	ND	6.5	ND	32
1,3,5-Trimethylbenzene	ND	6.5	ND	32
1,2,4-Trimethylbenzene	ND	6.5	ND	32
1,3-Dichlorobenzene	ND	6.5	ND	39
1,4-Dichlorobenzene	ND	6.5	ND	39
Benzyl chloride	ND	6.5	ND	34
1,2-Dichlorobenzene	ND	6.5	ND	39
1,2,4-Trichlorobenzene	ND	6.5	ND	48
Hexachlorobutadiene	ND	6.5	ND	69
Naphthalene	ND	26	ND	140

Surrogate	%REC	Limits
Bromofluorobenzene	101	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-7	Diln Fac:	2.110
Lab ID:	266411-007	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	1.1	ND	5.2
Freon 114	ND	1.1	ND	7.4
Chloromethane	ND	1.1	ND	2.2
Vinyl Chloride	ND	1.1	ND	2.7
1,3-Butadiene	ND	1.1	ND	2.3
Bromomethane	ND	1.1	ND	4.1
Chloroethane	ND	1.1	ND	2.8
Trichlorofluoromethane	ND	1.1	ND	5.9
Acrolein	ND	4.2	ND	9.7
1,1-Dichloroethene	ND	1.1	ND	4.2
Freon 113	ND	1.1	ND	8.1
Acetone	ND	4.2	ND	10
Carbon Disulfide	ND	1.1	ND	3.3
Isopropanol	ND	4.2	ND	10
Methylene Chloride	ND	1.1	ND	3.7
trans-1,2-Dichloroethene	ND	1.1	ND	4.2
MTBE	ND	1.1	ND	3.8
n-Hexane	ND	1.1	ND	3.7
1,1-Dichloroethane	ND	1.1	ND	4.3
Vinyl Acetate	ND	1.1	ND	3.7
cis-1,2-Dichloroethene	ND	1.1	ND	4.2
2-Butanone	ND	1.1	ND	3.1
Ethyl Acetate	ND	1.1	ND	3.8
Tetrahydrofuran	ND	1.1	ND	3.1
Chloroform	ND	1.1	ND	5.2
1,1,1-Trichloroethane	ND	1.1	ND	5.8
Cyclohexane	ND	1.1	ND	3.6
Carbon Tetrachloride	ND	1.1	ND	6.6
Benzene	ND	1.1	ND	3.4
1,2-Dichloroethane	ND	1.1	ND	4.3
n-Heptane	ND	1.1	ND	4.3
Trichloroethene	ND	1.1	ND	5.7
1,2-Dichloropropane	ND	1.1	ND	4.9
Bromodichloromethane	ND	1.1	ND	7.1
cis-1,3-Dichloropropene	ND	1.1	ND	4.8

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-7	Diln Fac:	2.110
Lab ID:	266411-007	Batch#:	222697
Matrix:	Air	Sampled:	04/28/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	1.1	ND	4.3
Toluene	ND	1.1	ND	4.0
trans-1,3-Dichloropropene	ND	1.1	ND	4.8
1,1,2-Trichloroethane	ND	1.1	ND	5.8
Tetrachloroethene	ND	1.1	ND	7.2
2-Hexanone	ND	1.1	ND	4.3
Dibromochloromethane	ND	1.1	ND	9.0
1,2-Dibromoethane	ND	1.1	ND	8.1
Chlorobenzene	ND	1.1	ND	4.9
Ethylbenzene	ND	1.1	ND	4.6
m,p-Xylenes	ND	1.1	ND	4.6
o-Xylene	ND	1.1	ND	4.6
Styrene	ND	1.1	ND	4.5
Bromoform	ND	1.1	ND	11
1,1,2,2-Tetrachloroethane	ND	1.1	ND	7.2
4-Ethyltoluene	ND	1.1	ND	5.2
1,3,5-Trimethylbenzene	ND	1.1	ND	5.2
1,2,4-Trimethylbenzene	ND	1.1	ND	5.2
1,3-Dichlorobenzene	ND	1.1	ND	6.3
1,4-Dichlorobenzene	ND	1.1	ND	6.3
Benzyl chloride	ND	1.1	ND	5.5
1,2-Dichlorobenzene	ND	1.1	ND	6.3
1,2,4-Trichlorobenzene	ND	1.1	ND	7.8
Hexachlorobutadiene	ND	1.1	ND	11
Naphthalene	ND	4.2	ND	22

Surrogate	%REC	Limits
Bromofluorobenzene	106	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-15	Diln Fac:	1.940
Lab ID:	266411-008	Batch#:	222697
Matrix:	Air	Sampled:	04/29/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.97	ND	4.8
Freon 114	ND	0.97	ND	6.8
Chloromethane	ND	0.97	ND	2.0
Vinyl Chloride	ND	0.97	ND	2.5
1,3-Butadiene	ND	0.97	ND	2.1
Bromomethane	ND	0.97	ND	3.8
Chloroethane	ND	0.97	ND	2.6
Trichlorofluoromethane	ND	0.97	ND	5.4
Acrolein	ND	3.9	ND	8.9
1,1-Dichloroethene	ND	0.97	ND	3.8
Freon 113	ND	0.97	ND	7.4
Acetone	ND	3.9	ND	9.2
Carbon Disulfide	ND	0.97	ND	3.0
Isopropanol	ND	3.9	ND	9.5
Methylene Chloride	ND	0.97	ND	3.4
trans-1,2-Dichloroethene	ND	0.97	ND	3.8
MTBE	ND	0.97	ND	3.5
n-Hexane	ND	0.97	ND	3.4
1,1-Dichloroethane	ND	0.97	ND	3.9
Vinyl Acetate	ND	0.97	ND	3.4
cis-1,2-Dichloroethene	ND	0.97	ND	3.8
2-Butanone	ND	0.97	ND	2.9
Ethyl Acetate	ND	0.97	ND	3.5
Tetrahydrofuran	ND	0.97	ND	2.9
Chloroform	ND	0.97	ND	4.7
1,1,1-Trichloroethane	ND	0.97	ND	5.3
Cyclohexane	ND	0.97	ND	3.3
Carbon Tetrachloride	ND	0.97	ND	6.1
Benzene	ND	0.97	ND	3.1
1,2-Dichloroethane	ND	0.97	ND	3.9
n-Heptane	ND	0.97	ND	4.0
Trichloroethene	ND	0.97	ND	5.2
1,2-Dichloropropane	ND	0.97	ND	4.5
Bromodichloromethane	ND	0.97	ND	6.5
cis-1,3-Dichloropropene	ND	0.97	ND	4.4

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-15	Diln Fac:	1.940
Lab ID:	266411-008	Batch#:	222697
Matrix:	Air	Sampled:	04/29/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.97	ND	4.0
Toluene	ND	0.97	ND	3.7
trans-1,3-Dichloropropene	ND	0.97	ND	4.4
1,1,2-Trichloroethane	ND	0.97	ND	5.3
Tetrachloroethene	ND	0.97	ND	6.6
2-Hexanone	ND	0.97	ND	4.0
Dibromochloromethane	ND	0.97	ND	8.3
1,2-Dibromoethane	ND	0.97	ND	7.5
Chlorobenzene	ND	0.97	ND	4.5
Ethylbenzene	ND	0.97	ND	4.2
m,p-Xylenes	ND	0.97	ND	4.2
o-Xylene	ND	0.97	ND	4.2
Styrene	ND	0.97	ND	4.1
Bromoform	ND	0.97	ND	10
1,1,2,2-Tetrachloroethane	ND	0.97	ND	6.7
4-Ethyltoluene	ND	0.97	ND	4.8
1,3,5-Trimethylbenzene	ND	0.97	ND	4.8
1,2,4-Trimethylbenzene	ND	0.97	ND	4.8
1,3-Dichlorobenzene	ND	0.97	ND	5.8
1,4-Dichlorobenzene	ND	0.97	ND	5.8
Benzyl chloride	ND	0.97	ND	5.0
1,2-Dichlorobenzene	ND	0.97	ND	5.8
1,2,4-Trichlorobenzene	ND	0.97	ND	7.2
Hexachlorobutadiene	ND	0.97	ND	10
Naphthalene	ND	3.9	ND	20

