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December 20, 2012

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

RECEIVED

By Alameda County Environmental Health at 5:38 pm, Jan 02, 2013

Re: Third Quarter 2012 Groundwater Monitoring Report – Former Petroleum Underground Storage Tank (UST) Site David D. Bohannon Organization Property Located at 575 Paseo Grande - San Lorenzo, CA

Dear Mr. Detterman:

Enclosed for your review is the *Third Quarter 2012 Groundwater Monitoring Report* prepared by Stantec Consulting Services Inc. (Stantec) on behalf of David D. Bohannon Organization (Bohannon). The report summarizes recent groundwater monitoring and sampling conducted by Stantec at 575 Paseo Grande in San Lorenzo, California (the Site). Quarterly groundwater monitoring and reporting is being conducted by Stantec pursuant to the Alameda County Environmental Health (ACEH) letter to Bohannon dated August 31, 2012.

The fourth quarter 2012 sampling event was conducted in November 2012. Bohannon will submit a fourth quarter 2012 groundwater monitoring report to ACEH by March 1, 2013 as required by ACEH in the August 31, 2012 letter to Bohannon.

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,

CC:

Scott E. Bohannon, Senior Vice President

Mr. Chris Maxwell, Stantec Consulting Services Inc.

Mr. Andrew A. Bassak, Manatt, Phelps, and Phillips LLP

THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT David D. Bohannon Organization

575 Paseo Grande San Lorenzo, California

PN: 185702534



THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT DAVID D. BOHANNON ORGANIZATION

Limitations and Certifications December 21, 2012

Limitations and Certifications

This report was prepared in accordance with the scope of work outlined in Stantec's contract 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 David D. Bohannon Organization 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:

Mason Albrecht, P.E. #C78130

Engineering Associate

Reviewed by:

Chris Maxwell, P.G.

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 Reviewer:

Mason Albrecht, P.E. #C78130

Engineering Associate

THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT DAVID D. BOHANNON ORGANIZATION

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THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT DAVID D. BOHANNON ORGANIZATION

Introduction
December 21, 2012

1.0 Introduction

Stantec Consulting Services Inc. (Stantec; formerly SECOR) presents this groundwater monitoring report for the third quarter of 2012 which describes results of groundwater monitoring and sampling conducted on September 18, 2012 for the property located at 575 Paseo Grande, San Lorenzo, California (Site), Figure 1. This sampling event was conducted by Stantec pursuant to a letter from Alameda County Environmental Health (ACEH) to David D. Bohannon Organization (Bohannon), dated August 31, 2012, requesting additional third quarter 2012 groundwater monitoring to monitor post-remediation trends at the Site. The scope of work for the third quarter 2012 included measuring the depth to water in groundwater monitoring wells MW-1 through MW-7 and observation wells POBS-A1, POBS-B1, POBS-B2, and NOBS-B1 (Figure 2), and collecting groundwater samples for analysis of total petroleum hydrocarbons as gasoline (TPH-g) and benzene, toluene, ethylbenzene, and total xylenes, (collectively BTEX). Groundwater samples were not collected from monitoring wells MW-1, MW-5, MW-6, and MW-7 during the third quarter 2012 pursuant to the August 31, 2012 letter.

Site background information including a summary of previous Site investigations and remedial actions is included in Appendix A of this report.

THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT DAVID D. BOHANNON ORGANIZATION

Groundwater Monitoring December 21, 2012

2.0 Groundwater Monitoring

The horizontal coordinates and elevations of all Site wells were surveyed by a California licensed land surveyor on September 24, 2012 to California State Water Resources Control Board (SWRCB)

GeoTracker requirements and pursuant to technical comment #1 of the August 31, 2012 ACEH letter to Bohannon. Well construction information including top of casing elevations were updated and are shown on Table 1. The elevations in feet above mean sea level are based on the North American Vertical Datum of 1988. The vertical datum for the previous well surveys conducted in May 1996 and December 2000 was the National Geodetic Vertical Datum of 1929. The top of casing elevations in relation to mean sea level from previous surveys are lower than the September 24, 2012 survey due to the different datum reference. The top of casing elevations obtained from the September 24, 2012 survey were used to calculate groundwater elevations based on the depth-to-water measurements collected from Site monitoring wells on September 18, 2012 as described below.

Site-wide groundwater monitoring and sampling was performed on September 18, 2012, and consisted of sounding all Site monitoring wells for depth-to-water and sampling wells MW-2 through MW-4, POBS-A1, POBS-B1, POBS-B2, and NOBS-B1. Groundwater samples were not collected from monitoring wells MW-1, MW-5, MW-6, and MW-7 during the third quarter 2012 pursuant to the August 31, 2012 letter. Field data sheets are provided in Appendix B. Laboratory analytical data is reported on Table 3 and included in Appendix C. The following summarizes the data collected by Stantec in September 2012.

2.1 WATER LEVEL GAUGING

Prior to purging and sampling, the depth-to-water was measured from the top of each well casing using a water-level indicator graduated to 0.01 foot. Depth-to-groundwater measurements and surveyed wellhead top-of-casing elevations were used to calculate groundwater surface elevations in wells MW-1 through MW-7. Table 2 presents historical monitoring well groundwater elevation data for the Site.

The average depth-to-water measured at the Site on September 18, 2012 was 6.84 feet below the top of well casing with an average water-table elevation of 21.98 feet above mean sea level (amsl). A potentiometric surface map illustrating the interpreted groundwater surface elevation and flow direction on September 18, 2012 is presented on Figure 3. The hydraulic gradient across the Site was approximately 0.0024 feet per foot (ft/ft) toward the southwest.

2.2 GROUNDWATER SAMPLING

On September 18, 2012, wells were purged and sampled using a low-flow purging method consisting of dedicated well tubing attached to a variable speed peristaltic pump set to extract groundwater at a rate of approximately 200 milliliters per minute (mL/min). Temperature, conductivity, pH, dissolved oxygen (DO)

THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT DAVID D. BOHANNON ORGANIZATION

Groundwater Monitoring December 21, 2012

content, and oxidation/reduction potential (ORP) were monitored using a flow-through cell during purging to confirm stable water conditions prior to sampling. Observations of water color and odor were also recorded during purging. Copies of field data sheets are attached as Appendix B.

Samples were collected from each well using the dedicated tubing to eliminate the possibility of cross-contamination between wells. Samples were placed in laboratory-supplied sample containers, labeled, and stored on ice pending delivery to TestAmerica, a California state accredited lab located in Pleasanton, California. The groundwater samples were analyzed for gasoline range organics (C5-C12) and BTEX by United States Environmental Protection Agency (U.S. EPA) Method 8260B.

2.2.1 Quality Assurance/Quality Control Procedures

Analytical data were evaluated for accuracy and precision based on field and laboratory quality assurance and quality control (QA/QC) performance.

Duplicate Sample

One duplicate sample was collected during the third quarter 2012 sampling event from monitoring well MW-3. The analysis of field duplicate samples is a measure of both field and analytical precision.

Holding Times

The laboratory QA/QC includes checking adherence to holding times. Holding times are established by the U.S. EPA and refer to the maximum allowable time to pass between sample collection and analysis by the laboratory. All analyses were performed within the holding times specified by the U.S. EPA.

Control Spikes and Method Blanks

The laboratory control spike (LCS) and matrix spike (MS) recovery results and method blank (MB) results were used to assess accuracy of the analytical data. The analytical program included four LCSs and five LCS duplicates, one MS and MS duplicate pair, and two MBs. The spike recovery results were within the prescribed range of acceptable limits for analytical accuracy in all cases. The data are included in Appendix C.

THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT DAVID D. BOHANNON ORGANIZATION

Results December 21, 2012

3.0 Results

The following presents a discussion of results of the September 2012 groundwater monitoring conducted at the Site.

3.1 GROUNDWATER ANALYTICAL RESULTS

Petroleum hydrocarbon chemical data for the September 2012 events are shown in Table 3 and illustrated on Figure 4. Laboratory analytical reports are included in Appendix C. Historical concentration trends for TPHg and benzene in select groundwater monitoring wells including MW-2, MW-3, MW-4, and POBS-A1 are included in Appendix D.

The TPHg result from on-site monitoring well MW-2 was slightly above the May 2012 sampling event. The concentrations of benzene in this well decreased from the May 2012 event. Concentrations of these compounds remain well below historical concentrations for MW-2. Toluene, ethylbenzene, and xylenes were not detected above the MRLs during the September 2012 sampling of well MW-2.

Sample analytical results from off-site well MW-4 show that concentrations decreased from June 2012 by over fifty-percent. For example, TPHg and benzene decreased from 3,400 μ g/L and 83 μ g/L, respectively in June 2012, to 1,400 μ g/L and 25 μ g/L in September 2012.

The concentrations of all petroleum hydrocarbons in well POBS-A1 increased from the May 2012 sampling event. The September 2012 benzene concentration in MW-2 (1,100 μ g/L) is equal to the concentration observed during the post-DPE sampling event in January 2010.

The concentrations of petroleum hydrocarbons in the primary and duplicate samples from monitoring well MW-3, located approximately 14 feet downgradient of POBS-A1, also increased from the May 2012 sampling event (most petroleum hydrocarbon concentrations in MW-3 were below MRLs in May 2012). Petroleum hydrocarbon concentrations in MW-3 remain well below historical concentrations.

THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT DAVID D. BOHANNON ORGANIZATION

Conclusions
December 21, 2012

4.0 Conclusions

The following presents a discussion of the most significant results of the third quarter 2012 monitoring and sampling event conducted in September 2012:

- □ As indicated by the sample analytical results for well POBS-A1 and MW-3, the concentrations of TPHg and BTEX in groundwater within and immediately downgradient of the former UST area increased compared to the May 2012 sampling event. The September 2012 concentrations remain substantially below historical values pre-remediation. The concentrations will be monitored during the fourth quarter 2012 monitoring and sampling event.
- □ Compared to the second quarter 2012 monitoring and sampling event in May 2012, petroleum hydrocarbon concentrations appear to be stable in on-site monitoring well MW-2 and decreasing in off-site monitoring well MW-4. The September 2012 concentrations remain substantially below historical values pre-remediation.

TABLES

December 21, 2012

Third Quarter 2012 Groundwater Monitoring Report
David D. Bohannon Organization
575 Paseo Grande
San Lorenzo, California
Stantec PN: 185702534

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 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
Historical Groundwater Elevations
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

| | TOC Elevation ¹ | DTW | Groundwater Elevation |
|------------------------|----------------------------|-----------|-----------------------|
| Date Sampled | (ft amsl) | (ft BTOC) | (ft amsl) |
| MW-1 | (it dirioi) | (11 100) | (it diriol) |
| 5/17/1996 | 27.11 | 5.65 | 21.46 |
| 10/8/1996 | _, | 7.47 | 19.64 |
| 4/1/1997 | | 6.27 | 20.84 |
| 6/12/1997 | | 6.90 | 20.21 |
| 9/10/1997 | | 7.48 | 19.63 |
| 6/8/1999 | | 6.44 | 20.67 |
| 9/13/1999 | | 7.56 | 19.55 |
| 12/21/1999 | | 7.41 | 19.70 |
| 3/17/2000 | | 5.35 | 21.76 |
| 12/5/2000 | 26.98 | 6.99 | 19.99 |
| 2/28/2001 | 20.30 | 5.71 | 21.27 |
| 8/22/2001 | | 7.39 | 19.59 |
| 5/22/2001 | | 6.25 | 20.73 |
| 8/29/2002 | | 7.23 | 19.75 |
| 12/2/2002 | | 7.13 | 19.85 |
| 3/4/2003 | | 5.77 | 21.21 |
| 12/18/2003 | | 6.37 | 20.61 |
| 4/13/2004 | | 6.13 | 20.85 |
| 12/2/2004 | | 6.93 | 20.05 |
| 5/27/2005 | | 5.90 | 20.05 |
| | | 6.79 | 20.19 |
| 8/24/2006 1/13/2010 | | 6.59 | 20.19 |
| 5/3/2010 5/3/2012 | | 5.92 | |
| | 20.77 | 7.32 | 21.06 |
| 9/18/2012 | 29.77 | 1.32 | 22.45 |
| MW-2 | | | |
| 5/17/1996 | 26.73 | 5.56 | 21.17 |
| 10/8/1996 | 20.70 | 7.15 | 19.58 |
| 4/1/1997 | | 6.61 | 20.12 |
| 6/12/1997 | | 6.76 | 19.97 |
| 9/10/1997 | | 7.19 | 19.54 |
| 6/8/1999 | | 6.45 | 20.28 |
| 9/13/1999 | | 7.46 | 19.27 |
| 12/21/1999 | | 7.26 | 19.47 |
| 3/17/2000 | | 5.56 | 21.17 |
| 12/5/2000 | 26.73 | 7.01 | 19.72 |
| 2/28/2001 | | 5.81 | 20.92 |
| 8/22/2001 | | 7.42 | 19.31 |
| 5/22/2002 | | 6.40 | 20.33 |
| 8/29/2002 | | 7.26 | 19.47 |
| 12/2/2002 | | 7.02 | 19.71 |
| 3/4/2003 | | 5.91 | 20.82 |
| 12/18/2003 | | 6.47 | 20.26 |
| 4/13/2004 | | 6.28 | 20.45 |
| 12/2/2004 | | 6.80 | 19.93 |
| 5/27/2005 | | 6.11 | 20.62 |
| 8/24/2006 | | 6.90 | 19.83 |
| 1/13/2010 | | 6.53 | 20.20 |
| 5/3/2012 | | 6.17 | 20.56 |
| 9/18/2012 | 29.54 | 7.37 | 22.17 |
| 5/10/2012 | 20.04 | 7.07 | <u></u> 17 |
| | | <u> </u> | |

TABLE 2
Historical Groundwater Elevations
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

| | TOC Elevation ¹ | DTW | Groundwater Elevation |
|--------------|----------------------------|-----------|-----------------------|
| Date Sampled | (ft amsl) | (ft BTOC) | (ft amsl) |
| MW-3 | | | |
| 5/17/1996 | 26.15 | 4.39 | 21.76 |
| 10/8/1996 | | 6.82 | 19.33 |
| 4/1/1997 | | 5.53 | 20.62 |
| 6/12/1997 | | 6.18 | 19.97 |
| 9/10/1997 | | 6.81 | 19.34 |
| 6/8/1999 | | 5.74 | 20.41 |
| 9/13/1999 | | 6.88 | 19.27 |
| 12/21/1999 | | 6.66 | 19.49 |
| 3/17/2000 | | 4.51 | 21.64 |
| 12/5/2000 | 26.55 | 6.84 | 19.71 |
| 2/28/2001 | _0.00 | 5.44 | 21.11 |
| 8/22/2001 | | 7.29 | 19.26 |
| 5/22/2002 | | 6.22 | 20.33 |
| 8/29/2002 | | 7.26 | 19.29 |
| 12/2/2002 | | 6.85 | 19.70 |
| 3/4/2003 | | 5.72 | 20.83 |
| 12/18/2003 | | 6.15 | 20.40 |
| 4/13/2004 | | 5.97 | 20.58 |
| 12/2/2004 | | 6.64 | 19.91 |
| 5/27/2005 | | 5.74 | 20.81 |
| 8/23/2006 | | 6.69 | 19.86 |
| 1/13/2010 | | 6.08 | 20.47 |
| 5/3/2012 | | 5.72 | 20.47 |
| 9/18/2012 | 29.34 | 7.18 | 20.63 |
| 9/10/2012 | 29.34 | 7.10 | 22.10 |
| MW-4 | | | |
| 12/5/2000 | 25.87 | 6.28 | 19.59 |
| 2/28/2001 | _0.0. | 4.99 | 20.88 |
| 8/22/2001 | | 6.73 | 19.14 |
| 5/22/2002 | | 5.50 | 20.37 |
| 8/29/2002 | | 6.55 | 19.32 |
| 12/2/2002 | | 6.28 | 19.59 |
| 3/4/2003 | | 5.28 | 20.59 |
| 12/18/2003 | | 5.85 | 20.02 |
| 4/13/2004 | | 5.50 | 20.02 |
| 12/2/2004 | | 6.05 | 19.82 |
| 5/27/2005 | | 5.46 | 20.41 |
| 8/24/2006 | | 6.15 | 19.72 |
| 1/13/2010 | | 5.78 | 20.09 |
| 5/3/2012 | | 5.78 | 20.49 |
| 6/8/2012 | | 5.87 | 20.49 |
| 9/18/2012 | 20 64 | | 21.99 |
| 9/10/2012 | 28.64 | 6.65 | 21.99 |
| | | | |