Surrogate	%REC	Limits
Bromofluorobenzene	100	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-2	Diln Fac:	1.930
Lab ID:	266411-009	Batch#:	222697
Matrix:	Air	Sampled:	04/29/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.97	ND	4.8
Freon 114	ND	0.97	ND	6.7
Chloromethane	ND	0.97	ND	2.0
Vinyl Chloride	ND	0.97	ND	2.5
1,3-Butadiene	ND	0.97	ND	2.1
Bromomethane	ND	0.97	ND	3.7
Chloroethane	ND	0.97	ND	2.5
Trichlorofluoromethane	ND	0.97	ND	5.4
Acrolein	ND	3.9	ND	8.9
1,1-Dichloroethene	ND	0.97	ND	3.8
Freon 113	ND	0.97	ND	7.4
Acetone	ND	3.9	ND	9.2
Carbon Disulfide	ND	0.97	ND	3.0
Isopropanol	ND	3.9	ND	9.5
Methylene Chloride	ND	0.97	ND	3.4
trans-1,2-Dichloroethene	ND	0.97	ND	3.8
MTBE	ND	0.97	ND	3.5
n-Hexane	ND	0.97	ND	3.4
1,1-Dichloroethane	ND	0.97	ND	3.9
Vinyl Acetate	ND	0.97	ND	3.4
cis-1,2-Dichloroethene	ND	0.97	ND	3.8
2-Butanone	ND	0.97	ND	2.8
Ethyl Acetate	ND	0.97	ND	3.5
Tetrahydrofuran	ND	0.97	ND	2.8
Chloroform	ND	0.97	ND	4.7
1,1,1-Trichloroethane	ND	0.97	ND	5.3
Cyclohexane	ND	0.97	ND	3.3
Carbon Tetrachloride	ND	0.97	ND	6.1
Benzene	ND	0.97	ND	3.1
1,2-Dichloroethane	ND	0.97	ND	3.9
n-Heptane	ND	0.97	ND	4.0
Trichloroethene	ND	0.97	ND	5.2
1,2-Dichloropropane	ND	0.97	ND	4.5
Bromodichloromethane	ND	0.97	ND	6.5
cis-1,3-Dichloropropene	ND	0.97	ND	4.4

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-2	Diln Fac:	1.930
Lab ID:	266411-009	Batch#:	222697
Matrix:	Air	Sampled:	04/29/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.97	ND	4.0
Toluene	ND	0.97	ND	3.6
trans-1,3-Dichloropropene	ND	0.97	ND	4.4
1,1,2-Trichloroethane	ND	0.97	ND	5.3
Tetrachloroethene	4.5	0.97	30	6.5
2-Hexanone	ND	0.97	ND	4.0
Dibromochloromethane	ND	0.97	ND	8.2
1,2-Dibromoethane	ND	0.97	ND	7.4
Chlorobenzene	ND	0.97	ND	4.4
Ethylbenzene	ND	0.97	ND	4.2
m,p-Xylenes	ND	0.97	ND	4.2
o-Xylene	ND	0.97	ND	4.2
Styrene	ND	0.97	ND	4.1
Bromoform	ND	0.97	ND	10
1,1,2,2-Tetrachloroethane	ND	0.97	ND	6.6
4-Ethyltoluene	ND	0.97	ND	4.7
1,3,5-Trimethylbenzene	ND	0.97	ND	4.7
1,2,4-Trimethylbenzene	ND	0.97	ND	4.7
1,3-Dichlorobenzene	ND	0.97	ND	5.8
1,4-Dichlorobenzene	ND	0.97	ND	5.8
Benzyl chloride	ND	0.97	ND	5.0
1,2-Dichlorobenzene	ND	0.97	ND	5.8
1,2,4-Trichlorobenzene	ND	0.97	ND	7.2
Hexachlorobutadiene	ND	0.97	ND	10
Naphthalene	ND	3.9	ND	20

Surrogate	%REC	Limits
Bromofluorobenzene	103	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-13	Diln Fac:	2.030
Lab ID:	266411-010	Batch#:	222787
Matrix:	Air	Sampled:	04/29/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	05/01/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	2.2	1.0	11	5.0
Freon 114	ND	1.0	ND	7.1
Chloromethane	ND	1.0	ND	2.1
Vinyl Chloride	ND	1.0	ND	2.6
1,3-Butadiene	ND	1.0	ND	2.2
Bromomethane	ND	1.0	ND	3.9
Chloroethane	ND	1.0	ND	2.7
Trichlorofluoromethane	ND	1.0	ND	5.7
Acrolein	ND	4.1	ND	9.3
1,1-Dichloroethene	ND	1.0	ND	4.0
Freon 113	ND	1.0	ND	7.8
Acetone	ND	4.1	ND	9.6
Carbon Disulfide	ND	1.0	ND	3.2
Isopropanol	ND	4.1	ND	10
Methylene Chloride	ND	1.0	ND	3.5
trans-1,2-Dichloroethene	ND	1.0	ND	4.0
MTBE	ND	1.0	ND	3.7
n-Hexane	ND	1.0	ND	3.6
1,1-Dichloroethane	ND	1.0	ND	4.1
Vinyl Acetate	ND	1.0	ND	3.6
cis-1,2-Dichloroethene	ND	1.0	ND	4.0
2-Butanone	ND	1.0	ND	3.0
Ethyl Acetate	ND	1.0	ND	3.7
Tetrahydrofuran	ND	1.0	ND	3.0
Chloroform	ND	1.0	ND	5.0
1,1,1-Trichloroethane	ND	1.0	ND	5.5
Cyclohexane	ND	1.0	ND	3.5
Carbon Tetrachloride	ND	1.0	ND	6.4
Benzene	ND	1.0	ND	3.2
1,2-Dichloroethane	ND	1.0	ND	4.1
n-Heptane	ND	1.0	ND	4.2
Trichloroethene	ND	1.0	ND	5.5
1,2-Dichloropropane	ND	1.0	ND	4.7
Bromodichloromethane	ND	1.0	ND	6.8
cis-1,3-Dichloropropene	ND	1.0	ND	4.6

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Field ID:	SV-13	Diln Fac:	2.030
Lab ID:	266411-010	Batch#:	222787
Matrix:	Air	Sampled:	04/29/15
Units (V):	ppbv	Received:	04/29/15
Units (M):	ug/m3	Analyzed:	05/01/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	1.0	ND	4.2
Toluene	ND	1.0	ND	3.8
trans-1,3-Dichloropropene	ND	1.0	ND	4.6
1,1,2-Trichloroethane	ND	1.0	ND	5.5
Tetrachloroethene	ND	1.0	ND	6.9
2-Hexanone	ND	1.0	ND	4.2
Dibromochloromethane	ND	1.0	ND	8.6
1,2-Dibromoethane	ND	1.0	ND	7.8
Chlorobenzene	ND	1.0	ND	4.7
Ethylbenzene	ND	1.0	ND	4.4
m,p-Xylenes	ND	1.0	ND	4.4
o-Xylene	ND	1.0	ND	4.4
Styrene	ND	1.0	ND	4.3
Bromoform	ND	1.0	ND	10
1,1,2,2-Tetrachloroethane	ND	1.0	ND	7.0
4-Ethyltoluene	ND	1.0	ND	5.0
1,3,5-Trimethylbenzene	ND	1.0	ND	5.0
1,2,4-Trimethylbenzene	ND	1.0	ND	5.0
1,3-Dichlorobenzene	ND	1.0	ND	6.1
1,4-Dichlorobenzene	ND	1.0	ND	6.1
Benzyl chloride	ND	1.0	ND	5.3
1,2-Dichlorobenzene	ND	1.0	ND	6.1
1,2,4-Trichlorobenzene	ND	1.0	ND	7.5
Hexachlorobutadiene	ND	1.0	ND	11
Naphthalene	ND	4.1	ND	21

Surrogate	%REC	Limits
Bromofluorobenzene	95	80-121

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222697
Units (V):	ppbv	Analyzed:	04/29/15
Diln Fac:	1.000		

Type: BS Lab ID: QC785978

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	8.925	89	70-130
Freon 114	10.00	9.347	93	70-130
Chloromethane	10.00	8.561	86	70-130
Vinyl Chloride	10.00	9.225	92	70-130
1,3-Butadiene	10.00	12.53	125	70-130
Bromomethane	10.00	9.434	94	70-130
Chloroethane	10.00	10.24	102	70-130
Trichlorofluoromethane	10.00	9.217	92	70-130
Acrolein	10.00	9.987	100	70-130
1,1-Dichloroethene	10.00	9.290	93	70-130
Freon 113	10.00	9.290	93	70-130
Acetone	10.00	8.960	90	70-130
Carbon Disulfide	10.00	9.008	90	70-130
Isopropanol	10.00	7.581	76	70-130
Methylene Chloride	10.00	9.206	92	70-130
trans-1,2-Dichloroethene	10.00	9.872	99	70-130
MTBE	10.00	9.449	94	70-130
n-Hexane	10.00	9.373	94	70-130
1,1-Dichloroethane	10.00	8.607	86	70-130
Vinyl Acetate	10.00	10.89	109	70-130
cis-1,2-Dichloroethene	10.00	9.605	96	70-130
2-Butanone	10.00	12.11	121	70-130
Ethyl Acetate	10.00	9.826	98	70-130
Tetrahydrofuran	10.00	9.356	94	70-130
Chloroform	10.00	8.760	88	70-130
1,1,1-Trichloroethane	10.00	10.50	105	70-130
Cyclohexane	10.00	10.56	106	70-130
Carbon Tetrachloride	10.00	10.33	103	70-130
Benzene	10.00	10.28	103	70-130
1,2-Dichloroethane	10.00	10.04	100	70-130
n-Heptane	10.00	12.38	124	70-130
Trichloroethene	10.00	10.25	103	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222697
Units (V):	ppbv	Analyzed:	04/29/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	10.80	108	70-130
Bromodichloromethane	10.00	10.57	106	70-130
cis-1,3-Dichloropropene	10.00	10.57	106	70-130
4-Methyl-2-Pentanone	10.00	12.20	122	70-130
Toluene	10.00	11.13	111	70-130
trans-1,3-Dichloropropene	10.00	10.86	109	70-130
1,1,2-Trichloroethane	10.00	10.60	106	70-130
Tetrachloroethene	10.00	10.60	106	70-130
2-Hexanone	10.00	12.75	127	70-130
Dibromochloromethane	10.00	10.07	101	70-130
1,2-Dibromoethane	10.00	10.46	105	70-130
Chlorobenzene	10.00	11.19	112	70-130
Ethylbenzene	10.00	11.08	111	70-130
m,p-Xylenes	20.00	22.47	112	70-130
o-Xylene	10.00	11.35	114	70-130
Styrene	10.00	11.22	112	70-130
Bromoform	10.00	10.18	102	70-130
1,1,2,2-Tetrachloroethane	10.00	10.90	109	70-130
4-Ethyltoluene	10.00	11.41	114	70-130
1,3,5-Trimethylbenzene	10.00	11.17	112	70-130
1,2,4-Trimethylbenzene	10.00	11.66	117	70-130
1,3-Dichlorobenzene	10.00	10.77	108	70-130
1,4-Dichlorobenzene	10.00	11.14	111	70-130
Benzyl chloride	10.00	11.49	115	70-130
1,2-Dichlorobenzene	10.00	10.99	110	70-130
1,2,4-Trichlorobenzene	10.00	12.78	128	70-130
Hexachlorobutadiene	10.00	11.89	119	70-130
Naphthalene	10.00	13.65 b	136 *	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	105	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222697
Units (V):	ppbv	Analyzed:	04/29/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC785979

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	8.752	88	70-130	2	25
Freon 114	10.00	9.320	93	70-130	0	25
Chloromethane	10.00	8.816	88	70-130	3	25
Vinyl Chloride	10.00	9.203	92	70-130	0	25
1,3-Butadiene	10.00	12.57	126	70-130	0	25
Bromomethane	10.00	9.238	92	70-130	2	25
Chloroethane	10.00	10.13	101	70-130	1	25
Trichlorofluoromethane	10.00	9.205	92	70-130	0	25
Acrolein	10.00	9.734	97	70-130	3	25
1,1-Dichloroethene	10.00	9.181	92	70-130	1	25
Freon 113	10.00	9.050	91	70-130	3	25
Acetone	10.00	9.116	91	70-130	2	25
Carbon Disulfide	10.00	9.090	91	70-130	1	25
Isopropanol	10.00	8.011	80	70-130	6	25
Methylene Chloride	10.00	9.210	92	70-130	0	25
trans-1,2-Dichloroethene	10.00	9.818	98	70-130	1	25
MTBE	10.00	9.426	94	70-130	0	25
n-Hexane	10.00	9.314	93	70-130	1	25
1,1-Dichloroethane	10.00	8.570	86	70-130	0	25
Vinyl Acetate	10.00	10.53	105	70-130	3	25
cis-1,2-Dichloroethene	10.00	9.469	95	70-130	1	25
2-Butanone	10.00	11.96	120	70-130	1	25
Ethyl Acetate	10.00	9.488	95	70-130	4	25
Tetrahydrofuran	10.00	9.878	99	70-130	5	25
Chloroform	10.00	8.767	88	70-130	0	25
1,1,1-Trichloroethane	10.00	10.45	104	70-130	1	25
Cyclohexane	10.00	10.54	105	70-130	0	25
Carbon Tetrachloride	10.00	10.34	103	70-130	0	25
Benzene	10.00	10.41	104	70-130	1	25
1,2-Dichloroethane	10.00	10.21	102	70-130	2	25
n-Heptane	10.00	12.40	124	70-130	0	25
Trichloroethene	10.00	10.15	102	70-130	1	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222697
Units (V):	ppbv	Analyzed:	04/29/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	10.71	107	70-130	1	25
Bromodichloromethane	10.00	10.44	104	70-130	1	25
cis-1,3-Dichloropropene	10.00	10.57	106	70-130	0	25
4-Methyl-2-Pentanone	10.00	12.01	120	70-130	2	25
Toluene	10.00	11.50	115	70-130	3	25
trans-1,3-Dichloropropene	10.00	10.57	106	70-130	3	25
1,1,2-Trichloroethane	10.00	10.82	108	70-130	2	25
Tetrachloroethene	10.00	10.76	108	70-130	1	25
2-Hexanone	10.00	12.95	130	70-130	2	25
Dibromochloromethane	10.00	10.44	104	70-130	4	25
1,2-Dibromoethane	10.00	10.79	108	70-130	3	25
Chlorobenzene	10.00	11.25	113	70-130	1	25
Ethylbenzene	10.00	11.18	112	70-130	1	25
m,p-Xylenes	20.00	22.82	114	70-130	2	25
o-Xylene	10.00	11.72	117	70-130	3	25
Styrene	10.00	11.50	115	70-130	2	25
Bromoform	10.00	10.59	106	70-130	4	25
1,1,2,2-Tetrachloroethane	10.00	11.28	113	70-130	3	25
4-Ethyltoluene	10.00	11.39	114	70-130	0	25
1,3,5-Trimethylbenzene	10.00	11.39	114	70-130	2	25
1,2,4-Trimethylbenzene	10.00	11.81	118	70-130	1	25
1,3-Dichlorobenzene	10.00	11.28	113	70-130	5	25
1,4-Dichlorobenzene	10.00	11.13	111	70-130	0	25
Benzyl chloride	10.00	11.92	119	70-130	4	25
1,2-Dichlorobenzene	10.00	11.15	111	70-130	1	25
1,2,4-Trichlorobenzene	10.00	13.63	136 *	70-130	6	25
Hexachlorobutadiene	10.00	12.38	124	70-130	4	25
Naphthalene	10.00	14.07 b	141 *	70-130	3	25

Surrogate	%REC	Limits
Bromofluorobenzene	94	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC785980	Diln Fac:	1.000
Matrix:	Air	Batch#:	222697
Units (V):	ppbv	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC785980	Diln Fac:	1.000
Matrix:	Air	Batch#:	222697
Units (V):	ppbv	Analyzed:	04/29/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	103	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222770
Units (V):	ppbv	Analyzed:	04/30/15
Diln Fac:	1.000		