TABLE 2
Historical Groundwater Elevations
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

| | TOC Elevation ¹ | DTW | Groundwater Elevation |
|--------------|----------------------------|-----------|-----------------------|
| Date Sampled | (ft amsl) | (ft BTOC) | (ft amsl) |
| MW-5 | | | |
| 12/5/2000 | 25.77 | 6.25 | 19.52 |
| 2/28/2001 | - | 4.95 | 20.82 |
| 8/22/2001 | | 6.69 | 19.08 |
| 5/22/2002 | | 5.50 | 20.27 |
| 8/29/2002 | | 6.54 | 19.23 |
| 12/2/2002 | | 6.37 | 19.40 |
| 3/4/2003 | | 5.41 | 20.36 |
| | | 5.65 | 20.36 |
| 12/18/2003 | | | |
| 4/13/2004 | | 5.37 | 20.40 |
| 12/2/2004 | | 6.03 | 19.74 |
| 5/27/2005 | | 5.46 | 20.31 |
| 8/24/2006 | | 6.17 | 19.60 |
| 1/13/2010 | | 5.72 | 20.05 |
| 5/3/2012 | | 5.52 | 20.25 |
| 9/18/2012 | 28.56 | 6.67 | 21.89 |
| | | | |
| MW-6 | | | |
| 12/5/2000 | 24.89 | 5.68 | 19.21 |
| 2/28/2001 | | 4.35 | 20.54 |
| 8/22/2001 | | 6.15 | 18.74 |
| 5/22/2002 | | 4.91 | 19.98 |
| 8/29/2002 | | 5.96 | 18.93 |
| 12/2/2002 | | 5.70 | 19.19 |
| 3/4/2003 | | 4.69 | 20.20 |
| 12/18/2003 | | 5.05 | 19.84 |
| 4/13/2004 | | 4.87 | 20.02 |
| 12/2/2004 | | 5.42 | 19.47 |
| 5/27/2005 | | 4.75 | 20.14 |
| 8/24/2006 | | 5.57 | 19.32 |
| 1/13/2010 | | 5.17 | 19.72 |
| 5/3/2012 | | 4.82 | 20.07 |
| 9/18/2012 | 27.70 | 6.10 | 21.60 |
| 9/10/2012 | 21.10 | 0.10 | 21.00 |
| MW-7 | | | |
| 12/5/2000 | 25.43 | 6.43 | 19.00 |
| 2/28/2001 | 20.10 | 4.76 | 20.67 |
| 8/22/2001 | | 6.95 | 18.48 |
| 5/22/2001 | | 5.55 | 19.88 |
| 8/29/2002 | | NM | 19.00 |
| | | 6.43 | 19.00 |
| 12/2/2002 | | | |
| 3/4/2003 | | 5.10 | 20.33 |
| 12/18/2003 | | 5.65 | 19.78 |
| 4/13/2004 | | 5.27 | 20.16 |
| 12/2/2004 | | 6.15 | 19.28 |
| 5/27/2005 | | 5.12 | 20.31 |
| 8/24/2006 | | 6.28 | 19.15 |
| 1/13/2010 | | 5.97 | 19.46 |
| 5/4/2012 | | 5.20 | 20.23 |
| 9/18/2012 | 28.22 | 6.60 | 21.62 |

TABLE 2 Historical Groundwater Elevations David D. Bohannon Organization 575 Paseo Grande, San Lorenzo, CA

| | TOC Elevation ¹ | DTW | Groundwater Elevation |
|--------------|----------------------------|-----------|------------------------------|
| Date Sampled | (ft amsl) | (ft BTOC) | (ft amsl) |

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 3
Groundwater Analytical Results - September 2012 and Historical
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

| | TPH-G | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Chromium | Dissolved Inorganic Lead |
|-----------------|------------------|---------|-----------|---|---------------|--------|----------|--------------------------|
| Date Sampled | (µg/L) | (µg/L) | (µg/L) | (μg/L) | (μg/L) | (µg/L) | (µg/L) | (μg/L) |
| Groundwater Mor | nitoring We | | · · · · · | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , , | | | ,, , |
| MW-1 | • | | | | | | | |
| 5/17/1996 | 1,100 | < 0.5 | 8.7 | 7.4 | 17 | | <10 | <50 |
| 10/8/1996 | 120 | < 0.5 | < 0.5 | 2.7 | <0.5 | | | |
| 4/1/1997 | 550 | < 0.5 | < 0.5 | 7.6 | 6.6 | | | |
| 6/12/1997 | 160 | < 0.5 | < 0.5 | 2.9 | 1.7 | | | |
| 9/10/1997 | 640 | 2.2 | 3.8 | 7.4 | 16 | | | |
| 6/8/1999 | <50 | < 0.5 | < 0.5 | <0.5 | <0.5 | <10 | <10 | <20 |
| 9/13/1999 | <50 | < 0.5 | < 0.5 | < 0.5 | 1.1 | | | <5 |
| 12/21/1999 | <50 | < 0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 3/17/2000 | <50 | < 0.5 | < 0.5 | <0.5 | 0.79 | <5 | | <5 |
| 12/5/2000 | <50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | | |
| 2/28/2001 | <50 | < 0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 8/22/2001 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | <5 | | <5 |
| 5/22/2002 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | |
| 8/29/2002 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | |
| 12/2/2002 | <50 | < 0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 3/4/2003 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | |
| 12/18/2003 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | |
| 4/13/2004 | <50 | < 0.5 | < 0.5 | <0.5 | <1.0 | | | |
| 6/18/2004 | 150 | 1.5 | < 0.5 | 2.7 | 2.4 | | | |
| 5/27/2005 | <50 | 1.6 | < 0.5 | < 0.5 | < 0.5 | | | |
| 8/24/2006 | <50 | < 0.5 | < 0.5 | < 0.5 | <1.0 | | | |
| 1/13/2010 | <50 | < 0.5 | < 0.5 | <0.5 | <1.0 | | | |
| 5/3/2012 | <50 | < 0.5 | < 0.5 | <0.5 | <1.0 | | | |
| MW-2 | | | | | | | | |
| 5/17/1996 | 23,000 | 900 | 330 | 650 | 1,500 | | <10 | <50 |
| 10/8/1996 | 8,400 | 530 | <50 | 400 | 360 | | | |
| 4/1/1997 | 7,600 | 470 | 64 | 210 | 250 | | | |
| 6/12/1997 | 8,200 | 440 | 52 | 190 | 190 | | | |
| 9/10/1997 | 8,500 | 390 | 51 | 220 | 240 | | | |
| 6/8/1999 | 2,100 | 240 | 8 | 33 | 40 | <10 | <10 | 33 |
| 9/13/1999 | 1,300 | 120 | <5 | <5 | 15 | | | |
| 12/21/1999 | 1,400 | 110 | 5.6 | 11 | 17 | | | <5 |
| 3/17/2000 | 1,200 | 180 | 19 | 28 | 31 | <50 | | <5 |
| 12/5/2000 | 800 | 75 | 1.8 | 11 | 14 | | | |
| 2/28/2001 | 1,200 | 120 | 7.1 | 19 | 27 | | | |
| 8/22/2001 | 990 | 75 | 3.5 | 8.9 | 8.1 | <5 | | <5 |
| 5/22/2002 | 1,700 | 230 | 12 | 12 | 25 | | | |
| 8/29/2002 | 1,000 | 66 | 2.6 | 12 | 12 | | | |
| 12/2/2002 | 1,100 | 76 | 8.7 | 11 | 17 | | | |
| 3/4/2003 | 1,100 | 130 | 4.5 | 22 | 24 | | | |
| 12/18/2003 | 910 | 55 | 4.1 | 3.3 | 3.7 | | | |
| 4/13/2004 | 2,700 | 350 | 15 | 18 | 24 | | | |
| 10/5/2004 | 2,000 | 120 | 5.5 | <2.5 | 8.3 | | | |
| 5/27/2005 | 5,700 | 450 | 53 | 240 | 71 | | | |
| 8/24/2006 | 1,400 | 90 | 4.7 | 16 | 21 | | | |
| 1/13/2010 | 130 ^J | 1.2 | < 0.5 | <0.5 | <1.0 | | | |
| 5/3/2012 | 350 | 22 | < 0.5 | 2.1 | <1.0 | | | |
| 9/18/2012 | 410 | 4.7 | < 0.5 | <0.5 | <1.0 | | | |

TABLE 3
Groundwater Analytical Results - September 2012 and Historical
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

| | TPH-G | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Chromium | Dissolved Inorganic Lead |
|--------------|----------------|---------|-------------------|-------------------|-------------------|---------|----------|--------------------------|
| Date Sampled | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| MW-3 | (µg/ =) | (μg/ Ξ/ | (µg/=/ | (μg/ Ξ/ | (µg/ =) | (µg/ =) | (μg/ Ξ) | (μg, Ξ) |
| 5/17/1996 | 6,700 | 140 | 45 | 210 | 180 | | <10 | <50 |
| 10/8/1996 | 1,800 | 2,700 | 240 | 910 | 970 | | | |
| 4/1/1997 | 27,000 | 520 | 50 | 520 | 450 | | | |
| 6/12/1997 | 29,000 | 2,700 | 160 | 940 | 500 | | | |
| 9/10/1997 | 290,000 | 1,800 | 3,200 | 2,800 | 6,900 | | | |
| 6/8/1999 | 1,700 | 320 | 6.4 | 15 | <0.5 | <10 | <10 | 24 |
| 9/13/1999 | 5,400 | 1,000 | <20 | <20 | <20 | | | |
| 12/21/1999 | 8,800 | 1,400 | 63 | 17 | 23 | | | <5 |
| 3/17/2000 | 1,500 | 190 | <5 | 7.6 | <5 | <50 | | <5 |
| 12/5/2000 | 5,400 | 790 | 20 | 7.4 | 10 | | | |
| 2/28/2001 | 3,600 | 850 | 15 | 25 | 10 | | | |
| 8/22/2001 | 8,100 | 1,600 | 28 | 44 | 17 | <50 | | <5 |
| 5/22/2002 | 5,400 | 1,000 | 32 | 13 | 21 | | | |
| 8/29/2002 | 6,700 | 1,700 | 55 | 49 | 38 | | | |
| 12/2/2002 | 5,700 | 650 | 17 | 37 | 33 | | | |
| 3/4/2003 | 5,000 | 650 | 18 | 42 | 27 | | | |
| 12/18/2003 | 5,200 | 910 | 25 | 20 | 21 | | | |
| 4/13/2004 | 3,900 | 1,200 | 19 | <5.0 | <10 | | | |
| 6/18/2004 | 4,300 | 1,600 | 40 | 81 | 26 | | | |
| 8/27/2004 | 6,900 | 2,100 | 59 | 220 | <50 | | | |
| 10/5/2004 | 9,800 | 2,500 | 52 | 160 | 38 | | | |
| 12/2/2004 | 8,300 | 2,400 | 41 | 200 | 29 | | | |
| 12/14/2004 | 15,000 | 3,600 | 140 | 560 | 210 | | | |
| 5/27/2005 | 5,500 | 840 | 36 | 210 | 41 | | | |
| 8/23/2006 | 1,700 | 190 | 5.3 | 51 | <10 | | | |
| 1/13/2010 | <50 | 2 | <0.5 | <0.5 | <1.0 | | | |
| 5/3/2012 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 9/18/2012 | 480/440 | 110/100 | 2.6/2.4 | 0.66/0.62 | 1.2/1.1 | | | |
| MW-4 | 100/ 110 | 110,100 | 210/211 | 0.00/0.02 | | | | |
| 12/5/2000 | 3,900 | 320 | 13 | 41 | 31 | | | <5 |
| 2/28/2001 | 3,400 | 250 | 14 | 44 | 22 | | | <5 |
| 8/22/2001 | 4,800 | 260 | 12 | 27 | 9 | <50 | | <5 |
| 5/22/2002 | 5,100 | 320 | 29 | 74 | 50 | | | |
| 8/29/2002 | 3,700 | 260 | <5 | 30 | 28 | | | |
| 12/2/2002 | 5,100 | 250 | 8.9 | 26 | 22 | | | |
| 3/4/2003 | 4,500 | 170 | 18 | 63 | 47 | | | |
| 12/18/2003 | 2,900 | 160 | 8.3 | 8 | <5 | | | |
| 4/13/2004 | 7,400 | 290 | 29 | 110 | 100 | | | |
| 6/18/2004 | 2,700 | 140 | 12 | 36 | 16 | | | |
| 8/27/2004 | 460 | 19 | 1.2 | 1.1 | 1.5 | | | |
| 10/5/2004 | 460 | 19 | <1.0 | <1.0 | <1.0 | | | |
| 12/2/2004 | 2,800 | 120 | 5.4 | 8.3 | 5.3 | | | |
| 5/27/2005 | 7,300 | 350 | 37 | 100 | 50 | | | |
| 8/24/2006 | 2,400 | 59 | 8.2 | 19 | 14 | | | |
| 1/14/2010 | 400 J | 1.6 | < 0.5 | <0.5 | <1.0 | | | |
| 5/3/2012 | 400 6,800 | 1.6 | <0.5 26 | <0.5 15 | <1.0 25 | | | - |
| 6/8/2012 | 3,400 | 83 | 26 11 | 7.1 | 25 11 | <0.50 | | |
| | 3,400 1,400 | | | | | <0.50 | | |
| 9/18/2012 | 1,400 | 25 | 4.2 | 1.2 | 3.6 | | | |