Type: BS Lab ID: QC786266

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	9.450	95	70-130
Freon 114	10.00	9.859	99	70-130
Chloromethane	10.00	8.891	89	70-130
Vinyl Chloride	10.00	9.579	96	70-130
1,3-Butadiene	10.00	12.82	128	70-130
Bromomethane	10.00	10.05	101	70-130
Chloroethane	10.00	10.53	105	70-130
Trichlorofluoromethane	10.00	9.883	99	70-130
Acrolein	10.00	10.19	102	70-130
1,1-Dichloroethene	10.00	9.368	94	70-130
Freon 113	10.00	9.961	100	70-130
Acetone	10.00	9.271	93	70-130
Carbon Disulfide	10.00	9.368	94	70-130
Isopropanol	10.00	8.161	82	70-130
Methylene Chloride	10.00	9.567	96	70-130
trans-1,2-Dichloroethene	10.00	10.62	106	70-130
MTBE	10.00	10.31	103	70-130
n-Hexane	10.00	10.11	101	70-130
1,1-Dichloroethane	10.00	8.943	89	70-130
Vinyl Acetate	10.00	11.60	116	70-130
cis-1,2-Dichloroethene	10.00	9.936	99	70-130
2-Butanone	10.00	12.95	130	70-130
Ethyl Acetate	10.00	10.63	106	70-130
Tetrahydrofuran	10.00	9.602	96	70-130
Chloroform	10.00	9.365	94	70-130
1,1,1-Trichloroethane	10.00	10.55	105	70-130
Cyclohexane	10.00	10.41	104	70-130
Carbon Tetrachloride	10.00	10.33	103	70-130
Benzene	10.00	10.21	102	70-130
1,2-Dichloroethane	10.00	10.02	100	70-130
n-Heptane	10.00	12.35	124	70-130
Trichloroethene	10.00	10.31	103	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222770
Units (V):	ppbv	Analyzed:	04/30/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	10.68	107	70-130
Bromodichloromethane	10.00	10.63	106	70-130
cis-1,3-Dichloropropene	10.00	10.63	106	70-130
4-Methyl-2-Pentanone	10.00	12.22	122	70-130
Toluene	10.00	11.83	118	70-130
trans-1,3-Dichloropropene	10.00	10.94	109	70-130
1,1,2-Trichloroethane	10.00	11.06	111	70-130
Tetrachloroethene	10.00	11.25	113	70-130
2-Hexanone	10.00	13.74 b	137 *	70-130
Dibromochloromethane	10.00	10.61	106	70-130
1,2-Dibromoethane	10.00	11.02	110	70-130
Chlorobenzene	10.00	11.64	116	70-130
Ethylbenzene	10.00	11.93	119	70-130
m,p-Xylenes	20.00	23.38	117	70-130
o-Xylene	10.00	11.91	119	70-130
Styrene	10.00	11.44	114	70-130
Bromoform	10.00	10.89	109	70-130
1,1,2,2-Tetrachloroethane	10.00	11.31	113	70-130
4-Ethyltoluene	10.00	12.24	122	70-130
1,3,5-Trimethylbenzene	10.00	11.60	116	70-130
1,2,4-Trimethylbenzene	10.00	11.66	117	70-130
1,3-Dichlorobenzene	10.00	11.30	113	70-130
1,4-Dichlorobenzene	10.00	11.33	113	70-130
Benzyl chloride	10.00	12.08	121	70-130
1,2-Dichlorobenzene	10.00	11.00	110	70-130
1,2,4-Trichlorobenzene	10.00	8.699	87	70-130
Hexachlorobutadiene	10.00	11.13	111	70-130
Naphthalene	10.00	8.904	89	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	88	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222770
Units (V):	ppbv	Analyzed:	04/30/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC786267

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	8.942	89	70-130	6	25
Freon 114	10.00	9.529	95	70-130	3	25
Chloromethane	10.00	8.906	89	70-130	0	25
Vinyl Chloride	10.00	9.433	94	70-130	2	25
1,3-Butadiene	10.00	12.69	127	70-130	1	25
Bromomethane	10.00	9.655	97	70-130	4	25
Chloroethane	10.00	10.21	102	70-130	3	25
Trichlorofluoromethane	10.00	9.734	97	70-130	2	25
Acrolein	10.00	10.06	101	70-130	1	25
1,1-Dichloroethene	10.00	9.160	92	70-130	2	25
Freon 113	10.00	9.733	97	70-130	2	25
Acetone	10.00	9.109	91	70-130	2	25
Carbon Disulfide	10.00	9.176	92	70-130	2	25
Isopropanol	10.00	7.784	78	70-130	5	25
Methylene Chloride	10.00	9.400	94	70-130	2	25
trans-1,2-Dichloroethene	10.00	10.09	101	70-130	5	25
MTBE	10.00	10.00	100	70-130	3	25
n-Hexane	10.00	9.650	97	70-130	5	25
1,1-Dichloroethane	10.00	8.579	86	70-130	4	25
Vinyl Acetate	10.00	11.13	111	70-130	4	25
cis-1,2-Dichloroethene	10.00	9.676	97	70-130	3	25
2-Butanone	10.00	12.71	127	70-130	2	25
Ethyl Acetate	10.00	10.24	102	70-130	4	25
Tetrahydrofuran	10.00	9.462	95	70-130	1	25
Chloroform	10.00	8.806	88	70-130	6	25
1,1,1-Trichloroethane	10.00	10.31	103	70-130	2	25
Cyclohexane	10.00	10.45	104	70-130	0	25
Carbon Tetrachloride	10.00	10.18	102	70-130	2	25
Benzene	10.00	10.03	100	70-130	2	25
1,2-Dichloroethane	10.00	9.961	100	70-130	1	25
n-Heptane	10.00	12.18	122	70-130	1	25
Trichloroethene	10.00	10.20	102	70-130	1	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222770
Units (V):	ppbv	Analyzed:	04/30/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	10.63	106	70-130	0	25
Bromodichloromethane	10.00	10.37	104	70-130	2	25
cis-1,3-Dichloropropene	10.00	10.66	107	70-130	0	25
4-Methyl-2-Pentanone	10.00	12.21	122	70-130	0	25
Toluene	10.00	11.22	112	70-130	5	25
trans-1,3-Dichloropropene	10.00	10.55	106	70-130	4	25
1,1,2-Trichloroethane	10.00	10.36	104	70-130	7	25
Tetrachloroethene	10.00	10.47	105	70-130	7	25
2-Hexanone	10.00	13.08 b	131 *	70-130	5	25
Dibromochloromethane	10.00	10.11	101	70-130	5	25
1,2-Dibromoethane	10.00	10.44	104	70-130	5	25
Chlorobenzene	10.00	10.95	110	70-130	6	25
Ethylbenzene	10.00	11.08	111	70-130	7	25
m,p-Xylenes	20.00	22.89	114	70-130	2	25
o-Xylene	10.00	11.19	112	70-130	6	25
Styrene	10.00	11.12	111	70-130	3	25
Bromoform	10.00	10.15	101	70-130	7	25
1,1,2,2-Tetrachloroethane	10.00	11.22	112	70-130	1	25
4-Ethyltoluene	10.00	11.41	114	70-130	7	25
1,3,5-Trimethylbenzene	10.00	11.03	110	70-130	5	25
1,2,4-Trimethylbenzene	10.00	11.25	112	70-130	4	25
1,3-Dichlorobenzene	10.00	11.33	113	70-130	0	25
1,4-Dichlorobenzene	10.00	10.92	109	70-130	4	25
Benzyl chloride	10.00	11.52	115	70-130	5	25
1,2-Dichlorobenzene	10.00	10.77	108	70-130	2	25
1,2,4-Trichlorobenzene	10.00	8.991	90	70-130	3	25
Hexachlorobutadiene	10.00	11.04	110	70-130	1	25
Naphthalene	10.00	9.109	91	70-130	2	25

Surrogate	%REC	Limits
Bromofluorobenzene	96	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC786268	Diln Fac:	1.000
Matrix:	Air	Batch#:	222770
Units (V):	ppbv	Analyzed:	04/30/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC786268	Diln Fac:	1.000
Matrix:	Air	Batch#:	222770
Units (V):	ppbv	Analyzed:	04/30/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	98	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222787
Units (V):	ppbv	Analyzed:	05/01/15
Diln Fac:	1.000		