TABLE 3
Groundwater Analytical Results - September 2012 and Historical
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

| | TPH-G | Benzene | Toluene | Fthylhenzene | Total Xylenes | MTBE | Chromium | Dissolved Inorganic Lead |
|------------------|------------|-------------|-----------|--------------|---------------|--------|----------|--------------------------|
| Date Sampled | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| MW-5 | (µg/=/ | (µg/ =) | (µg/2) | (µg/ =) | (μg/ L) | (µg/L) | (μg/ Ξ) | (μg, ε) |
| 12/5/2000 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | <5 |
| 2/28/2001 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | <5 |
| 8/22/2001 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | <5 | | <5 |
| 5/22/2002 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | |
| 8/29/2002 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| 12/2/2002 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| 3/4/2003 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| 12/18/2003 | <50 | <0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 4/13/2004 | <50 | <0.5 | < 0.5 | <0.5 | <1.0 | | | |
| 12/2/2005 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 5/27/2005 | <50 | <0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 8/24/2006 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 1/14/2010 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 5/3/2012 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| MW-6 | \00 | ٧٥.٥ | νο.σ | νο.σ | \1.0 | | | |
| 12/5/2000 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | | | <5 |
| 2/28/2001 | | | | | | | | |
| | <50 | < 0.5 | <0.5 | <0.5 | <0.5 | -E | | <5 .F |
| 8/22/2001 | <50 | < 0.5 | < 0.5 | <0.5 | <0.5 | <5 | | <5 |
| 5/22/2002 | <50 | <0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 8/29/2002 | <50 | <0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 12/2/2002 | <50 | <0.5 | < 0.5 | <0.5 | <0.5 | | | |
| 3/4/2003 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| 12/18/2003 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| 4/13/2004 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 12/2/2004 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 5/27/2005 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | | | |
| 8/24/2006 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 1/13/2010 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 5/3/2012 | <50 | < 0.5 | < 0.5 | <0.5 | <1.0 | | | |
| MW-7 | | | | | | | | |
| 12/5/2000 | <50 | < 0.5 | < 0.5 | <0.5 | 1.5 | | | <5 |
| 2/28/2001 | <50 | < 0.5 | < 0.5 | <0.5 | 6.7 | | | <5 |
| 8/22/2001 | <50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <5 | | <5 |
| 5/22/2002 | <50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | | |
| 12/2/2002 | <50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | | |
| 3/4/2003 | <50 | < 0.5 | < 0.5 | <0.5 | < 0.5 | | | |
| 12/18/2003 | <50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | | | |
| 4/13/2004 | <50 | < 0.5 | < 0.5 | <0.5 | <1.0 | | | |
| 12/2/2004 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 5/27/2005 | <50 | <0.5 | < 0.5 | < 0.5 | < 0.5 | | | |
| 8/24/2006 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 1/13/2010 | <50 | < 0.5 | < 0.5 | <0.5 | <1.0 | | | |
| 5/4/2012 | <50 | < 0.5 | < 0.5 | <0.5 | <1.0 | | | |
| Peroxide Treatme | | Zone Inject | ion Wells | | | | | |
| PIW-A1 | | | | | | | | |
| 5/13/2004 | 6,800 | 460 | 50 | 31 | 300 | | | |
| 6/18/2004 | 240 | 10 | 2.1 | 4 | 11 | | | |
| 8/27/2004 | 220 | 14 | 1.2 | 2 | 5 | | | |
| 10/5/2004 | <50 | <0.5 | < 0.5 | <0.5 | <1.0 | | | |
| 12/2/2004 | 640 | 63 | 12.0 | 15 | 29 | | | |
| PIW-A2 | | | | | | | | |
| 5/13/2004 | 20,000 | 1,500 | 460 | 760 | 2,600 | | | |
| 6/18/2004 | 2,800 | 150 | 14 | 6.5 | 90 | | | |
| 8/27/2004 | 500 | 34 | 3 | 4.4 | 12 | | | |
| 12/2/2004 | 350 | 6.1 | 1.2 | 2.4 | 5.4 | | | |
| PIW-A3 | -30 | | | | | | | |
| 12/14/2004 | 1,500 | 220 | 28 | 55 | 99 | | | |
| ,, _ 00 1 | .,500 | | | | | | I. | l . |

TABLE 3
Groundwater Analytical Results - September 2012 and Historical
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

| | TPH-G | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Chromium | Dissolved Inorganic Lead |
|---------------------|--------------------|-----------|--------------|--------------|---------------|----------|----------|--------------------------|
| Date Sampled | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| Peroxide Treatme | | | | (F-9, =) | (F-9' = / | (F-9: -) | (4-9, -) | ([2] |
| PIW-B1 | | 1 | | | | | | |
| 5/13/2004 | 1,900 | 28 | < 5.0 | 11 | 51 | | | |
| 6/18/2004 | 270 | 22 | 1 | 2.2 | 2.7 | | | |
| 8/27/2004 | 230 | 11 | 0.85 | 1.7 | 4.3 | | | |
| 12/2/2002 | 66 | < 0.5 | <0.5 | <0.5 | <1.0 | | | |
| PIW-B3 | | | | | | | | |
| 5/13/2004 | 3,300 | 420 | 17 | 7.8 | 44 | | | |
| 6/18/2004 | 180 | 1.2 | < 0.5 | <0.5 | 2.4 | | | |
| 8/27/2004 | 230 | 20.0 | 0.93 | 3.3 | 2.9 | | | |
| 12/2/2004 | 64 | 0.75 | < 0.5 | < 0.5 | <1.0 | | | |
| Peroxide Treatme | nt Area - A | Zone Obse | rvation Well | ls | | | | |
| POBS-A1 | | | | | | | | |
| 5/13/2004 | 16,000 | 2,200 | 220 | 480 | 980 | | | |
| 6/18/2004 | 11,000 | 2,200 | 150 | 120 | 820 | | | |
| 8/27/2004 | 23,000 | 2,900 | 140 | 180 | 470 | | | |
| 10/5/2004 | 13,000 | 2,400 | 83 | 130 | 94 | | | |
| 12/2/2004 | 17,000 | 3,500 | 240 | 210 | 730 | | | |
| 12/14/2004 | 13,000 | 2,700 | 200 | 220 | 510 | | | |
| 5/27/2005 | 9,600 | 1,200 | 62 | 110 | 180 | | | |
| 8/24/2006 | 8,500 | 1,700 | 58 | 120 | 100 | | | |
| 1/13/2010 | 7,300 ^J | 1,100 | 29 | 53 | 42 | | | |
| 5/4/2012 | 540 | 110 | 2.0 | 1.4 | <1.0 | | | |
| 9/18/2012 | 2,600 | 1,100 | 27 | 8.3 | 18 | | | |
| Peroxide Treatme | nt Área - E | Zone Obse | rvation Well | ls | | | | |
| POBS-B1 | | | | | | | | |
| 5/13/2004 | 11,000 | 250 | 71 | 160 | 590 | | | |
| 6/18/2004 | 3,500 | 9.8 | < 0.5 | 0.8 | 13 | | | |
| 8/27/2004 | 500 | 1.4 | <0.5 | <0.5 | <1.0 | | | |
| 12/2/2004 | 190 | 2.6 | <0.5 | <0.5 | <1.0 | | | |
| 5/27/2005 | 68 | 17.0 | <0.5 | 1.6 | 0.52 | | | |
| 8/24/2006 | 50 | 1.1 | < 0.5 | < 0.5 | < 1.0 | | | |
| 5/4/2012 | <50 | 0.80 | < 0.5 | < 0.5 | < 1.0 | | | |
| 9/18/2012 | <50 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | | | |
| POBS-B2 | | | | | | | | |
| 5/13/2004 | 4,500 | 150 | 23 | 11 | 120 | | | |
| 6/18/2004 | 97 | 7.4 | 0.8 | 1.6 | 1.7 | | | |
| 8/27/2004 | 240 | 36.0 | 1.6 | 6.7 | 4.2 | | | |
| 12/2/2004 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 5/27/2005 | 97 | 33.0 | 0.56 | 1.3 | 0.74 | | | |
| 8/24/2006 | 57 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | | | |
| 5/3/2012 | 83 | 8.8 | < 0.5 | < 0.5 | < 1.0 | | | |
| 9/18/2012 | <50 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | | | |
| Nitrate Injection A | | | | 1 3.3 | | | | |
| NIW-A1 | | , | | | | | | |
| 5/13/2004 | 9,300 | 1,800 | 59 | 250 | 96 | | | |
| 6/18/2004 | 3,100 | 340 | 22 | 93 | 55 | | | |
| 8/27/2004 | 250 | 13 | 1.4 | 6 | 5.7 | | | |
| 10/5/2004 | 1,700 | 150 | <5.0 | 24 | 12 | | | |
| 12/2/2004 | 1,400 | 28 | 6.2 | 10 | 23 | | | |
| 5/27/2005 | 14,000 | 1,300 | 61.0 | 680 | 300 | | | |
| NIW-A2 | ,500 | .,500 | 2.10 | | | | | |
| 5/13/2004 | 970 | 18 | <2.5 | <2.5 | 4 | | | |
| 6/18/2004 | 200 | 6.4 | 1.7 | 2.1 | 3.5 | | | |
| 8/27/2004 | <500 | 6.3 | <5.0 | <5.0 | <10 | | | |
| 12/2/2004 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | | | |
| 5/27/2005 | 550 | 14.0 | 0.7 | 1.8 | 0.93 | | | |
| 5,21,2000 | 550 | . 1.0 | 5.7 | | 3.30 | | i . | <u>I</u> |

TABLE 3 Groundwater Analytical Results - September 2012 and Historical David D. Bohannon Organization 575 Paseo Grande, San Lorenzo, CA

| | TPH-G | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | Chromium | Dissolved Inorganic Lead |
|---|------------|---------------|---------|--------------|---------------|--------|----------|--------------------------|
| Date Sampled | (μg/L) | (μg/L) | (µg/L) | (μg/L) | (μg/L) | (µg/L) | (μg/L) | (μg/L) |
| Nitrate Injection Area - B Zone Injection Wells | | Wells | | | | | | |
| NIW-B1 | | | | | | | | |
| 5/13/2004 | 170 | 6.5 | 1.1 | 2.4 | 8.0 | | | |
| 6/18/2004 | 160 | 2.9 | 0.7 | 2.6 | 2.5 | | | |
| 8/27/2004 | 110 | 6.9 | < 0.5 | 1.4 | 2.0 | | | |
| 12/2/2004 | <50 | < 0.5 | < 0.5 | < 0.5 | <1.0 | | | |
| NIW-B2 | | | | | | | | |
| 5/13/2004 | 260 | 8.9 | 1.5 | 4 | 8.4 | | | |
| 6/18/2004 | 120 | 1.0 | < 0.5 | 1.1 | <1 | | | |
| 8/27/2004 | 120 | 4.4 | < 0.5 | 1.1 | 1.6 | | | |
| 12/2/2004 | <50 | < 0.5 | < 0.5 | < 0.5 | <1.0 | | | |
| Nitrate Injection A | rea - Obse | ervation Well | s | | | | | |
| NOBS-B1 | | | | | | | | |
| 5/13/2004 | 120 | 4.6 | 0.8 | 2.3 | 5.4 | | | |
| 6/18/2004 | 88 | 1.9 | 0.7 | 1.7 | <1 | | | |
| 8/27/2004 | 180 | 5.5 | 0.53 | 0.99 | 1.6 | | | |
| 12/2/2004 | <50 | 2.0 | < 0.5 | < 0.5 | <1.0 | | | |
| 8/24/2006 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | | | |
| 5/3/2012 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | | | |
| 9/18/2012 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | | | |

Abbreviations:

 $\mu g/L = micrograms per liter$

MTBE = methyl tert-butyl ether

TPH-G = Total Petroleum Hydrocarbons, Gasoline Range
-- = water sample not analyzed for specified constituents

Notes:

Bold indicates detected concentration.

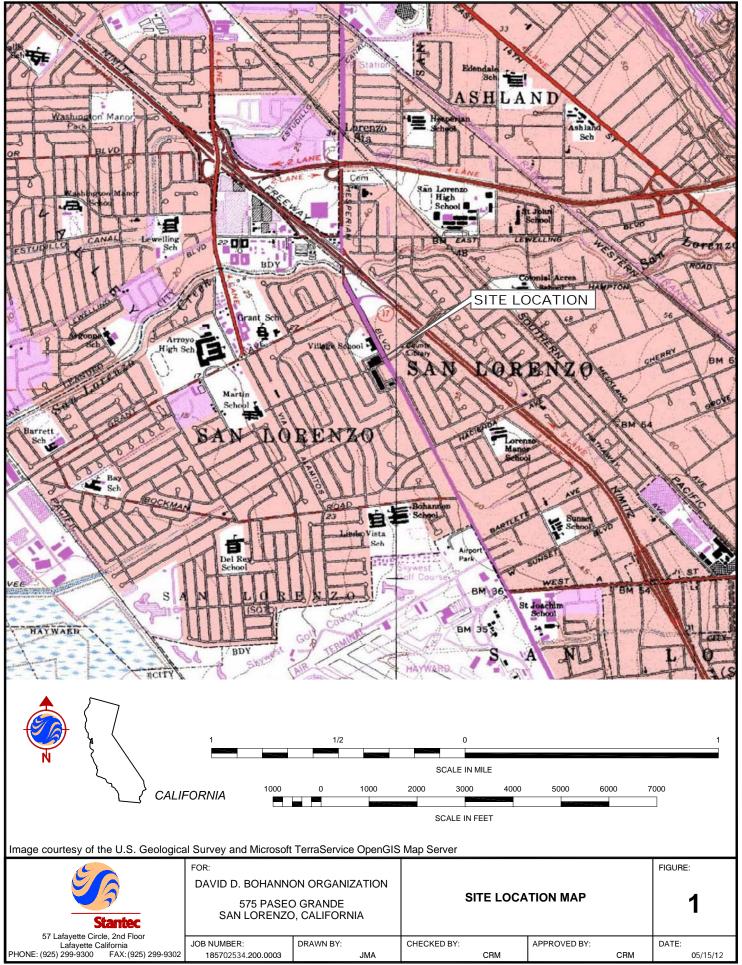
J = the chromatograph for this sample does not match the chromatographic pattern of the specified standard

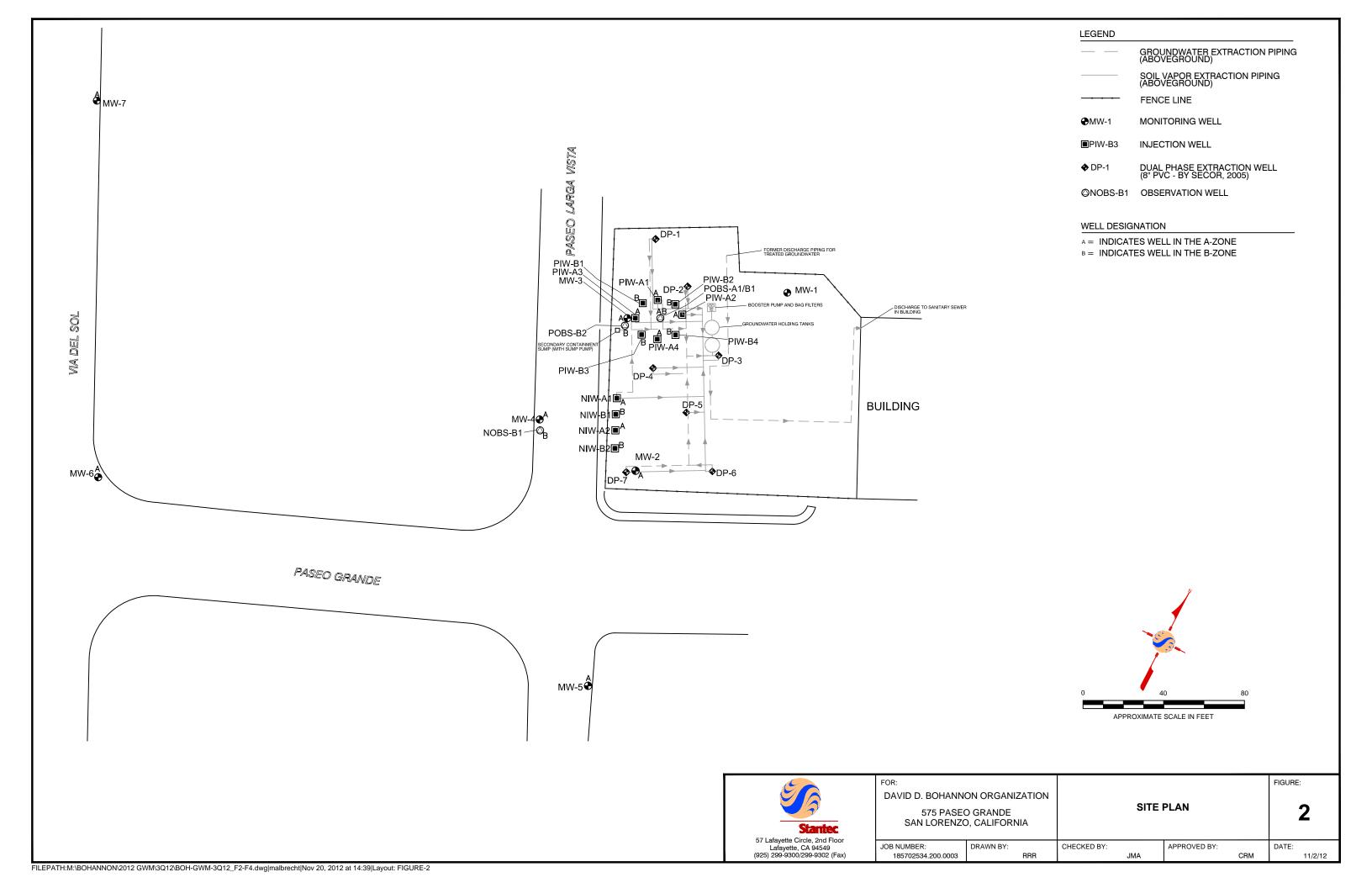
480/440 = primary and duplicate sample analytical results.

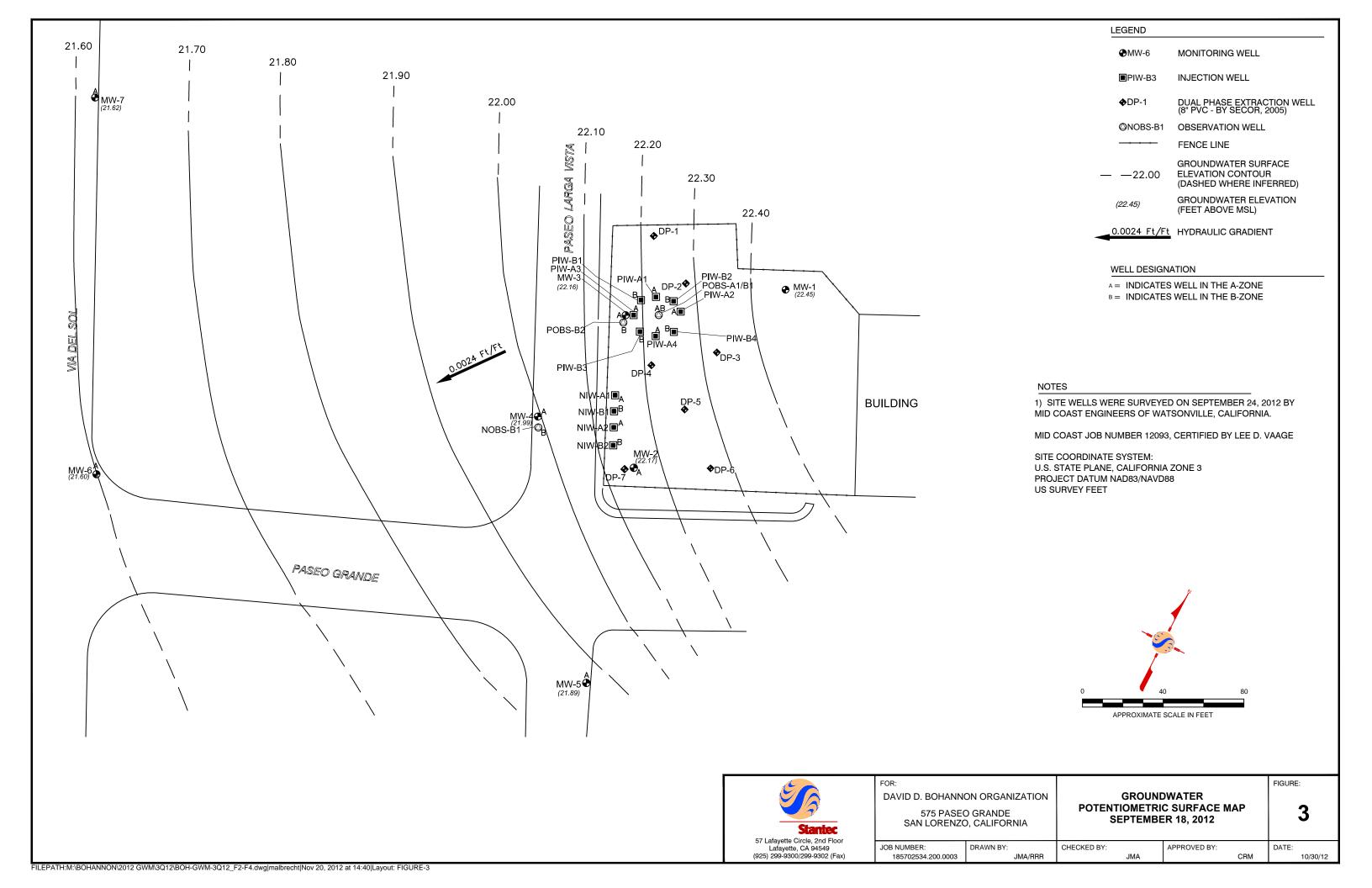
FIGURES

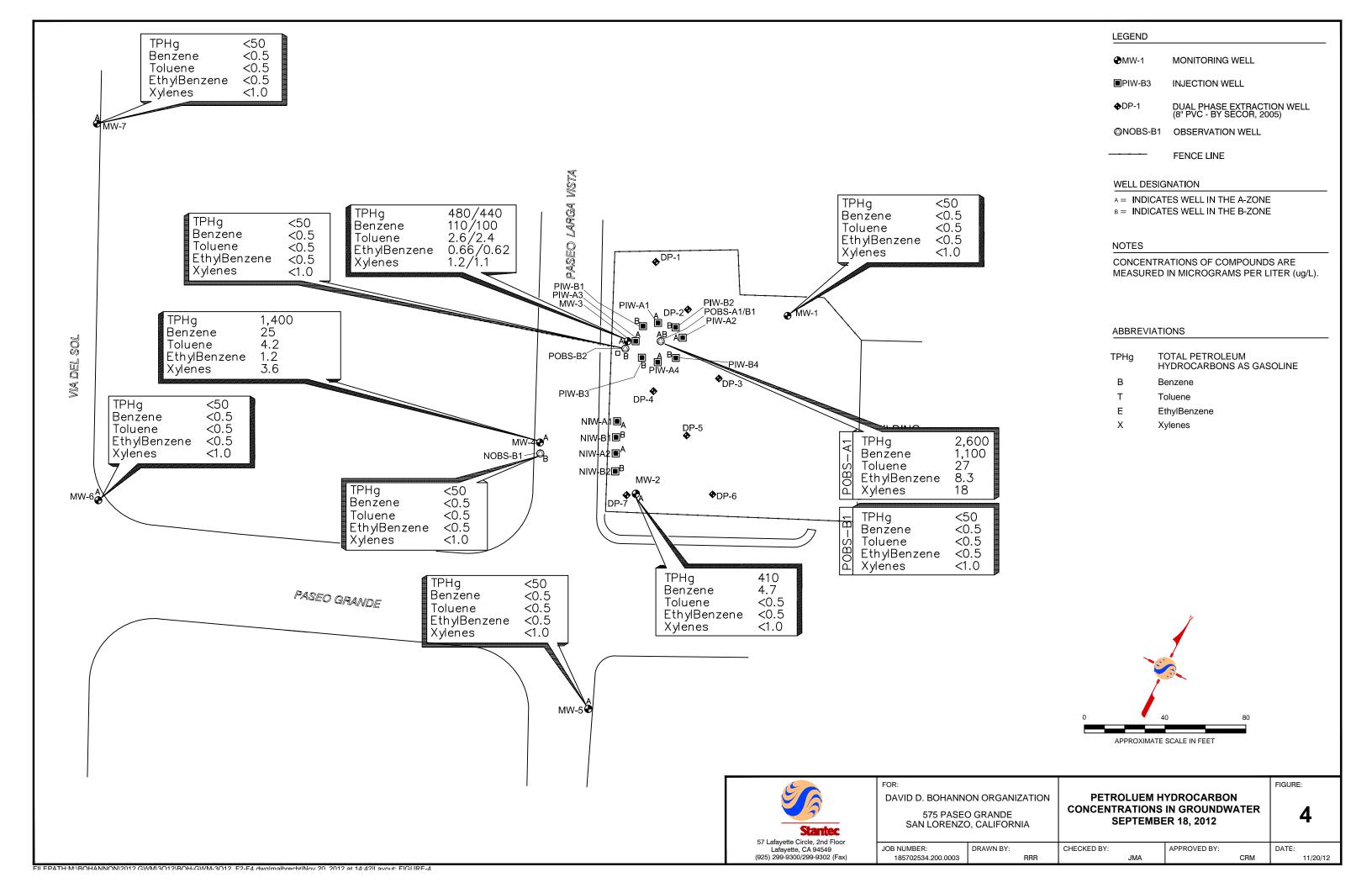
December 21, 2012

Third Quarter 2012 Groundwater Monitoring Report
David D. Bohannon Organization
575 Paseo Grande
San Lorenzo, California
Stantec PN: 185702534











APPENDIX A Summary of Previous Site Investigations and Remedial Actions

Third Quarter 2012 Groundwater Monitoring Report
David D. Bohannon Organization
575 Paseo Grande
San Lorenzo, California
Stantec PN: 185702534
December 21, 2012

APPENDIX A

Summary of Previous Site Investigations and Remedial Actions

David D. Bohannon Organization 575 Paseo Grande, San Lorenzo, California

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 station prior to 1969. Little information is known about the Site history related to its use as a gasoline service station. In anticipation of property redevelopment, investigation activities were conducted in March 1995 to determine if former underground service station equipment remained on-site. The work was conducted by Twining Laboratories, Inc. as documented in their letter report dated April 15, 1995. The investigation included a magnetometer survey followed by an exploratory excavation. In summary, the work conducted identified underground gasoline service station equipment which included what appeared to be the former tank pit, approximately 110 feet of fuel delivery system piping, and a grease sump and/or hydraulic lift pit in an area which may have been the former service garage. Field evidence and one soil sample indicated the potential for soil contamination along the piping runs, around the grease sump, and around the inferred location of the former tank pit. Characterization of the magnitude and extent of potential soil contamination were not performed during the initial activities.

In June 1995, SECOR conducted additional activities at the Site which included removal of the former underground storage tank (UST) system piping and the former grease sump, and characterization soil sampling along the pipelines and around the former grease sump and former tank pit areas. This work was summarized in SECOR's "Preliminary Characterization Report" to ACEH dated June 29, 1995 (SECOR, 1995). The characterization data from this investigation indicated that there were two areas of concern at the Site: 1) the former grease sump area; and 2) the former gasoline distribution system area. SECOR subsequently conducted excavation activities in these two areas. 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. Three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed during the investigation activities to evaluate the degree to which the groundwater had been affected. The results of the soil characterization and groundwater monitoring activities are reported in SECOR's documents entitled, "Report of Interim Remedial Actions" (RIRA; SECOR, 1996), dated June 4, 1996, and "Fourth Quarter 1996 Monitoring and Sampling Report," dated November 26, 1996.

In June 1999, a utility trench survey was conducted around the Site, and a passive soil vapor survey was performed downgradient 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).

On December 5, 2000, four additional groundwater monitoring wells (MW-4 through MW-7) were installed at the Site. Soil and groundwater sampling was conducted to evaluate possible off-site migration of petroleum-related constituents originating from the Site, and to collect data to direct further subsurface investigations and/or remediation at the Site, if necessary. The work was conducted in general accordance with SECOR's documents entitled, "Work Plan for Additional Groundwater Monitoring Well Installation," dated October 22, 1999, and "Addendum to the Work Plan for Additional Groundwater

APPENDIX A SUMMARY OF PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS

Monitoring Well Installation," dated December 2, 1999. The Work Plan was approved with comments in correspondence from the ACEH in a letter dated November 4, 1999. Historically, two of the on-site wells (MW-2 and MW-3) and one well immediately downgradient to the west (MW-4) contain elevated concentrations of petroleum hydrocarbons. Wells further off-site to the west (MW-6 and MW-7) and south (MW-5) typically do not contain detectable levels of petroleum hydrocarbons, with exception of MW-7, which reported low concentrations of total xylenes (up to 6.7 micrograms per liter $[\mu g/L]$) in the first two sampling events (December 2000 and February 2001). The well has since been non-detect for all constituents.

In January 2003, SECOR performed an additional limited subsurface investigation as described in the document entitled, "Remedial Action Work Plan," dated October 25, 2002, and submitted to ACEH. The Work Plan was approved by ACEH 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, and prepared by SECOR (SECOR, 2003a).

At the request of ACEH, 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.

Chemical Injection and Dual-Phase Extraction (DPE) Pilot Testing

The October 2002 Remedial Action Workplan (RAW) proposed nitrate injections to stimulate biological degradation of hydrocarbons in the groundwater. Based on the data collected in January 2003, additional remediation of soil was also recommended. An addendum to the RAW was submitted by SECOR in December 2003 proposing hydrogen peroxide injections for chemical oxidation of soils in addition to nitrate injections. The RAW addendum was approved by ACEH 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 upgradient 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 upgradient 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. Soil boring logs

APPENDIX A SUMMARY OF PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS

for these wells are provided in Appendix A. 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. Following Phase Three injections, EFI Global conducted a single-day DPE test (February 2005) and a five-day DPE test (April 2005) in the area of the former gasoline UST. The results of the Phase Three progress sampling (December 2004) and single-day DPE test (February 2005) are reported in the document entitled, "Semi-Annual (Second Half 2004) Groundwater Monitoring and Pilot Remedial Progress Report" (EFI Global, 2005).

Site-wide groundwater monitoring was conducted in May 2005. 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 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).

Full-Scale DPE Operations and Remedial Progress Sampling

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 the gasoline range (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) in monitoring wells downgradient of the Site below historical concentrations and to near the laboratory reporting limit concentrations in monitoring wells immediately downgradient of the former UST on-site. DPE system treatment equipment was removed from the Site in December 2009; however, all wells used for extraction and aboveground conveyance piping remain on-site.

Soil vapor sample well installation and subsequent soil vapor sampling was conducted at four locations on-site during March and April 2011. The purpose of the soil vapor sampling was to evaluate the potential for vapors associated with residual petroleum hydrocarbons in soil and/or groundwater to be present at concentrations that could pose a risk to conceptual future occupants of a Site building (if the Site was to be redeveloped with commercial and/or residential structures). Results from the soil vapor sampling indicated that concentrations of petroleum hydrocarbons present in shallow soil vapor at the Site were below available screening criteria such as California Environmental Protection Agency

APPENDIX A SUMMARY OF PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS

California Human Health Screening Levels (CHHSLs) and Environmental Screening Levels (ESLs) published by the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB). 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. The J&E model results indicated that residual concentrations of chemicals in shallow soil vapor at the Site do not pose a risk to human health considering commercial/industrial or residential land uses. A detailed description of soil vapor sampling and results of the risk analysis are included in the DPE Report (Stantec, 2011).

At the request of ACEH, Stantec performed additional groundwater monitoring during the second and third quarters of 2012 to monitor petroleum hydrocarbon concentrations in Site monitoring wells after the completion of full-scale DPE system operations. 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 of second quarter 2012 groundwater monitoring showed concentrations of petroleum hydrocarbons downgradient 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, and significant decreases in petroleum hydrocarbon concentrations in well POBS-A1 and monitoring well MW-3 located within and immediately downgradient of the former UST excavation area.

APPENDIX A SUMMARY OF PREVIOUS SITE INVESTIGATIONS AND REMEDIAL ACTIONS

References

- EFI Global, 2004a. Semi-Annual (Second Half 2003) Groundwater Monitoring Report, 575 Paseo Grande, San Lorenzo, California. June 21, 2004.
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- Regional Water Quality Control Board (RWQCB), 2008. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater. California Regional Water Quality Control Board, San Francisco Bay Region. Interim Final November 2007, Revised May 2008.
- SECOR International Incorporated (SECOR), 1995. Preliminary Characterization Report, Former Gasoline Service Station Property at the Northeast Corner of Paseo Grande and Paseo Largavista, San Lorenzo, California. June 29, 1995.
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- SECOR, 1999. Third Quarter 1999 Groundwater Monitoring Results and Plume Definition Investigation Report, 575 Paseo Grande, San Lorenzo, California. October 22, 1999.
- SECOR, 2003a. Limited Subsurface Investigation Report and Work Plan for Additional Soil and Groundwater Assessment, David D. Bohannon Organization Property, 575 Paseo Grande, San Lorenzo, California. February 19, 2003.
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- Stantec Consulting Corporation, 2011. Report of Dual-Phase Extraction System Operations, Soil Vapor Sampling, and Risk Analysis, David D. Bohannon Organization. November 22, 2011.
- Stantec Consulting Services Inc., 2012. Second Quarter 2012 (Semi-Annual) Groundwater Monitoring Report, David D. Bohannon Organization, 575 Paseo Grande, San Lorenzo, California. July 27, 2012.