Type: BS Lab ID: QC786334

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	8.978	90	70-130
Freon 114	10.00	8.967	90	70-130
Chloromethane	10.00	9.176	92	70-130
Vinyl Chloride	10.00	10.06	101	70-130
1,3-Butadiene	10.00	8.857	89	70-130
Bromomethane	10.00	9.116	91	70-130
Chloroethane	10.00	9.447	94	70-130
Trichlorofluoromethane	10.00	8.804	88	70-130
Acrolein	10.00	9.452	95	70-130
1,1-Dichloroethene	10.00	10.02	100	70-130
Freon 113	10.00	9.171	92	70-130
Acetone	10.00	8.282	83	70-130
Carbon Disulfide	10.00	9.136	91	70-130
Isopropanol	10.00	9.464	95	70-130
Methylene Chloride	10.00	9.336	93	70-130
trans-1,2-Dichloroethene	10.00	9.917	99	70-130
MTBE	10.00	9.717	97	70-130
n-Hexane	10.00	8.763	88	70-130
1,1-Dichloroethane	10.00	9.644	96	70-130
Vinyl Acetate	10.00	9.733	97	70-130
cis-1,2-Dichloroethene	10.00	10.08	101	70-130
2-Butanone	10.00	8.069	81	70-130
Ethyl Acetate	10.00	8.603	86	70-130
Tetrahydrofuran	10.00	11.80	118	70-130
Chloroform	10.00	8.875	89	70-130
1,1,1-Trichloroethane	10.00	10.53	105	70-130
Cyclohexane	10.00	11.08	111	70-130
Carbon Tetrachloride	10.00	10.71	107	70-130
Benzene	10.00	10.38	104	70-130
1,2-Dichloroethane	10.00	10.87	109	70-130
n-Heptane	10.00	10.68	107	70-130
Trichloroethene	10.00	9.159	92	70-130
1,2-Dichloropropane	10.00	11.40	114	70-130

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222787
Units (V):	ppbv	Analyzed:	05/01/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
Bromodichloromethane	10.00	10.53	105	70-130
cis-1,3-Dichloropropene	10.00	10.56	106	70-130
4-Methyl-2-Pentanone	10.00	11.72	117	70-130
Toluene	10.00	9.483	95	70-130
trans-1,3-Dichloropropene	10.00	10.72	107	70-130
1,1,2-Trichloroethane	10.00	10.40	104	70-130
Tetrachloroethene	10.00	9.199	92	70-130
2-Hexanone	10.00	10.89	109	70-130
Dibromochloromethane	10.00	9.830	98	70-130
1,2-Dibromoethane	10.00	9.747	97	70-130
Chlorobenzene	10.00	9.121	91	70-130
Ethylbenzene	10.00	9.476	95	70-130
m,p-Xylenes	20.00	19.58	98	70-130
o-Xylene	10.00	9.754	98	70-130
Styrene	10.00	9.154	92	70-130
Bromoform	10.00	9.975	100	70-130
1,1,2,2-Tetrachloroethane	10.00	9.874	99	70-130
4-Ethyltoluene	10.00	10.46	105	70-130
1,3,5-Trimethylbenzene	10.00	10.47	105	70-130
1,2,4-Trimethylbenzene	10.00	11.24	112	70-130
1,3-Dichlorobenzene	10.00	9.885	99	70-130
1,4-Dichlorobenzene	10.00	9.752	98	70-130
Benzyl chloride	10.00	9.411	94	70-130
1,2-Dichlorobenzene	10.00	10.00	100	70-130
1,2,4-Trichlorobenzene	10.00	12.65	127	70-130
Hexachlorobutadiene	10.00	12.53	125	70-130
Naphthalene	10.00	12.82	128	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	101	70-130

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222787
Units (V):	ppbv	Analyzed:	05/01/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC786335

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	9.114	91	70-130	2	25
Freon 114	10.00	9.055	91	70-130	1	25
Chloromethane	10.00	9.520	95	70-130	4	25
Vinyl Chloride	10.00	9.983	100	70-130	1	25
1,3-Butadiene	10.00	8.807	88	70-130	1	25
Bromomethane	10.00	9.156	92	70-130	0	25
Chloroethane	10.00	9.500	95	70-130	1	25
Trichlorofluoromethane	10.00	8.944	89	70-130	2	25
Acrolein	10.00	9.377	94	70-130	1	25
1,1-Dichloroethene	10.00	9.937	99	70-130	1	25
Freon 113	10.00	9.136	91	70-130	0	25
Acetone	10.00	8.228	82	70-130	1	25
Carbon Disulfide	10.00	9.087	91	70-130	1	25
Isopropanol	10.00	9.864	99	70-130	4	25
Methylene Chloride	10.00	9.309	93	70-130	0	25
trans-1,2-Dichloroethene	10.00	10.11	101	70-130	2	25
MTBE	10.00	9.576	96	70-130	1	25
n-Hexane	10.00	9.009	90	70-130	3	25
1,1-Dichloroethane	10.00	9.675	97	70-130	0	25
Vinyl Acetate	10.00	9.813	98	70-130	1	25
cis-1,2-Dichloroethene	10.00	10.03	100	70-130	0	25
2-Butanone	10.00	8.241	82	70-130	2	25
Ethyl Acetate	10.00	8.982	90	70-130	4	25
Tetrahydrofuran	10.00	11.63	116	70-130	1	25
Chloroform	10.00	8.875	89	70-130	0	25
1,1,1-Trichloroethane	10.00	10.27	103	70-130	2	25
Cyclohexane	10.00	10.94	109	70-130	1	25
Carbon Tetrachloride	10.00	10.45	104	70-130	2	25
Benzene	10.00	10.54	105	70-130	2	25
1,2-Dichloroethane	10.00	10.78	108	70-130	1	25
n-Heptane	10.00	10.78	108	70-130	1	25
Trichloroethene	10.00	9.237	92	70-130	1	25
1,2-Dichloropropane	10.00	11.35	114	70-130	0	25

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222787
Units (V):	ppbv	Analyzed:	05/01/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Bromodichloromethane	10.00	10.27	103	70-130	3	25
cis-1,3-Dichloropropene	10.00	10.51	105	70-130	0	25
4-Methyl-2-Pentanone	10.00	11.73	117	70-130	0	25
Toluene	10.00	9.856	99	70-130	4	25
trans-1,3-Dichloropropene	10.00	10.52	105	70-130	2	25
1,1,2-Trichloroethane	10.00	10.63	106	70-130	2	25
Tetrachloroethene	10.00	9.478	95	70-130	3	25
2-Hexanone	10.00	10.96	110	70-130	1	25
Dibromochloromethane	10.00	9.832	98	70-130	0	25
1,2-Dibromoethane	10.00	9.803	98	70-130	1	25
Chlorobenzene	10.00	9.454	95	70-130	4	25
Ethylbenzene	10.00	9.421	94	70-130	1	25
m,p-Xylenes	20.00	19.78	99	70-130	1	25
o-Xylene	10.00	10.03	100	70-130	3	25
Styrene	10.00	9.373	94	70-130	2	25
Bromoform	10.00	10.38	104	70-130	4	25
1,1,2,2-Tetrachloroethane	10.00	10.04	100	70-130	2	25
4-Ethyltoluene	10.00	10.44	104	70-130	0	25
1,3,5-Trimethylbenzene	10.00	10.31	103	70-130	2	25
1,2,4-Trimethylbenzene	10.00	11.45	114	70-130	2	25
1,3-Dichlorobenzene	10.00	10.23	102	70-130	3	25
1,4-Dichlorobenzene	10.00	9.876	99	70-130	1	25
Benzyl chloride	10.00	9.764	98	70-130	4	25
1,2-Dichlorobenzene	10.00	10.27	103	70-130	3	25
1,2,4-Trichlorobenzene	10.00	12.67	127	70-130	0	25
Hexachlorobutadiene	10.00	12.79	128	70-130	2	25
Naphthalene	10.00	13.14	131 *	70-130	2	25

Surrogate	%REC	Limits
Bromofluorobenzene	103	70-130

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC786336	Diln Fac:	1.000
Matrix:	Air	Batch#:	222787
Units (V):	ppbv	Analyzed:	05/01/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC786336	Diln Fac:	1.000
Matrix:	Air	Batch#:	222787
Units (V):	ppbv	Analyzed:	05/01/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	93	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222833
Units (V):	ppbv	Analyzed:	05/04/15
Diln Fac:	1.000		