APPENDIX B Field Data Sheets for the September 2012 Groundwater Monitoring Event

Third Quarter 2012 Groundwater Monitoring Report
David D. Bohannon Organization
575 Paseo Grande
San Lorenzo, California
Stantec PN: 185702534
December 21, 2012

HYDROLOGIC DATA SHEET

Date: 9-18-12

Project: Bohannon

Technician: C. Melancon

Project #: 185702534

TOC = Top of Well Casing Elevation
DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Diameter ELEV = Groundwater Elevation DUP = Duplicate

| WELL OR LOCATION | TIME | MEA | SUREMENT | • | COMMENTS |
|---------------------|------|------|----------|-----|----------|
| | | DTW | DTB | Dia | |
| | | | | | |
| MW-1 | | 7.32 | | 2 | |
| MW-2 | | 7.37 | | 2 | |
| MW-3 | | 7,18 | | 2 | |
| MW-4 | | 6.65 | | 2 | |
| MW-5 | | 6.67 | | 2 | |
| MW-6 | | 6.10 | | 2 | |
| MW-7 | | 6.60 | | 2 | |
| POBS-A1 | | 7.58 | | 1 | |
| POBS-B1 | | 7.71 | | 1 | |
| POBS-B2 | | 7.05 | | 2 | |
| NOBS-B1 | | 6.54 | | 2 | |
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| | | | G | | | | Data Sheet | | | |
|--|---|--|---|---|-------------------------------------|---|--|---|---|---|
| Project #: / 8 | 570 | 2534 | Гask No: | | | ct Name: innon | | D | ate: <i>9 18</i> | 1/2 |
| Site Location: | 45 9 | | | 24 | | | 1020 2 | | | • |
| San Lorenzo | | | | Sa | ample | r(s): Z | Welance | 0 64 | | |
| Well ID: M | | | Depth | to Water (I | DTW) | (ft): 7, | 18 Sample | DTW (ft): | | |
| Screen Interva | | | | to Bottom | | | | | ferenced to: | тос |
| Tube/Pump D | | | Well D | iameter (in | ich): | 2 | OVM (p | pm) = 🚤 | Palli | |
| CALCULATIONS | S: | | | | | | | | | |
| Length of the wa | ter columr | ı: <u> </u> | ft - | ٠ | ft = | | ft | Volume of S | Schedule 40 PV | C Pipe |
| | | | DTB | DTW | | Water Col | | Well Diame | eter. I.D | gal/linear ft. |
| | | | | | | | | 1.25 | 1.38 | 0.08 |
| 80% of the water | r level: | | | + (| | | | 2 | 2.067 | 0.17 |
| | | | DTW | Water Col | | Re | charge water level | 3 | 3.068 | 0.38 |
| | | | | | | | | 4 | 4.026 | 0.66 |
| Estimated Purge | Volume (f | = P \ /)· = | ft : | (| x | 3 = | Gallons | 6 | 6.065 | 1.5 |
| Estimated Purge | , 0,0,1,1,0 (1 | Wa | iter col | gal/lin. ft. | —^` c | asing Volume: | s | | | |
| | | | | | | | | 8 | 7.981 | 2.6 |
| | | /Micro Puro | | | | | | 10 | 10.02 | 4.12 |
| () | Purge at | least 3 well | volumes | | | | | 12 | 11.938 | 5.81 |
| () Other: () Other | | | | | | ble Bailer c Pump & D | ler Dedicated Tubing | Type of Water Quality Kit Used: (X) YSI 556 () Myron L () Horriba () Hanna () Other: | | |
| Do. | gin Purge | at /2 | 240 | | | | | | | |
| De | giii ruige | at / | | | | | | | | |
| Time (24 hrs) | Volume | Temp | DTW | Specifi Conducti (µS/cm | vity | pH (units) | Color | Odor | DO (mg/L) | Redox Potential (mV) |
| Time | | Temp. | | | vity) | pH (units) (± 0.2) | Color | Odor | DO (mg/L) (± 10%) | Potential (mV) |
| Time (24 hrs) | Volume (G /(L)) | Temp. | | Conducti (μS/cm | vity) | (units) | Color | | (mg/L) | Potential |
| Time (24 hrs) (every 3-5 min) | Volume (G /(L)) | Temp. (C)°F) (± 10%) 24.85 23.4 | DTW | Conductiv (μS/cm (± 10% | vity) | (units) (± 0.2) | | Odor | (mg/L) (± 10%) | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) | Volume (G/L) | Temp. (C)°F) (± 10%) 24.85 23.41 23.84 | DTW 7.76 | Conduction (μS/cm) (± 10%) 924 909 | vity i) | (units) (± 0.2) F. 03 | Clear | mod. | (mg/L) (± 10%) | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 | Volume (G/L) 1.5 2.5 3.0 3,5 | Temp. (± 10%) 24.85 23.41 23.84 24.03 | DTW 7.76 | Conductive (μS/cm) (± 10%) 9 2 4 9 0 9 | vity | (units) (± 0.2) 7,03 7,12 | Clear | mod. | (mg/L) (± 10%) 0,72 0,45 | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 | Volume (G/(L)) 1.5 2.5 3.0 3,5 4,0 | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 | 7.76 8.10 8.11 8.11 | Conductive (μS/cm) (± 10%) 92 4 9 0 9 9 1 4 9 1 6 9 1 9 | vity | (units) (± 0.2) 7.03 7.12 7.12 7.12 | C/ear 11 11 | 200 d. | (mg/L) (± 10%) 0,72 0,45 0,36 0,33 0,25 | Potential (mV) (± 20%) 57,0 - 107,7 - 104,1 - 104,7 |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 | Volume (G/(L)) 1.5 2.5 3.0 3,5 4,0 | Temp. (± 10%) 24.85 23.41 23.84 24.03 | 7.76 8.10 8.11 8.11 | Conduction (μS/cm) (± 10%) 92 4 9 9 9 9 9 9 1 4 9 1 6 | vity | (units) (± 0.2) 7.03 7.12 7.12 | C/eer 11 | 11 11 11 11 | (mg/L) (± 10%) 0, 72 0, 45 0,36 | Potential (mV) (± 20%) 57.0 -107.7 -104.1 |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 | Volume (G/(L)) 1.5 2.5 3.0 3,5 4,0 | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 | 7.76 8.10 8.11 8.11 | Conductive (μS/cm) (± 10%) 92 4 9 0 9 9 1 4 9 1 6 9 1 9 | vity | (units) (± 0.2) 7.03 7.12 7.12 7.12 | C/ear 11 11 | 200 d. | (mg/L) (± 10%) 0,72 0,45 0,36 0,33 0,25 | Potential (mV) (± 20%) 57,0 - 107,7 - 104,1 - 104,7 |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 | Volume (G/(L)) 1.5 2.5 3.0 3,5 4,0 | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 | 7.76 8.10 8.11 8.11 | Conductive (μS/cm) (± 10%) 92 4 9 0 9 9 1 4 9 1 6 9 1 9 | vity | (units) (± 0.2) 7.03 7.12 7.12 7.12 | C/ear 11 11 | 200 d. | (mg/L) (± 10%) 0,72 0,45 0,36 0,33 0,25 | Potential (mV) (± 20%) 57,0 - 107,7 - 104,1 - 104,7 |
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| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 13 1 0 Liters / Gallon Sampling Time (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S | Volume (G/(L)) 1.5 2.5 3.0 2.5 4.0 4.5 s Purgeo e: / | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 24.38 E SEE WOR Preserv HC Non | DTW 7.76 8.10 8.11 8.11 8.11 8.11 | Conductiv (μS/cm (± 10%) 9 2 4 9 1 9 9 1 9 9 1 9 9 2 0 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL | Pump Dupli | (units) (± 0.2) 7.03 7.12 7.12 7.12 p Rate in licate Sam (√) Analy () TOC () Methal () Napht | L or G /min: ple ID: te Sample Analy te(s): | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI None | (mg/L) (± 10%) Ø, 72 Ø, 45 Ø, 36 Ø, 33 Ø, 25 Ø, 26 E WORK OR E Bottles: 2 X 40 mL A 3 X 40 mL V 2 x 1 L Amb | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 13 1 0 Liters / Gallon Sampling Time (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar | Volume (G/(L)) 1.5 2.5 3.0 3.5 4.0 4.5 s Purgeo e: / zed For: | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 24.38 I: SEE WOR Preserv HC Non HNC | DTW 7.76 8.10 8.11 8.11 8.11 8.11 8.11 | Conductiv (μS/cm (± 10%) 9 2 4 9 1 9 9 1 9 9 1 9 9 2 0 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL | Pump Dupli | (units) (± 0.2) 7.03 7.12 7.12 P Rate in Duplicate Sam (√) Analy () TOC () Metha () Napht () Alkalin () Alkalin | L or G /min: ple ID: te Sample Analytics(s): ane chalene, Phenol nity, TDS | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI None None | (mg/L) (± 10%) 0, 72 0, 45 0,36 0,33 0,25 0,25 0,26 E WORK OR E Bottles: 2 X 40 mL A 3 X 40 mL V 2 x 1 L Amb 1 X 500 mL | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 13 1 0 Liters / Gallon Sampling Time (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S | Volume (G/(L)) 1.5 2.5 3.0 3.5 4.0 4.5 s Purgeo e: / zed For: | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 24.38 E SEE WOR Preserv HC Non | DTW 7.76 8.10 8.11 8.11 8.11 8.11 8.11 8.11 8.11 | Conductiv (μS/cm (± 10%) 9 2 4 9 1 9 9 1 9 9 1 9 9 2 0 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL | Pump Dupli OAs bers Poly Poly Poly | (units) (± 0.2) 7.03 7.12 7.12 P Rate in Duplicate Sam (√) Analy () TOC () Metha () Napht () Alkalin () Alkalin | L or G /min: ple ID: te Sample Analy. te(s): ane thalene, Phenol nity, TDS bhorus, TKN | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI None | (mg/L) (± 10%) Ø, 72 Ø, 45 Ø, 36 Ø, 33 Ø, 25 Ø, 26 E WORK OR E Bottles: 2 X 40 mL A 3 X 40 mL V 2 x 1 L Amb | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 13 1 0 Liters / Gallon Sampling Time (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO₂ NO₃ & S () Total Mangar () Dissolved Iro | Volume (G/(L)) 1.5 2.5 3.0 3.5 4.0 4.5 s Purgeo e: / zed For: | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 24.38 I: SEE WOR Preserv HC HC HC HC Field-filtere | DTW 7.76 8.10 8.11 8.11 8.11 8.11 8.11 8.11 8.11 | Conductiv (μS/cm (± 10%) 9 2 4 9 1 9 9 1 9 9 1 9 9 2 0 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL | Pump Dupli | (units) (± 0.2) 7, 03 7, 12 7, 12 7, 12 P Rate in licate Sam Diuplicate (√) Analy () TOC () Metha () Napht () Alkalir () Phosp | L or G /min: ple ID: re Sample Analy. te(s): ane thalene, Phenol nity, TDS chorus, TKN | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | (mg/L) (± 10%) 0, 72 0, 45 0,36 0,33 0,25 0,25 0,26 E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL A 1 X 500 mL 1 x 500 mL | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) 12 4 5 12 5 0 12 5 5 13 0 0 13 0 5 13 1 0 Liters / Gallon Sampling Time (V) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar () Dissolved Iro () Ferrous Iron | Volume (G/(L)) 1.5 2.5 3.0 3.5 4.0 4.5 s Purgeo e: / zed For: | Temp. (± 10%) 24.85 23.41 23.84 24.03 24.32 24.38 I: SEE WOR Preserv HO HO HNO Field-filtere HC | DTW 7.76 8.10 8.11 8.11 8.11 8.11 8.11 8.11 8.11 | Conductiv (μS/cm (± 10%) 9 2 4 9 1 9 9 1 9 9 1 9 9 2 0 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL 2 X Amber V | Pump Dupli | (units) (± 0.2) 7, 03 7, 12 7, 12 7, 12 P Rate in I icate Sam Diuplicate (√) Analy () TOC () Metha () Napht () Alkalir () Phosp () VOCs | L or G /min: ple ID: re Sample Analy. te(s): ane thalene, Phenol nity, TDS chorus, TKN | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | (mg/L) (± 10%) 0, 72 0, 45 0,36 0,33 0,25 0,25 0,26 E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL A 1 X 500 mL 1 x 500 mL | Potential (mV) (± 20%) |

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| Groundwater Sampling Data Sheet | | | | | | | | | | | | |
|--|-------------|---------------|--------------|------------------|---|--------------------------|--------------------|--------------|--|--------------------------|----------------|--|
| | | - 1 | | | | ct Name: | | | | | 4 | |
| Project #: /8 | 570 | 2534 | Task No: | | Bohannon Date: 9/18/12 | | | | | | | |
| Site Location San Lorenzo | | | | | mala | r(s): 🧸 . | Henry | 1. | | | | |
| Well ID: M | 11 - 4 | | Donth | to Water (| TWA | (S): | 1901 | | | 1 23 | | |
| Screen Interv | | | | | (DTW) (ft): 6.65 Sample DTW (ft): 6', 82 n (DTB) (ft): Measurements Referenced to: TOC | | | | | | TOC | |
| Tube/Pump Depth (ft): Well Diameter (ii | | | | | | | | | | | | |
| CALCULATIONS | | - | Well L | nameter (ii | iciij. | _ | | O VIVI (P) | Jiii) — | | | |
| | S.) | | | | | | | | | | | |
| Length of the wa | iter column | n: <u></u> | ft | | ft = | | ft | | Volume of S | chedule 40 PV | 'C Pipe | |
| | | | DTB | DTW | | Water Col | | | Well Diame | eter. I.D | gal/linear ft. | |
| | | | | | | | | | 1.25 | 1.38 | 0.08 | |
| 900/ of the water | e laveli | | | | # V | 0.0\ - | | | | | | |
| 80% of the water | r level: | - | DTW | + (Water Col | _ | | ft charge water | r laval | 2 | 2.067 | 0.17 | |
| | | ' | D1 11 | Water Cor | | No | charge water | icaci | 3 | 3.068 | 0.38 | |
| | | | | | | | | | 4 | 4.026 | 0.66 | |
| Estimated Purge | Volume (I | EPV): = | ft : | X | X | 3 = | Ga | llons | 6 | 6.065 | 1.5 | |
| | | Wa | ater col | gal/lin. ft. | _ <u>_</u> _ | asing Volume: | s | | 8 | 7.981 | 2.6 | |
| (V) | Low Flow | /Mioro Dur | nina | | | | | | _ | | | |
| | | //Micro Puro | | | | | | | 10 | 10.02 | 4.12 | |
| () | Purge at | least 3 well | volumes | | | | | | 12 | 11.938 | 5.81 | |
| | | | | | | le Bailer c Pump & D | | Tubing | Type of Water Quality Kit Used: (X) YSI 556 () Myron L () Horriba () Hanna () Other: | | | |
| | | Temp. | | Specifi | С | | | | | | Redox | |
| Time | Volume | (°C)/°F) | | Conducti | vity | рН | | | | DO | Potential | |
| (24 hrs) | (G (L) | | DTW | (μS/cm | | (units) | Co | lor | Odor | (mg/L) | (mV) | |
| (every 3-5 min) | | (± 10%) | | (± 10% | | (± 0.2) | | | | (± 10%) | (± 20%) | |
| 920 | | 20.40 | | 891 | | 6.83 | Cle | 5/ | wed. | 0.39 | -50,4 | |
| 925 | | 20,34 | | 895 | | 5.98 | 1,5 | | () | 0.31 | -59.5 | |
| 930 | | 20.45 | | 899 | | 5.99 | | | | 0.31 | -60.7 | |
| 935 | | 20.43 | | 902 | | 7.00 | ir. | | 17 | 0.28 | -61.6 | |
| 770 | 5.5 | 20,44 | 6.82 | 903 | - | 7.00 | 34.0 | | - (1 | 0,27 | -61.3 | |
| | | | | | - | | | | | | | |
| | | | | | _ | | | | | | | |
| | | - | - | - | | | | | | | | |
| Liters / Gallon | s Purgeo | l: | | | Pump | Rate in I | L or G /m | nin: | | | | |
| Sampling Time: 940 | | | | | Duplicate Sample ID: Sample Time: | | | | | | | |
| Sample Analy: | | | K OPDE | , | ! | Dunliest | a Samul | o Analys | ad For SE | E WORK OR | DEB | |
| (√) Analyte(s): | zeu i oi. | Preserv | | Bottles: | | (√) Analy | | | Preservative | | JEK | |
| (X) TPH-g, BTE | X, MTBE | HC | | 3 X 40 mL V | 'OAs | () TOC | 10(0). | | H ₂ SO ₄ | | Amber VOAs | |
| () TPH-d & TPI | | НС | | 2 x 0.5 L Am | | () Metha | | | HCI | 3 X 40 mL \ | | |
| () NO ₂ , NO ₃ & SO ₄ None 1 X 500 mL () Total Manganese HNO ₃ 1 X 250 mL | | | | • | | thalene, Pi nity, TDS | henol | None None | 2 x 1 L Amb | | | |
| () Dissolved Iro | | Field-filtere | • | 1 X 250 mL | | | ohorus, TK | N. | H ₂ SO ₄ | 1 X 500 mL 1 x 500 mL | | |
| () Ferrous Iron | | HC | 31 | 2 X Amber V | OAs | () VOCs | i | | HCI | 3 X 40 mL \ | | |
| () SVOCs | | Non | ie | 2 x 1 L Amb | ers | () Other | | | | | | |
| Notes: | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | T12 - | 1 19 | 20) | | | | | | | | | |
| _ | TB- | 1 (90 | 90) | | | | | | | | | |

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| | | | | roundwat | | | Juliu Onoct | | | |
|---|--|---|--|--|---|--|---|---|--|--|
| | | 5.79 | | | | ct Name: | | | | |
| Project #: / 5 | | 2534 | Гask No: | | Boha | nnon | | D | ate: 9 / /8 | 1/2 |
| Site Location: | : | | | ٥. | | | 11. 1 | | | |
| San Lorenzo Well ID: 八〇 | 01-1 | 2 1 | Donth | to Mater (I | TWA | (S): C | 54 Sample | DTM (fe) | 1 +9 | - |
| Screen Interv | 2) (ft). | 71 | Depth | to Bottom | (DTR | (IL). O | Moseur | | ferenced to: | TOC |
| Tube/Pump D | | | | iameter (in | | | | pm) = | | 100 |
| CALCULATIONS | | | Well D | idinotor (iii | ionj. | - | Ovin (P | p, - | | |
| | - 5 | | | | | | | | | |
| Length of the wa | iter column |): | ft | DTW | ft = | | ft | Volume of S | Schedule 40 PV | C Pipe |
| | | | DTB | DTW | | Water Col | | Well Diame | eter. I.D | gal/linear ft. |
| | | | | | | | | 1.25 | 1.38 | 0.08 |
| 80% of the water | r level: | | ft . | . 7 | ĤΥ | 0.2) = | ft | 2 | 2.067 | 0.17 |
| 5070 Of the water | i ievei. | | DTW " | + (Water Col | -"^ | 0.2) – Re | charge water level | | | |
| | | | | | | | • | 3 | 3.068 | 0.38 |
| | | | | | | | | 4 | 4.026 | 0.66 |
| Estimated Purge | Volume (I | EPV): = | ft : | x | _x | 3_= | Gallons | 6 | 6.065 | 1,5 |
| | | Wa | ater col | gal/lin. ft. | C | asing Volumes | s | 8 | 7.981 | 2.6 |
| (X) | Low-Flow | /Micro Purg | aina | | | | | 10 | 10.02 | 4.12 |
| | | least 3 well | - | | | | | 12 | 11.938 | 5.81 |
| () | i dige at | icast o weii | Volumes | | | | | 12 | 11.550 | 5.61 |
| () Dis () Ele (X) Pe () Oth | sposable B ectric Subm ristaltic Pu her: | Bailer ailer nergible Pum mp | р | () Di: | ımp Dis sposat eristaltic | | ler Dedicated Tubing | (X) Y () M () H () H | i ter Quality Kit SI 556 lyron L orriba anna ither: | Used: |
| Be | gin Purge | at 7 | 50 | - 10 | | | r | Y | | |
| | | Temp. | | Specifi | | | | | | Redox |
| Time (24 hrs) | Volume | (C) °F) | DTW | Conductiv | - 1 | pH (units) | Color | Odor | DO (mg/L) | Potential (mV) |
| (24 hrs) | (G (L) | (J) | DTW | (μS/cm |) | (units) | Color | Odor | (mg/L) | (mV) |
| (24 hrs) (every 3-5 min) | (G (C) | (± 10%) | | (μS/cm (± 10% |) | (units) (± 0.2) | | | (mg/L) (± 10%) | (mV) (± 20%) |
| (24 hrs) (every 3-5 min) | (G/C) | (± 10%) 20 23 | 6,62 | (μS/cm (± 10% |) | (units) | Clear | Odor | (mg/L) (± 10%) | (mV) (± 20%) 27.6 |
| (24 hrs) (every 3-5 min) | (G (C) | (± 10%) 20 Z3 20 /13 | | (μS/cm (± 10% |) | (units) (± 0.2) 7/19 | Clear | ирие | (mg/L) (± 10%) | (mV) (± 20%) |
| (24 hrs) (every 3-5 min) 955 1000 1005 | (G (C) | (± 10%) 20 23 20 13 20 15 | 6.62 | (μS/cm (± 10% 9 90 988 989 999 |) | (units) (± 0.2) 7/19 7.23 | Clear | 3 Dure | (mg/L) (± 10%) 0.30 | (mV) (± 20%) 27.6 34.6 |
| (24 hrs) (every 3-5 min) 955 1005 1005 1015 | (G (C) | (± 10%) 20 23 20 13 20 15 | 6,62 6.60 6.59 | (μS/cm (± 10% 9 9 0 9 8 8 9 8 9 |) | (units) (± 0.2) 7/19 7.23 7.24 | Clear | DDD P | (mg/L) (± 10%) 0.56 0.30 | (mV) (± 20%) 27.6 34.6 34.8 |
| (24 hrs) (every 3-5 min) 955 1000 1005 | (G/C) 1.5 2.5 3.5 4.5 | (± 10%) 20 23 20 13 20 15 20 18 | 6,62 6.60 6.59 6.59 | (μS/cm (± 10% 9 90 988 989 999 |) | (units) (± 0.2) 7/19 7.23 7.24 | C/c&r | 2000 P | (mg/L) (± 10%) 0.36 0.30 0,3/ 0,32 | (mV) (± 20%) 27.6 34.6 34.8 36.7 |
| (24 hrs) (every 3-5 min) 955 1005 1005 1015 | (G/C) 1.5 2.5 3.5 4.5 | (± 10%) 20 23 20 13 20 15 20 18 | 6,62 6.60 6.59 6.59 | (μS/cm (± 10% 9 90 988 989 999 |) | (units) (± 0.2) 7/19 7.23 7.24 | C/c&r | 2000 P | (mg/L) (± 10%) 0.36 0.30 0,3/ 0,32 | (mV) (± 20%) 27.6 34.6 34.8 36.7 |
| (24 hrs) (every 3-5 min) 955 1005 1005 1015 | (G/C) 1.5 2.5 3.5 4.5 | (± 10%) 20 23 20 13 20 15 20 18 | 6,62 6.60 6.59 6.59 | (μS/cm (± 10% 9 90 988 989 999 |) | (units) (± 0.2) 7/19 7.23 7.24 | C/c&r | 2000 P | (mg/L) (± 10%) 0.36 0.30 0,3/ 0,32 | (mV) (± 20%) 27.6 34.6 34.8 36.7 |
| (24 hrs) (every 3-5 min) 955 1005 1005 1015 | (G/C) 1.5 2.5 3.5 4.5 5.5 | (± 10%) 20 23 20 13 20 15 20 18 20 18 | 6,62 6.60 6.59 6.59 | (μS/cm (± 10% 9 90 988 989 999 |) | (units) (± 0.2) 7.19 7.23 7.24 7.24 | C/c&r | 2000 P | (mg/L) (± 10%) 0.36 0.30 0,3/ 0,32 | (mV) (± 20%) 27.6 34.6 34.8 36.7 |
| (24 hrs) (every 3-5 min) 955 1000 1005 1015 +025 | (G (C) 1,5 2,5 3,5 4,5 5,5 | (± 10%) 20 23 20 13 20 15 20 18 20 18 | 6,62 6.60 6.59 6.59 | (μS/cm (± 10% 9 90 988 989 999 | Pump | (units) (± 0.2) 7.19 7.23 7.24 7.24 | C/c 6/c 10 10 10 10 10 10 10 10 10 10 10 10 10 | 2000 P | (mg/L) (± 10%) 0.56 0.30 0.31 0.32 0,29 | (mV) (± 20%) 27.6 34.6 34.8 36.7 |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 101 5 101 5 102 b Liters / Gallon Sampling Time | (G (C) 1.5 2.5 3.5 4.5 5.5 9.5 9.5 9.5 9.5 9.5 9.5 9 | (± 10%) 20 23 20,13 20,15 20,18 20,18 20,18 | 6,62 6.60 6.59 6.59 | (µS/cm (± 10% 9 90 988 989 999 | Pump | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 D Rate in I | C/c 6/c 10 10 10 10 10 10 10 10 10 10 10 10 10 | Sample Tin | (mg/L) (± 10%) 0.56 0.30 0.31 0.32 0.29 | (mV) (± 20%) 27.6 34.6 34.8 36.7 36.8 |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 | (G (C) 1,5 3,5 4,5 5,5 4,5 5,5 es Purgeo | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 Preserv | 6,62 6.60 6.59 6.59 6.59 | (μS/cm (± 10%) 990 988 989 990 991 | Pump Dupli | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 Cate Sam Duplicate (√) Analy | C/C&/C | Sample Tin | (mg/L) (± 10%) 0.30 0.30 0.32 0.29 | (mV) (± 20%) 27.6 34.6 34.8 36.7 36.8 |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 100 5 100 5 100 5 100 T 100 S HOLES HOLES Liters / Gallon Sampling Time Sample Analy (√) Analyte(s): (X) TPH-g, BTE) | (G (C) | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 Preserv | 6.62 6.60 6.59 6.59 6.59 | (µS/cm (± 10% 990 988 989 990 991 | Pump Dupli | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 Cate Sam Duplicate (√) Analy () TOC | L or G /min: ple ID: te Sample Analytics(s): | Sample Tin zed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0.30 0.30 0.32 0,29 ne: EE WORK OR E: Bottles: 2 X 40 mL A | (mV) (± 20%) 27.6 34.6 34.8 36.7 36.8 |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 100 5 100 5 100 5 100 T 100 5 100 T 100 S THE Sampling Time Sample Analy (√) Analyte(s): (X) TPH-g, BTE; () TPH-d & TPH-d | (G (C) 1,5 2,5 3,5 4,5 5,5 s Purged e: / zed For: | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 Preserv | 6.62 6.60 6.59 6.59 6.59 | (μS/cm (± 10%) 990 988 989 990 991 | Pump Dupli | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 Description of the cate Same Duplicate (√) Analy (√) TOC (√) Metha | L or G /min: ple ID: te Sample Analytics(s): | Sample Tin | (mg/L) (± 10%) 0.30 0.30 0.32 0.29 | (mV) (± 20%) 27.6 34.6 34.8 36.7 36.8 DER |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 6 100 5 100 6 100 6 100 7 100 6 100 7 100 7 100 7 100 7 100 8 100 7 | s Purged e: / zed For: X, MTBEmo SO ₄ nese | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 EEE WOR Preserv | 6.62 6.60 6.59 6.59 6.59 | (µS/cm (± 10% 990 988 989 990 991 | Pump Dupli | (units) (± 0.2) 7./ 9 7.2 3 7.2 4 7.2 4 7.2 4 7.2 4 7.2 7 Cate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Alkalir | L or G /min: ple ID: te Sample Analyte(s): ane thalene, Phenol nity, TDS | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI None None | (mg/L) (± 10%) (± 10%) (| (mV) (± 20%) 27.6 34.6 34.8 36.7 36.8 DER |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 5 100 6 100 5 100 6 100 5 100 6 | s Purged e: / zed For: X, MTBEmo SO ₄ nese | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 EE WOR Preserv HO Nor HNO Field-filtere | 6.62 6.60 6.59 6.59 6.59 6.59 | (µS/cm (± 10% 998 989 999 991 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL | Pump Dupli /OAs abers Poly Poly | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 7.24 Cate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Phosp | L or G /min: ple ID: te Sample Analyte(s): ane thalene, Phenol nity, TDS phorus, TKN | Sample Tin zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | (mg/L) (± 10%) (± 10%) (| (mV) (± 20%) 27.6 34.6 34.8 26.7 36.8 DER Amber VOAs /OAs pers Poly |
| (24 hrs) (every 3-5 min) 955 1000 1005 1005 1005 1005 1005 1005 | s Purged e: / zed For: X, MTBEmo SO ₄ nese | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 EEE WOR Preserv HO HO Field-filtere | 6.62 6.60 6.59 6.59 6.59 6.59 6.59 | (#S/cm (± 10%) 988 989 989 990 991 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 250 mL 1 X 250 mL 2 X Amber V | Pump Dupli /OAs bers Poly Poly /OAs | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 7.24 Cate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Phosp () VOCs | L or G /min: ple ID: te Sample Analyte(s): ane thalene, Phenol nity, TDS chorus, TKN | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI None None | (mg/L) (± 10%) (± 10%) (| (mV) (± 20%) 27.6 34.6 34.8 26.7 36.8 DER Amber VOAs /OAs pers Poly |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 100 5 100 5 100 5 100 5 100 5 100 6 100 5 100 6 | s Purged e: / zed For: X, MTBEmo SO ₄ nese | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 EE WOR Preserv HO Nor HNO Field-filtere | 6.62 6.60 6.59 6.59 6.59 6.59 6.59 | (µS/cm (± 10% 998 989 999 991 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL | Pump Dupli /OAs bers Poly Poly /OAs | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 7.24 Cate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Phosp | L or G /min: ple ID: te Sample Analyte(s): ane thalene, Phenol nity, TDS chorus, TKN | Sample Tin zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | (mg/L) (± 10%) (± 10%) (| (mV) (± 20%) 27.6 34.6 34.8 26.7 36.8 DER Amber VOAs /OAs pers Poly |
| (24 hrs) (every 3-5 min) 955 1000 1005 1005 1005 1005 1005 1005 | s Purged e: / zed For: X, MTBEmo SO ₄ nese | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 EEE WOR Preserv HO HO Field-filtere | 6.62 6.60 6.59 6.59 6.59 6.59 6.59 | (#S/cm (± 10%) 988 989 989 990 991 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 250 mL 1 X 250 mL 2 X Amber V | Pump Dupli /OAs bers Poly Poly /OAs | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 7.24 Cate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Phosp () VOCs | L or G /min: ple ID: te Sample Analyte(s): ane thalene, Phenol nity, TDS chorus, TKN | Sample Tin zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | (mg/L) (± 10%) (± 10%) (| (mV) (± 20%) 27.6 34.6 34.8 26.7 36.8 DER Amber VOAs /OAs pers Poly |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 100 5 100 5 100 5 100 5 100 5 100 6 100 5 100 6 | s Purged e: / zed For: X, MTBEmo SO ₄ nese | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 EEE WOR Preserv HO HO Field-filtere | 6.62 6.60 6.59 6.59 6.59 6.59 6.59 | (#S/cm (± 10%) 988 989 989 990 991 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 250 mL 1 X 250 mL 2 X Amber V | Pump Dupli /OAs bers Poly Poly /OAs | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 7.24 Cate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Phosp () VOCs | L or G /min: ple ID: te Sample Analyte(s): ane thalene, Phenol nity, TDS chorus, TKN | Sample Tin zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | (mg/L) (± 10%) (± 10%) (| (mV) (± 20%) 27.6 34.6 34.8 26.7 36.8 DER Amber VOAs /OAs pers Poly |
| (24 hrs) (every 3-5 min) 955 100 b 100 5 100 5 100 5 100 5 100 5 100 5 100 6 100 5 100 6 | s Purged e: / zed For: X, MTBEmo SO ₄ nese | (± 10%) 20 23 20 13 20 15 20 18 20 18 20 18 EEE WOR Preserv HO HO Field-filtere | 6.62 6.60 6.59 6.59 6.59 6.59 6.59 | (#S/cm (± 10%) 988 989 989 990 991 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 250 mL 1 X 250 mL 2 X Amber V | Pump Dupli /OAs bers Poly Poly /OAs | (units) (± 0.2) 7.19 7.23 7.24 7.24 7.24 7.24 Cate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Phosp () VOCs | L or G /min: ple ID: te Sample Analyte(s): ane thalene, Phenol nity, TDS chorus, TKN | Sample Tin zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | (mg/L) (± 10%) (± 10%) (| (mV) (± 20%) 27.6 34.6 34.8 26.7 36.8 DER Amber VOAs /OAs pers Poly |