Type: BS Lab ID: QC786519

Analyte	Spiked	Result (V)	%REC	Limits
Freon 12	10.00	8.412	84	70-130
Freon 114	10.00	8.499	85	70-130
Chloromethane	10.00	8.671	87	70-130
Vinyl Chloride	10.00	9.480	95	70-130
1,3-Butadiene	10.00	8.732	87	70-130
Bromomethane	10.00	8.566	86	70-130
Chloroethane	10.00	9.344	93	70-130
Trichlorofluoromethane	10.00	8.338	83	70-130
Acrolein	10.00	9.150	92	70-130
1,1-Dichloroethene	10.00	9.584	96	70-130
Freon 113	10.00	8.696	87	70-130
Acetone	10.00	8.082	81	70-130
Carbon Disulfide	10.00	8.748	87	70-130
Isopropanol	10.00	9.045	90	70-130
Methylene Chloride	10.00	9.010	90	70-130
trans-1,2-Dichloroethene	10.00	9.703	97	70-130
MTBE	10.00	9.326	93	70-130
n-Hexane	10.00	8.409	84	70-130
1,1-Dichloroethane	10.00	9.333	93	70-130
Vinyl Acetate	10.00	9.411	94	70-130
cis-1,2-Dichloroethene	10.00	9.783	98	70-130
2-Butanone	10.00	7.978	80	70-130
Ethyl Acetate	10.00	8.534	85	70-130
Tetrahydrofuran	10.00	12.16	122	70-130
Chloroform	10.00	8.332	83	70-130
1,1,1-Trichloroethane	10.00	10.50	105	70-130
Cyclohexane	10.00	11.12	111	70-130
Carbon Tetrachloride	10.00	10.47	105	70-130
Benzene	10.00	10.37	104	70-130
1,2-Dichloroethane	10.00	11.22	112	70-130
n-Heptane	10.00	10.48	105	70-130
Trichloroethene	10.00	9.461	95	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222833
Units (V):	ppbv	Analyzed:	05/04/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits
1,2-Dichloropropane	10.00	11.60	116	70-130
Bromodichloromethane	10.00	10.44	104	70-130
cis-1,3-Dichloropropene	10.00	10.87	109	70-130
4-Methyl-2-Pentanone	10.00	11.81	118	70-130
Toluene	10.00	9.666	97	70-130
trans-1,3-Dichloropropene	10.00	10.99	110	70-130
1,1,2-Trichloroethane	10.00	10.92	109	70-130
Tetrachloroethene	10.00	9.423	94	70-130
2-Hexanone	10.00	10.96	110	70-130
Dibromochloromethane	10.00	9.768	98	70-130
1,2-Dibromoethane	10.00	9.961	100	70-130
Chlorobenzene	10.00	8.930	89	70-130
Ethylbenzene	10.00	9.126	91	70-130
m,p-Xylenes	20.00	19.04	95	70-130
o-Xylene	10.00	9.618	96	70-130
Styrene	10.00	8.924	89	70-130
Bromoform	10.00	10.17	102	70-130
1,1,2,2-Tetrachloroethane	10.00	9.887	99	70-130
4-Ethyltoluene	10.00	10.22	102	70-130
1,3,5-Trimethylbenzene	10.00	10.31	103	70-130
1,2,4-Trimethylbenzene	10.00	11.39	114	70-130
1,3-Dichlorobenzene	10.00	9.804	98	70-130
1,4-Dichlorobenzene	10.00	9.721	97	70-130
Benzyl chloride	10.00	9.163	92	70-130
1,2-Dichlorobenzene	10.00	10.18	102	70-130
1,2,4-Trichlorobenzene	10.00	12.68	127	70-130
Hexachlorobutadiene	10.00	11.88	119	70-130
Naphthalene	10.00	13.31 b	133 *	70-130

Surrogate	%REC	Limits
Bromofluorobenzene	100	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222833
Units (V):	ppbv	Analyzed:	05/04/15
Diln Fac:	1.000		

Type: BSD Lab ID: QC786520

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
Freon 12	10.00	8.356	84	70-130	1	25
Freon 114	10.00	8.463	85	70-130	0	25
Chloromethane	10.00	8.992	90	70-130	4	25
Vinyl Chloride	10.00	9.612	96	70-130	1	25
1,3-Butadiene	10.00	8.705	87	70-130	0	25
Bromomethane	10.00	8.445	84	70-130	1	25
Chloroethane	10.00	9.997	100	70-130	7	25
Trichlorofluoromethane	10.00	8.272	83	70-130	1	25
Acrolein	10.00	9.138	91	70-130	0	25
1,1-Dichloroethene	10.00	9.519	95	70-130	1	25
Freon 113	10.00	8.542	85	70-130	2	25
Acetone	10.00	8.310	83	70-130	3	25
Carbon Disulfide	10.00	8.584	86	70-130	2	25
Isopropanol	10.00	9.457	95	70-130	4	25
Methylene Chloride	10.00	9.114	91	70-130	1	25
trans-1,2-Dichloroethene	10.00	9.920	99	70-130	2	25
MTBE	10.00	9.235	92	70-130	1	25
n-Hexane	10.00	8.643	86	70-130	3	25
1,1-Dichloroethane	10.00	9.491	95	70-130	2	25
Vinyl Acetate	10.00	9.664	97	70-130	3	25
cis-1,2-Dichloroethene	10.00	9.839	98	70-130	1	25
2-Butanone	10.00	8.122	81	70-130	2	25
Ethyl Acetate	10.00	8.728	87	70-130	2	25
Tetrahydrofuran	10.00	11.84	118	70-130	3	25
Chloroform	10.00	8.399	84	70-130	1	25
1,1,1-Trichloroethane	10.00	10.40	104	70-130	1	25
Cyclohexane	10.00	11.30	113	70-130	2	25
Carbon Tetrachloride	10.00	10.39	104	70-130	1	25
Benzene	10.00	10.67	107	70-130	3	25
1,2-Dichloroethane	10.00	11.47	115	70-130	2	25
n-Heptane	10.00	10.48	105	70-130	0	25
Trichloroethene	10.00	9.608	96	70-130	2	25

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Matrix:	Air	Batch#:	222833
Units (V):	ppbv	Analyzed:	05/04/15
Diln Fac:	1.000		

Analyte	Spiked	Result (V)	%REC	Limits	RPD	Lim
1,2-Dichloropropane	10.00	11.49	115	70-130	1	25
Bromodichloromethane	10.00	10.41	104	70-130	0	25
cis-1,3-Dichloropropene	10.00	11.04	110	70-130	2	25
4-Methyl-2-Pentanone	10.00	11.85	119	70-130	0	25
Toluene	10.00	9.594	96	70-130	1	25
trans-1,3-Dichloropropene	10.00	11.03	110	70-130	0	25
1,1,2-Trichloroethane	10.00	10.88	109	70-130	0	25
Tetrachloroethene	10.00	9.501	95	70-130	1	25
2-Hexanone	10.00	11.22	112	70-130	2	25
Dibromochloromethane	10.00	10.19	102	70-130	4	25
1,2-Dibromoethane	10.00	10.14	101	70-130	2	25
Chlorobenzene	10.00	8.993	90	70-130	1	25
Ethylbenzene	10.00	9.122	91	70-130	0	25
m,p-Xylenes	20.00	18.97	95	70-130	0	25
o-Xylene	10.00	9.600	96	70-130	0	25
Styrene	10.00	9.010	90	70-130	1	25
Bromoform	10.00	10.45	105	70-130	3	25
1,1,2,2-Tetrachloroethane	10.00	10.27	103	70-130	4	25
4-Ethyltoluene	10.00	10.07	101	70-130	1	25
1,3,5-Trimethylbenzene	10.00	10.59	106	70-130	3	25
1,2,4-Trimethylbenzene	10.00	10.90	109	70-130	4	25
1,3-Dichlorobenzene	10.00	9.884	99	70-130	1	25
1,4-Dichlorobenzene	10.00	9.919	99	70-130	2	25
Benzyl chloride	10.00	8.972	90	70-130	2	25
1,2-Dichlorobenzene	10.00	10.09	101	70-130	1	25
1,2,4-Trichlorobenzene	10.00	12.83	128	70-130	1	25
Hexachlorobutadiene	10.00	12.13	121	70-130	2	25
Naphthalene	10.00	13.37 b	134 *	70-130	0	25

Surrogate	%REC	Limits
Bromofluorobenzene	103	70-130

*= Value outside of QC limits; see narrative
b= See narrative
RPD= Relative Percent Difference
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC786583	Diln Fac:	1.000
Matrix:	Air	Batch#:	222833
Units (V):	ppbv	Analyzed:	05/04/15