Revised: 5/2/2012

| | | | G | <u>roundwat</u> | | | ata Sheet | | | |
|---|---|---|--|---|-------------------------------------|---|---|--|---|--|
| Project #: / 8 | 57/ | 2524 | Tack No: | | | ct Name: | | | ate: 9 /)8 | 1112 |
| Site Location: | 210 | 2331 | I ask No. | | DOITA | iiiioii | | | ate. / //a | 1 1 2- |
| San Lorenzo | | | | Sa | ample | r(s): | Melan | 0 | | |
| Well ID: PO | B5- | BI | Depth | to Water (| DTW) | (ft): 7 | 7 / Sampl | e DTW (ft): | | |
| Screen Interva | | | | to Bottom | | | | | ferenced to: | тос |
| Tube/Pump D | | | | iameter (ir | | | | ppm) = | | |
| CALCULATIONS | | | | | | | | FF | | |
| | | | | | | | | | | |
| Length of the wa | ter columr | : | ft - | | ft = | | ft | Volume of S | schedule 40 PV | C Pipe |
| | | | DTB | DTW | | Water Col | | Well Diame | eter. I.D | gal/linear ft. |
| | | | | | | | | 1.25 | 1.38 | 0.08 |
| | | | | | | | | | | |
| 80% of the water | r level: | | | + (| | - | | 2 | 2.067 | 0.17 |
| | | (| DTW | Water Col | l | Re | charge water level | 3 | 3.068 | 0.38 |
| | | | | | | | | 4 | 4.026 | 0.66 |
| Estimated Burgs | Volume / | | 4 | v | v | 2 | Callana | | | |
| Estimated Purge | volume (i | :PV). = | tor ool | gal/lin. ft. | - ^- | Sasina Valuma | Gallons | 6 | 6.065 | 1.5 |
| | | *** | ater cor | gainin. it. | | asing volunie: | • | 8 | 7.981 | 2.6 |
| (X) | Low-Flow | /Micro Purg | ging | | | | | 10 | 10.02 | 4.12 |
| () | Purge at | least 3 well | volumes | | | | | 12 | 11.938 | 5.81 |
| () | J | | | | | | | | 7,,,,,, | |
| () Ele (X) Per | posable B | Bailer ailer nergible Pum mp | p | () Di () Pe | sposal eristalti | Bail ischarge ble Bailer ic Pump & D | er Dedicated Tubing | (X) Y () M () H () H | ter Quality Kit SI 556 lyron L orriba anna ther: | osea: |
| Be | gin Purge | at 10 | 25 | | | | | | | |
| | 9, 690 | at ju | | | | | | | | |
| Time | Volume | Temn | | Specifi Conducti | vity | pH (units) | Color | Odor | DO (mg/l) | Redox Potential |
| Time (24 hrs) | | Temp. | DTW | Conducti (μS/cm | vity ı) | (units) | Color | Odor | (mg/L) | Potential (mV) |
| Time (24 hrs) (every 3-5 min) | Volume (G (L) | Temp. (C/°F) (± 10%) | DTW | Conducti (μS/cm (± 10% | vity i) | (units) (± 0.2) | | | (mg/L) (± 10%) | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) | Volume (G (L) | Temp. (C/ F) (± 10%) 20,29 | DTW 7.97 | Conducti (μS/cm (± 10% | vity | (units) (± 0.2) | cleur | Faint | (mg/L) (± 10%) | Potential (mV) (± 20%) |
| Time (24 hrs) (every 3-5 min) | Volume (G (L) | Temp. (C/F) (± 10%) 20.29 20.29 | DTW 7.97 7.88 | Conducti (μS/cm (± 10% / 264 / 3 / 7 | vity | (units) (± 0.2) 7.05 7.07 | Cleyr | Faint | (mg/L) (± 10%) | Potential (mV) (± 20%) -50, 4 -20, 8 |
| Time (24 hrs) (every 3-5 min) 1030 1035 | Volume (G (L) | Temp. (C) F) (± 10%) 20.29 20.29 20.30 | DTW 7.97 7.88 7.92 | Conducti (μS/cm (± 10% / 2 6 9 / 3 / 1 / 3 3 2 | vity i) / | (units) (± 0.2) 7.05 7.07 7.07 | Cleur | Foint | (mg/L) (± 10%) 0.40 0.55 | Potential (mV) (± 20%) -50, 4 -20, 8 5, 4 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 | Volume (G(L) 1, 5 2, 5 3, 5 4, 5 | Temp. (C/F) (± 10%) 20.29 20.29 20.30 20.27 | 7,97 7,88 7,92 7,89 | Conducti (μS/cm (± 10% / 26 4 / 3 / 7 / 3 3 2 / 3 3 2 | vity i) i | (units) (± 0.2) 7.05 7.07 7.07 7.06 | Cleur | Foigh | (mg/L) (± 10%) 0.40 0.55 0.52 | Potential (mV) (± 20%) -50,4 -20,8 5,4 17,9 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 | Temp. (C/F) (± 10%) 20.29 20.29 20.30 20.27 20.27 | DTW 7.97 7.88 7.92 7.89 7.88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 2 / 3 3 7 | vity | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 | Cleur | Foigh | (mg/L) (± 10%) 0.40 0.55 0.52 0.30 | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 | Volume (G(L) 1, 5 2, 5 3, 5 4, 5 | Temp. (C/F) (± 10%) 20.29 20.29 20.30 20.27 20.27 | 7,97 7,88 7,92 7,89 | Conducti (μS/cm (± 10% / 26 4 / 3 / 7 / 3 3 2 / 3 3 2 | vity | (units) (± 0.2) 7.05 7.07 7.07 7.06 | C/e4/ 11 11 | Foigh | (mg/L) (± 10%) 0.40 0.55 0.52 | Potential (mV) (± 20%) -50,4 -20,8 5,4 17,9 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 | Temp. (C/F) (± 10%) 20.29 20.29 20.30 20.27 20.27 | DTW 7.97 7.88 7.92 7.89 7.88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 2 / 3 3 7 | vity | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 | C/e4/ 11 11 | Foigh | (mg/L) (± 10%) 0.40 0.55 0.52 0.30 | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 | Temp. (C/F) (± 10%) 20.29 20.29 20.30 20.27 20.27 | DTW 7.97 7.88 7.92 7.89 7.88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 2 / 3 3 7 | vity | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 | C/e4/ 11 11 | Foigh | (mg/L) (± 10%) 0.40 0.55 0.52 0.30 | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 1050 | Volume (G(L) 1, 5 2, 5 3, 5 4, 5 4, 5 6, 5 | Temp. (C) F) (± 10%) 20.29 20.29 20.30 20.27 20.24 20.31 | DTW 7.97 7.88 7.92 7.89 7.88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 2 / 3 3 7 | vity i) / / Z | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 | C/e4/ 11 11 | Foigh | (mg/L) (± 10%) 0.40 0.55 0.52 0.30 | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 1055 | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 6, 5 | Temp. (C) F) (± 10%) 20.29 20.29 20.30 20.27 20.31 | DTW 7.97 7.88 7.92 7.89 7.88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 2 / 3 3 7 | vity i)) / z / Pum | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 | Cleur () () () () () () () () () (| Foigh | (mg/L) (± 10%) 0.55 0.40 0.55 0.52 0.30 0.29 | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1055 Liters / Gallons | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 6, 5 8 Purgeo | Temp. (C) F) (± 10%) 20.29 20.29 20.27 20.27 20.31 | DTW 7,97 7,88 7,92 7,89 7,88 7,88 | Conducti (μS/cm (± 10% / 2 6 4 / 3 1 7 / 3 3 5 / 3 3 7 / 3 3 7 | vity i)) / z / Pum | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 7.06 p Rate in licate Sam | C/e4/ ((() () () () () () () () () () () () | Faight // // // // Sample Tim | (mg/L) (± 10%) 0.55 0.40 0.55 0.30 0.29 | Potential (mV) (± 20%) -50, 4 -20, 8 5, 4 17, 9 21, 5 22, 2 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1055 Liters / Gallon Sampling Time | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 6, 5 8 Purgeo | Temp. (£ 10%) 20.29 20.29 20.27 20.27 20.31 | 7,97 7,88 7,92 7,89 7,88 7,88 | Conducti (µS/cm (± 10% / 3 / 7 / 3 3 5 / 3 3 7 / 3 3 7 / 3 3 7 | vity i)) / z / Pum | (units) (± 0.2) 7.05 7.07 7.06 7.06 7.06 p Rate in licate Sam | C/eu/ // // // L or G /min: ple ID: | Sample Tin | (mg/L) (± 10%) 0.55 0.52 0.30 0.29 | Potential (mV) (± 20%) -50, 4 -20, 8 5, 4 17, 9 21, 5 22, 2 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1055 Liters / Gallon Sampling Time Sample Analyz (√) Analyte(s): | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 6, 5 s Purgeo | Temp. (C) F) (± 10%) 20.29 20.29 20.27 20.3 / | DTW 7,97 7,88 7,92 7,89 7,88 7,88 | Conducti (µS/cm (± 10% / 2 6 4 / 3 / 7 / 3 3 5 / 3 3 7 / 3 3 7 / 3 3 7 / 3 3 7 | Pum | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 7.06 Duplicate Sam | C/eu/ // // // L or G /min: ple ID: | Sample Tin | (mg/L) (± 10%) 0.55 0.52 0.52 0.29 ne: E WORK OR | Potential (mV) (± 20%) -50, 4 -20, 8 5, 4 17, 9 21, 5 22, 2 |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1055 Liters / Gallon Sampling Time Sample Analyz (√) Analyte(s): (X) TPH-g, BTE) | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 6, 5 s Purgeo | Temp. (£ 10%) 20.29 20.29 20.27 20.27 20.3/ | DTW 7,97 7,88 7,92 7,89 7,88 7,88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 8 / 3 3 7 / 3 3 7 / 3 3 9 / 3 3 7 / 3 3 | Pum Dupli | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 7.06 Duplicate Sam | L or G /min: ple ID: e Sample Analyte(s): | Sample Tin yzed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0.40 0.55 0.52 0.30 0.29 ne: E WORK OR: 2 X 40 mL A | Potential (mV) (± 20%) -50, 4/ -20, 8 -5, 4/ 17, 9 21, 5 22, 2 DER |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 1055 1055 Liters / Gallon Sampling Time Sample Analyz (\(\bar{\}\)) Analyte(s): (\(\bar{\}\)) TPH-d & TPH (\(\)) NO2, NO3 & S | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 6, 5 s Purgeo e: czed For: | Temp. (C) F) (± 10%) (± 10%) (± 20.29 | DTW 7.97 7.88 7.92 7.89 7.88 7.88 7.88 | Conducti (µS/cm (± 10% / 2 6 4 / 3 / 7 / 3 3 5 / 3 3 7 / 3 3 7 / 3 3 7 / 3 3 7 | Pum Dupli | (units) (± 0.2) 7.05 7.07 7.06 7.06 7.06 p Rate in licate Sam Duplicat (√) Analy () TOC () Metha () Napht | L or G /min: ple ID: te(s): | Sample Tin | (mg/L) (± 10%) 0.40 0.55 0.52 0.30 0.2 9 ne: E WORK OR E Bottles: 2 X 40 mL A 3 X 40 mL A 2 x 1 L Amb | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 22 - 2 DER |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 1055 1055 Liters / Gallon Sampling Time Sample Analyz (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 6, 5 5 e: zed For: | Lemp. (C) F) (± 10%) 20.29 20.29 20.27 20.3 | DTW 7.97 7.88 7.92 7.89 7.88 7.88 7.88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 / 3 / 3 3 / 7 / 3 3 | Pum OAs Poly Poly | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 7.06 Duplicate Sam Duplicate (√) Analy () TOC () Methal () Napht () Alkalir () Al | L or G /min: ple ID: e Sample Analyte(s): ine halene, Phenol nity, TDS | Sample Tin yzed For: SE Preservative H ₂ SO ₄ HCI None None | (mg/L) (± 10%) 0.40 0.55 0.52 0.29 E WORK OR Bottles: 2 X 40 mL A 3 X 40 mL V 2 x 1 L Amb 1 X 500 mL | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 22, 2 DER Amber VOAs /OAs ers Poly |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1045 1050 1055 Liters / Gallon Sampling Time (V) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar () Dissolved Iro | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 6, 5 5 e: zed For: | Temp. (C) F) (± 10%) (± 10%) (± 10%) (± 20.29 (± 20.29 (± 20.30 (± 20.31) | 7.97 7.88 7.92 7.89 7.88 7.88 7.88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 2 / 3 3 3 7 / 3 | Pum Dupli OAs Poly Poly Poly | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 7.06 p Rate in l icate Sam Duplicate (√) Analy () TOC () Metha () Napht () Alkalir () Phosp | L or G /min: ple ID: e Sample Analyte(s): ine halene, Phenol hity, TDS phorus, TKN | Sample Tin yzed For: SE Preservative H ₂ SO ₄ HCl None None H ₂ SO ₄ | (mg/L) (± 10%) 0.40 0.55 0.52 0.52 0.29 0.29 E WORK OR 2 X 40 mL A 3 X 40 mL A 3 X 40 mL A 1 X 500 mL 1 x 500 mL | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 22, 2 DER Amber VOAs /OAs lers Poly Poly |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1050 1055 Liters / Gallon: Sampling Time (V) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO2, NO3 & S () Total Mangar () Dissolved Iro () Ferrous Iron | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 6, 5 5 e: zed For: | Temp. (C) F) (± 10%) 20,29 20,29 20,27 20,3 | 7,97 7,88 7,92 7,89 7,88 7,88 7,88 2,88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 3 / 3 3 7 / 3 3 | Pum Dupl /OAs hbers Poly Poly /OAs | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 7.06 p Rate in l icate Sam Duplicat (√) Analy () TOC () Metha () Napht () Alkalir () Phosp () VOCs | L or G /min: ple ID: e Sample Analyte(s): ine halene, Phenol hity, TDS shorus, TKN | Sample Tin yzed For: SE Preservative H ₂ SO ₄ HCI None None | (mg/L) (± 10%) 0.40 0.55 0.52 0.29 E WORK OR Bottles: 2 X 40 mL A 3 X 40 mL V 2 x 1 L Amb 1 X 500 mL | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 22, 2 DER Amber VOAs /OAs lers Poly Poly |
| Time (24 hrs) (every 3-5 min) 1030 1035 1040 1050 1055 Liters / Gallon Sampling Time (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ NO ₃ & S () Total Mangar () Dissolved Iro | Volume (G (L) 1, 5 2, 5 3, 5 4, 5 5, 5 6, 5 5 e: zed For: | Temp. (C) F) (± 10%) (± 10%) (± 10%) (± 20.29 (± 20.29 (± 20.30 (± 20.31) | 7,97 7,88 7,92 7,89 7,88 7,88 7,88 2,88 | Conducti (μS/cm (± 10% / 3 / 7 / 3 3 2 / 3 3 2 / 3 3 3 7 / 3 | Pum Dupl /OAs hbers Poly Poly /OAs | (units) (± 0.2) 7.05 7.07 7.07 7.06 7.06 7.06 p Rate in l icate Sam Duplicate (√) Analy () TOC () Metha () Napht () Alkalir () Phosp | L or G /min: ple ID: e Sample Analyte(s): ine halene, Phenol hity, TDS shorus, TKN | Sample Tin yzed For: SE Preservative H ₂ SO ₄ HCl None None H ₂ SO ₄ | (mg/L) (± 10%) 0.40 0.55 0.52 0.52 0.29 0.29 E WORK OR 2 X 40 mL A 3 X 40 mL A 3 X 40 mL A 1 X 500 mL 1 x 500 mL | Potential (mV) (± 20%) -50, 4/ -20, 8 5, 4/ 17, 9 21, 5 22, 2 DER Amber VOAs /OAs lers Poly Poly |