Analyte	Result (V)	RL	Result (M)	RL
Freon 12	ND	0.50	ND	2.5
Freon 114	ND	0.50	ND	3.5
Chloromethane	ND	0.50	ND	1.0
Vinyl Chloride	ND	0.50	ND	1.3
1,3-Butadiene	ND	0.50	ND	1.1
Bromomethane	ND	0.50	ND	1.9
Chloroethane	ND	0.50	ND	1.3
Trichlorofluoromethane	ND	0.50	ND	2.8
Acrolein	ND	2.0	ND	4.6
1,1-Dichloroethene	ND	0.50	ND	2.0
Freon 113	ND	0.50	ND	3.8
Acetone	ND	2.0	ND	4.8
Carbon Disulfide	ND	0.50	ND	1.6
Isopropanol	ND	2.0	ND	4.9
Methylene Chloride	ND	0.50	ND	1.7
trans-1,2-Dichloroethene	ND	0.50	ND	2.0
MTBE	ND	0.50	ND	1.8
n-Hexane	ND	0.50	ND	1.8
1,1-Dichloroethane	ND	0.50	ND	2.0
Vinyl Acetate	ND	0.50	ND	1.8
cis-1,2-Dichloroethene	ND	0.50	ND	2.0
2-Butanone	ND	0.50	ND	1.5
Ethyl Acetate	ND	0.50	ND	1.8
Tetrahydrofuran	ND	0.50	ND	1.5
Chloroform	ND	0.50	ND	2.4
1,1,1-Trichloroethane	ND	0.50	ND	2.7
Cyclohexane	ND	0.50	ND	1.7
Carbon Tetrachloride	ND	0.50	ND	3.1
Benzene	ND	0.50	ND	1.6
1,2-Dichloroethane	ND	0.50	ND	2.0
n-Heptane	ND	0.50	ND	2.0
Trichloroethene	ND	0.50	ND	2.7
1,2-Dichloropropane	ND	0.50	ND	2.3
Bromodichloromethane	ND	0.50	ND	3.4
cis-1,3-Dichloropropene	ND	0.50	ND	2.3

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics in Air

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	EPA TO-15
Type:	BLANK	Units (M):	ug/m3
Lab ID:	QC786583	Diln Fac:	1.000
Matrix:	Air	Batch#:	222833
Units (V):	ppbv	Analyzed:	05/04/15

Analyte	Result (V)	RL	Result (M)	RL
4-Methyl-2-Pentanone	ND	0.50	ND	2.0
Toluene	ND	0.50	ND	1.9
trans-1,3-Dichloropropene	ND	0.50	ND	2.3
1,1,2-Trichloroethane	ND	0.50	ND	2.7
Tetrachloroethene	ND	0.50	ND	3.4
2-Hexanone	ND	0.50	ND	2.0
Dibromochloromethane	ND	0.50	ND	4.3
1,2-Dibromoethane	ND	0.50	ND	3.8
Chlorobenzene	ND	0.50	ND	2.3
Ethylbenzene	ND	0.50	ND	2.2
m,p-Xylenes	ND	0.50	ND	2.2
o-Xylene	ND	0.50	ND	2.2
Styrene	ND	0.50	ND	2.1
Bromoform	ND	0.50	ND	5.2
1,1,2,2-Tetrachloroethane	ND	0.50	ND	3.4
4-Ethyltoluene	ND	0.50	ND	2.5
1,3,5-Trimethylbenzene	ND	0.50	ND	2.5
1,2,4-Trimethylbenzene	ND	0.50	ND	2.5
1,3-Dichlorobenzene	ND	0.50	ND	3.0
1,4-Dichlorobenzene	ND	0.50	ND	3.0
Benzyl chloride	ND	0.50	ND	2.6
1,2-Dichlorobenzene	ND	0.50	ND	3.0
1,2,4-Trichlorobenzene	ND	0.50	ND	3.7
Hexachlorobutadiene	ND	0.50	ND	5.3
Naphthalene	ND	2.0	ND	10

Surrogate	%REC	Limits
Bromofluorobenzene	97	70-130

ND= Not Detected
RL= Reporting Limit
Result M= Result in mass units
Result V= Result in volume units

Curtis & Tompkins, Ltd.

Fixed Gas Analysis

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	ASTM D1946
Matrix:	Air	Batch#:	222690
Units:	ppmv	Received:	04/29/15
Units (Mol %):	MOL %	Analyzed:	04/29/15

Field ID: SV-18S
Type: SAMPLE
Lab ID: 266411-001
Diln Fac: 2.410
Sampled: 04/28/15

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,400	ND	0.24
Carbon Dioxide	64,000	2,400	6.4	0.24
Oxygen	120,000	2,400	12	0.24
Methane	ND	2,400	ND	0.24

Field ID: SV-16
Type: SAMPLE
Lab ID: 266411-002
Diln Fac: 2.030
Sampled: 04/28/15

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Dioxide	59,000	2,000	5.9	0.20
Oxygen	120,000	2,000	12	0.20
Methane	ND	2,000	ND	0.20

Field ID: SV-19
Type: SAMPLE
Lab ID: 266411-003
Diln Fac: 2.160
Sampled: 04/28/15

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,200	ND	0.22
Carbon Dioxide	79,000	2,200	7.9	0.22
Oxygen	90,000	2,200	9.0	0.22
Methane	ND	2,200	ND	0.22

Field ID: SV-14
Type: SAMPLE
Lab ID: 266411-004
Diln Fac: 2.080
Sampled: 04/28/15

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	100,000	2,100	10	0.21
Oxygen	12,000	2,100	1.2	0.21
Methane	5,500	2,100	0.55	0.21

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Curtis & Tompkins, Ltd.

Fixed Gas Analysis

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	ASTM D1946
Matrix:	Air	Batch#:	222690
Units:	ppmv	Received:	04/29/15
Units (Mol %):	MOL %	Analyzed:	04/29/15

Field ID: SV-10 Diln Fac: 2.100
Type: SAMPLE Sampled: 04/28/15
Lab ID: 266411-005

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	130,000	2,100	13	0.21
Oxygen	11,000	2,100	1.1	0.21
Methane	10,000	2,100	1.0	0.21

Field ID: SV-4 Diln Fac: 2.170
Type: SAMPLE Sampled: 04/28/15
Lab ID: 266411-006

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,200	ND	0.22
Carbon Dioxide	150,000	2,200	15	0.22
Oxygen	20,000	2,200	2.0	0.22
Methane	ND	2,200	ND	0.22

Field ID: SV-7 Diln Fac: 2.110
Type: SAMPLE Sampled: 04/28/15
Lab ID: 266411-007

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,100	ND	0.21
Carbon Dioxide	85,000	2,100	8.5	0.21
Oxygen	71,000	2,100	7.1	0.21
Methane	ND	2,100	ND	0.21

Field ID: SV-15 Diln Fac: 1.940
Type: SAMPLE Sampled: 04/29/15
Lab ID: 266411-008

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,900	ND	0.19
Carbon Dioxide	18,000	1,900	1.8	0.19
Oxygen	150,000	1,900	15	0.19
Methane	ND	1,900	ND	0.19

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

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Fixed Gas Analysis

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	ASTM D1946
Matrix:	Air	Batch#:	222690
Units:	ppmv	Received:	04/29/15
Units (Mol %):	MOL %	Analyzed:	04/29/15

Field ID: SV-2 Diln Fac: 1.930
Type: SAMPLE Sampled: 04/29/15
Lab ID: 266411-009

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,900	ND	0.19
Carbon Dioxide	56,000	1,900	5.6	0.19
Oxygen	88,000	1,900	8.8	0.19
Methane	ND	1,900	ND	0.19

Field ID: SV-13 Diln Fac: 2.030
Type: SAMPLE Sampled: 04/29/15
Lab ID: 266411-010

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	2,000	ND	0.20
Carbon Dioxide	77,000	2,000	7.7	0.20
Oxygen	50,000	2,000	5.0	0.20
Methane	ND	2,000	ND	0.20

Type: BLANK Diln Fac: 1.000
Lab ID: QC785955

Analyte	Result	RL	Result (Mol %)	RL
Helium	ND	1,000	ND	0.10
Carbon Dioxide	ND	1,000	ND	0.10
Oxygen	ND	1,000	ND	0.10
Methane	ND	1,000	ND	0.10

ND= Not Detected
RL= Reporting Limit
Result Mol %= Result in Mole Percent

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	ASTM D1946
Matrix:	Air	Batch#:	222690
Units:	ppmv	Analyzed:	04/29/15
Diln Fac:	1.000		

Type: BS Lab ID: QC785952

Analyte	Spiked	Result	%REC	Limits
Helium	100,000	95,970	96	70-130
Carbon Dioxide		NA		
Oxygen		NA		
Methane		NA		

Type: BSD Lab ID: QC785953

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Helium	100,000	95,700	96	70-130	0	30
Carbon Dioxide		NA				
Oxygen		NA				
Methane		NA				

NA= Not Analyzed
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	ASTM D1946
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC785954	Batch#:	222690
Matrix:	Air	Analyzed:	04/29/15
Units:	ppmv		

Analyte	Spiked	Result	%REC	Limits
Helium		NA		
Carbon Dioxide	2,000	2,004	100	70-130
Oxygen	2,000	1,885	94	70-130
Methane	2,000	2,036	102	70-130

NA= Not Analyzed

Curtis & Tompkins, Ltd.

Batch QC Report

Fixed Gas Analysis

Lab #:	266411	Location:	Bohannon
Client:	Stantec	Prep:	METHOD
Project#:	185702934	Analysis:	ASTM D1946
Field ID:	SV-18S	Units (Mol %):	MOL %
Type:	SDUP	Diln Fac:	2.410
MSS Lab ID:	266411-001	Batch#:	222690
Lab ID:	QC785964	Sampled:	04/28/15
Matrix:	Air	Received:	04/29/15
Units:	ppmv	Analyzed:	04/29/15

Analyte	MSS Result	Result	RL	Result (Mol %)	RL	RPD	Lim
Helium	<2,410	ND	2,410	ND	0.2410	NC	30
Carbon Dioxide	63,740	63,790	2,410	6.379	0.2410	0	30
Oxygen	116,200	116,100	2,410	11.61	0.2410	0	30
Methane	<2,410	ND	2,410	ND	0.2410	NC	30

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference
Result Mol %= Result in Mole Percent

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5/12/2015

Ms. Eva Hey
Stantec Consulting Corporation
1340 Treat Boulevard
Suite 300
Walnut Creek CA 94597

Project Name: Bohannan
Project #: 185702934
Workorder #: 1504542

Dear Ms. Eva Hey

The following report includes the data for the above referenced project for sample(s) received on 4/30/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 VI are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1504542

Work Order Summary

CLIENT:	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597	**BILL TO:**	Ms. Eva Hey Stantec Consulting Corporation 1340 Treat Boulevard Suite 300 Walnut Creek, CA 94597
PHONE:	925-299-9300	**P.O. #**	185702848.200.0002
FAX:	925-299-9302	**PROJECT #**	185702934 Bohannan
DATE RECEIVED:	04/30/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/12/2015		

FRACTION #	NAME	TEST
01A	SV-14	Modified TO-17 VI
02A	SV-10	Modified TO-17 VI
03A	SV-4	Modified TO-17 VI
04A	SV-7	Modified TO-17 VI
05A	Lab Blank	Modified TO-17 VI
06A	CCV	Modified TO-17 VI
07A	LCS	Modified TO-17 VI
07AA	LCSD	Modified TO-17 VI

CERTIFIED BY: Heidi Hayes DATE: 05/12/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified EPA Method TO-17 (VI Tubes)
Stantec Consulting Corporation
Workorder# 1504542

Four TO-17 VI Tube samples were received on April 30, 2015. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 'VI' sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for compound separation and detection.

A modification that may be applied to EPA Method TO-17 at the client's discretion is the requirement to transport sorbent tubes at 4 deg C. Laboratory studies demonstrate a high level of stability for VOCs on the TO-17 'VI' tube at room temperature for periods of up to 14 days. Tubes can be shipped to and from the field site at ambient conditions as long as the 14-day sample hold time is upheld. Trip blanks and field surrogate spikes are used as additional control measures to monitor recovery and background contribution during tube transport.

Since the TO-17 VI application significantly extends the scope of target compounds addressed in EPA Method TO-15 and TO-17, the laboratory has implemented several method modifications outlined in the table below. Specific project requirements may over-ride the laboratory modifications.

Requirement	***TO-17***	***ATL Modifications***
Initial Calibration	%RSD</=30% with 2 allowed out up to 40%	VOC list: %RSD</=30% with 2 allowed out up to 40% SVOC list: %RSD</=30% with 2 allowed out up to 40%
Daily Calibration	%D for each target compound within +/-30%.	Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene within +/-40%D
Audit Accuracy	70-130%	Second source recovery limits for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene = 60-140%.
Distributed Volume Pairs	Collection of distributed volume pairs required for monitoring ambient air to insure high quality.	If site is well-characterized or performance previously verified, single tube sampling may be appropriate. Distributed pairs may be impractical for soil gas collection due to configuration and volume constraints.
Analytical Precision	</=20% RPD	<30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A sampling volume of 0.200 L was used to convert ng to ug/m3 for the associated Lab Blank.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in blank (subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-17

Client Sample ID: SV-14

Lab ID#: 1504542-01A

No Detections Were Found.

Client Sample ID: SV-10

Lab ID#: 1504542-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	1.6	7.9

Client Sample ID: SV-4

Lab ID#: 1504542-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	2.1	10

Client Sample ID: SV-7

Lab ID#: 1504542-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	37	180

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Client Sample ID: SV-14
Lab ID#: 1504542-01A
EPA METHOD TO-17

File Name:	**6050508**	**Date of Extraction: NA**	**Date of Collection: 4/28/15 12:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 05:05 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	104	50-150

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Client Sample ID: SV-10
Lab ID#: 1504542-02A
EPA METHOD TO-17

File Name:	**6050509**	**Date of Extraction: NA**	**Date of Collection: 4/28/15 1:16:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 05:42 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	1.6	7.9

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	88	50-150

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Client Sample ID: SV-4
Lab ID#: 1504542-03A
EPA METHOD TO-17

File Name:	**6050510**	**Date of Extraction: NA**	**Date of Collection: 4/28/15 1:50:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 06:19 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	2.1	10

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	109	50-150

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Client Sample ID: SV-7
Lab ID#: 1504542-04A
EPA METHOD TO-17

File Name:	**6050511**	**Date of Extraction: NA**	**Date of Collection: 4/28/15 2:35:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 06:57 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	37	180

Air Sample Volume(L): 0.200
Container Type: TO-17 VI Tube

Surrogates	%Recovery	Method Limits
Naphthalene-d8	97	50-150

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Client Sample ID: Lab Blank

Lab ID#: 1504542-05A

EPA METHOD TO-17

File Name:	**6050507**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 03:17 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	5.0	Not Detected	Not Detected

Air Sample Volume(L): 0.200

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	110	50-150

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Client Sample ID: CCV
Lab ID#: 1504542-06A
EPA METHOD TO-17

File Name:	**6050502**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 11:03 AM**

Compound	%Recovery
Naphthalene	89

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	96	50-150

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Client Sample ID: LCS
Lab ID#: 1504542-07A
EPA METHOD TO-17

File Name:	**6050503**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 11:40 AM**

Compound	%Recovery	Method Limits
Naphthalene	94	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	96	50-150

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Client Sample ID: LCSD
Lab ID#: 1504542-07AA
EPA METHOD TO-17

File Name:	**6050506**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 5/5/15 02:40 PM**

Compound	%Recovery	Method Limits
Naphthalene	96	70-130

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	97	50-150

TO-17 SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

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

Project Manager: Eva Hey
Collected by: (Print and Sign) C. Melancon
Company: Stantec Email: eva.hey@stantec.com
Address: 1340 Treat Blvd. ste 300 City: Walnut Creek State: CA Zip: 94597
Phone: 925-296-2101 Fax:

Project Info:
P.O. #:
Project #: 185702934
Project Name: Bohannon

Turn Around Time:
☒ Normal
☐ Rush
specify

Reporting Units:
☐ ppmv
☐ ppbv
☐ µg/m3
☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Engraved or Stamped Tube #	Date of Collection (mm/dd/yy)	Start Time (hr:min)	End Time (hr:min)	Pre-Test Flow Rate	Post-Test Flow Rate	Volume ml	Indoor/Outdoor % RH	Indoor/Outdoor Temp	Indoor Air	Outdoor Air	Soil Vapor	Other ( )
01A	SV-14	60148954	04-28-15	1228	1231	60ml/min	60ml/min	200			☐	☐	☒	☐
02A	SV-10	60147785	↓	1313	1316	↓	↓	↓			☐	☐	☒	☐
03A	SV-4	60139970		1347	1350						☐	☐	☒	☐
04A	SV-7	60132038		1433	1435						☐	☐	☒	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐
											☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	4-29-15/1230	[signature]	4/30/15 0990
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: TO-17 for Napthelene

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		3.0C	Good	Yes No None	1504542