Revised: 5/2/2012 Stantec

| Project #: | | | | Gı | | | | ata Sheet | | | |
|--|--|---|---|--|--|--|---|--|---|---|--|
| Sam Lorenzo Sampler(s): | Project #: / 8 | 570 | 2534 | Гаsk No: | | | | | D | ate: 7 / /8 | 112 |
| Well ID: PO B 5 - A Depth to Water (DTW) (ft): 7 5 Sample DTW (ft): 8 C | Site Location: | | | | (2) | | | | | _ | |
| Screen Interval (ft): Depth to Bottom (DTB) (ft): Measurements Referenced to: TOC Tube/Pump Depth (ft): Well Diameter (inch): OVM (ppm) = | | 2 / 1 | Α. | | Sa | mple | er(s): (| Melane | ou | | |
| Tube/Pump Depth (ft): Well Diameter (inch): OVM (ppm) = | | | 1 | | | | | | | | TOO . |
| CALCULATIONS: Length of the water column: DTB | | | | | | | | | | | 100 |
| Length of the water column: | | | | well D | iameter (in | icn): | | OVINI (E | ppm) = | | |
| Book of the water level: DTW Fit Conductivity DTW Conductivi | CALCULATIONS | . | | | | | | | 7 | | |
| Book of the water level: DTW Fit Conductivity DTW Conductivi | Length of the wa | ter column | : | ft - | | ft = | | ft | Volume of S | chedule 40 PV | C Pipe |
| 1.25 | • | | | | | | | | Well Diame | ator ID | gal/linear ft |
| 80% of the water level: | | | | | | | | | | | |
| DTW | | | | | | | | | | | |
| Sample Analyzed For: SEE WORK ORDER Sampling Time: | 80% of the water | r level: | | | | | | | 2 | 2.067 | 0.17 |
| Estimated Purge Volume (EPV): | | | | DTW | Water Col | | Red | charge water level | 3 | 3.068 | 0.38 |
| Estimated Purge Volume (EPV): | | | | | | | | | 1 4 | 4.026 | 0.66 |
| (x) Low-Flow/Micro Purging () Purge at least 3 well volumes Sampling Equipment: Sampling Equipment: Bailer (x) Pump Discharge (x) Peristaltic Pump (x) Pump Discharge (x) Peristaltic Pump (x) Pump Pate (x) Pump Pa | Estimated Burgo | Volume / | ΕD\Λ· – | 4 \ | , | ~ | 2 == | Callona | | | |
| (x) Low-Flow/Micro Purging () Purge at least 3 well volumes Sampling Equipment: Sampling Equipment: Bailer (x) Pump Discharge (x) Peristaltic Pump (x) Pump Discharge (x) Peristaltic Pump (x) Pump Pate (x) Pump Pa | Estimated Fulge | volulile (t | -PV). – | ter col | gal/lin ft | 一^ , | Casing Volumes | Gallolis | | | |
| Purging Equipment: Sampling Equipment: | | | 710 | 1101 001 | gunini ita | • | Justing Volumes | , | 8 | 7.981 | 2.6 |
| Purging Equipment: Sampling Equipment: Bailer (X) Pump Discharge (X) YSI 556 (M) Myron L (Electric Submergible Pump (Dibrosable Bailer (X) Peristaltic Pump (Dibrosable Bailer (X) Pump Bodicated Tubing (Dibrosable Bailer (Dibrosable Bailer (X) Pump Bodicated Tubing (Dibrosable Bailer (Dibrosable Baile | (X) | Low-Flow | /Micro Purg | ging | | | | | 10 | 10.02 | 4.12 |
| Purging Equipment: Sampling Equipment: Bailer (X) Pump Discharge (X) YSI 556 (M) Myron L (Electric Submergible Pump (Dibrosable Bailer (X) Peristaltic Pump (Dibrosable Bailer (X) Pump Bodicated Tubing (Dibrosable Bailer (Dibrosable Bailer (X) Pump Bodicated Tubing (Dibrosable Bailer (Dibrosable Baile | () | Purge at | least 3 well | volumes | | | | | 12 | 11.938 | 5.81 |
| Time (24 hrs) | () Dis () Dis () Ele (X) Per () Oth | posable B ectric Subm ristaltic Pul ner: | Bailer ailer iergible Pum mp | p | () (X) Pu () Di () Pe | sposa eristalt | ischarge ble Bailer ic Pump & D | | (X) Y () M () H () H | SI 556 lyron L orriba anna | Used: |
| Time | DC | giii Furge | at // | 00 | | | | | | | |
| (every 3-5 min) (± 10%) (± 10%) (± 10%) (± 0.2) (± 10%) (± 10%) (± 0.2) (± 10%) (± 10%) (± 0.2) (± 10%) (± 10%) (± 0.2) (± 10%) (± 10%) (± 0.2) (± 10%) (± 10%) (± 0.2) (± 10%) (± 10%) (± 0.2) (± 10% | | gin Furge | | 00 | Specifi | С | | | | | Redox |
| | Time | Volume | Temp. | | | | рН | | | DO | |
| | Time (24 hrs) | Volume | Temp. | | Conducti (μS/cm | vity) | (units) | Color | Odor | (mg/L) | Potential (mV) |
| | Time (24 hrs) (every 3-5 min) | Volume (G /(L) | Temp. (C) °F) (± 10%) | DTW | Conducti (μS/cm (± 10% | vity) | (units) (± 0.2) | | | (mg/L) (± 10%) | Potential (mV) (± 20%) |
| Column | Time (24 hrs) (every 3-5 min) | Volume (G /(L) | Temp. (C) F) (± 10%) 21.77 | DTW | Conducti (μS/cm (± 10% | vity) | (units) (± 0.2) | | | (mg/L) (± 10%) | Potential (mV) (± 20%) |
| Column | Time (24 hrs) (every 3-5 min) | Volume (G / (1) | Temp. (C) F) (± 10%) 21.77 21.70 | DTW 7,99 8,08 | Conducti (μS/cm (± 10% | vity)) | (units) (± 0.2) 6, 93 | Cleve | Wod. | (mg/L) (± 10%) 0,37 0,32 | Potential (mV) (± 20%) - 77.2 |
| Column | Time (24 hrs) (every 3-5 min) 1 / / O 1 / / S (/ 2 O | Volume (G / (1)) | Temp. (C) F) (± 10%) 21.77 21.70 21.76 | 7,99 8,08 8,06 | Conduction (μS/cm) (± 10%) (± 15 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | vity)) | (units) (± 0.2) 6, 93 | Cleve | Wod. | (mg/L) (± 10%) 0,37 0,32 0.31 | Potential (mV) (± 20%) 77. 2 77. 6 81. 6 |
| Sample Analyzed For: SEE WORK ORDER Variable Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicat | Time (24 hrs) (every 3-5 min) 1 1 0 11 1 5 1 2 0 1 2 5 | Volume (G/Q) 1.5 2.5 3.6 3.5 | Temp. (± 10%) 21.77 21.70 21.76 21.66 | 7,99 8,08 8,06 8,06 | Conduction (μS/cm) (± 10%) (± 10%) (± 15%) (± | vity) | (units) (± 0.2) 6.93 6.94 6.95 | Cleve | Wod. | (mg/L) (± 10%) 0,37 0,32 0,31 | Potential (mV) (± 20%) - 77. 2 - 77. 6 - 87. 6 - 82. 5 |
| Sample Analyzed For: SEE WORK ORDER Variable Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicat | Time (24 hrs) (every 3-5 min) 1 1 0 11 1 5 1 2 0 1 2 5 | Volume (G/Q) 1.5 2.5 3.6 3.5 | Temp. (± 10%) 21.77 21.70 21.76 21.66 | 7,99 8,08 8,06 8,06 | Conduction (μS/cm) (± 10%) (± 10%) (± 15%) (± | vity) | (units) (± 0.2) 6.93 6.94 6.95 | Cleve | Wod. | (mg/L) (± 10%) 0,37 0,32 0,31 | Potential (mV) (± 20%) - 77. 2 - 77. 6 - 87. 6 - 82. 5 |
| Sample Analyzed For: SEE WORK ORDER Variable Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicat | Time (24 hrs) (every 3-5 min) 1 1 0 11 1 5 1 2 0 1 2 5 | Volume (G/Q) 1.5 2.5 3.6 3.5 | Temp. (± 10%) 21.77 21.70 21.76 21.66 | 7,99 8,08 8,06 8,06 | Conduction (μS/cm) (± 10%) (± 10%) (± 15%) (± | vity) | (units) (± 0.2) 6.93 6.94 6.95 | Cleve | Wod. | (mg/L) (± 10%) 0,37 0,32 0,31 | Potential (mV) (± 20%) - 77. 2 - 77. 6 - 87. 6 - 82. 5 |
| Sample Analyzed For: SEE WORK ORDER Variable Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicate Sample Duplicate Duplicat | Time (24 hrs) (every 3-5 min) 1 1 0 11 1 5 1 2 0 1 2 5 | Volume (G/Q) 1.5 2.5 3.6 3.5 | Temp. (± 10%) 21.77 21.70 21.76 21.66 | 7,99 8,08 8,06 8,06 | Conduction (μS/cm) (± 10%) (± 10%) (± 15%) (± | vity) | (units) (± 0.2) 6.93 6.94 6.95 | Cleve | Wod. | (mg/L) (± 10%) 0,37 0,32 0,31 | Potential (mV) (± 20%) - 77. 2 - 77. 6 - 87. 6 - 82. 5 |
| Sample Analyzed For: SEE WORK ORDER Variable Analyzed Analyzed For: SEE WORK ORDER | Time (24 hrs) (every 3-5 min) 1 1 0 11 1 5 1 2 0 1 2 5 | Volume (G/Q) 1.5 2.5 3.6 3.5 | Temp. (c) F) (± 10%) 21.77 21.70 21.76 21.66 | 7,99 8,08 8,06 8,06 | Conduction (μS/cm) (± 10%) (± 10%) (± 15%) (± | vity)) / / / / / / / / / / / / / / / / / | (units) (± 0.2) 6.93 6.94 6.95 | Cleve | Wod. | (mg/L) (± 10%) 0,37 0,32 0,31 | Potential (mV) (± 20%) - 77. 2 - 77. 6 - 87. 6 - 82. 5 |
| (√) Analyte(s): Preservative: Bottles: (√) Analyte(s): Preservative: Bottles: (X) TPH-g, BTEX, MTBE HCl 3 X 40 mL VOAs () TOC H₂SO₄ 2 X 40 mL Amber VOAs () TPH-d & TPH-mo HCl 2 x 0.5 L Ambers () Methane HCl 3 X 40 mL VOAs () NO₂, NO₃ & SO₄ None 1 X 500 mL Poly () Naphthalene, Phenol None 2 x 1 L Ambers () Dissolved Iron Field-filtered, HNO₃ 1 X 250 mL Poly () Phosphorus, TKN H₂SO₄ 1 x 500 mL Poly () Ferrous Iron HCl 2 X Amber VOAs () VOCs HCl 3 X 40 mL VOAs () SVOCs None 2 x 1 L Ambers () Other | Time (24 hrs) (every 3-5 min) 1 1 0 11 15 1 2 0 1 2 5 1 3 0 | Volume (G/Q) 1.5 2.5 3.6 3.5 4.0 | Temp. (C) F) (± 10%) 21.77 21.70 21.76 21.66 | 7,99 8,08 8,06 8,06 | Conduction (μS/cm) (± 10%) (± 10%) (± 15%) (± | vity)) ? | (units) (± 0.2) 6.93 6.95 6.95 6.95 | Cleve n n cr | Wod. | (mg/L) (± 10%) 0,37 0,32 0,31 | Potential (mV) (± 20%) - 77. 2 - 77. 6 - 87. 6 - 82. 5 |
| (√) Analyte(s): Preservative: Bottles: (√) Analyte(s): Preservative: Bottles: (X) TPH-g, BTEX, MTBE HCl 3 X 40 mL VOAs () TOC H₂SO₄ 2 X 40 mL Amber VOAs () TPH-d & TPH-mo HCl 2 x 0.5 L Ambers () Methane HCl 3 X 40 mL VOAs () NO₂, NO₃ & SO₄ None 1 X 500 mL Poly () Naphthalene, Phenol None 2 x 1 L Ambers () Dissolved Iron Field-filtered, HNO₃ 1 X 250 mL Poly () Phosphorus, TKN H₂SO₄ 1 x 500 mL Poly () Ferrous Iron HCl 2 X Amber VOAs () VOCs HCl 3 X 40 mL VOAs () SVOCs None 2 x 1 L Ambers () Other | Time (24 hrs) (every 3-5 min) 1 1 0 11 1 5 1 2 0 1 2 5 1 3 0 | Volume (G /Q) 1.5 2.5 3.6 3.5 4.0 | Temp. (c) F) (± 10%) 21.77 21.70 21.76 21.66 21.62 | 7,99 8,08 8,06 8,06 | Conduction (μS/cm) (± 10%) (± 10%) (± 15%) (± | vity)) Pum | (units) (± 0.2) 6.93 6.95 6.95 6.95 | e or G /min: | Wod. | (mg/L) (± 10%) 0,37 0,32 0,3/ 0,3/ | Potential (mV) (± 20%) - 77. 2 - 77. 6 - 87. 6 - 82. 5 |
| (X) TPH-g, BTEX, MTBE HCI 3 X 40 mL VOAs () TOC H ₂ SO ₄ 2 X 40 mL Amber VOAs () TPH-d & TPH-mo HCI 2 x 0.5 L Ambers () Methane HCI 3 X 40 mL VOAs () NO ₂ , NO ₃ & SO ₄ None 1 X 500 mL Poly () Naphthalene, Phenol None 2 x 1 L Ambers () Dissolved Iron Field-filtered, HNO ₃ 1 X 250 mL Poly () Phosphorus, TKN H ₂ SO ₄ 1 x 500 mL Poly () Ferrous Iron HCI 2 X Amber VOAs () VOCs HCI 3 X 40 mL VOAs () SVOCs None 2 x 1 L Ambers () Other | Time (24 hrs) (every 3-5 min) 1 | Volume (G /Q) 1.5 2.5 3.5 4.0 | Temp. (C) F) (± 10%) 21.77 21.76 21.66 21.66 | 7,99 8,08 8,06 8,06 8,06 | Conducti (μ\$/cm (± 10%) 1556 154) 1533 1529 | vity)) Pum | (units) (± 0.2) 6.93 6.95 6.95 6.95 p Rate in I | or G /min: | Wod. | (mg/L) (± 10%) 0,37 0,32 0,3/ 0,3/ 0,32 | Potential (mV) (± 20%) 77. 2 77. 6 87. 6 82. 5 82. 7 |
| () NO ₂ , NO ₃ & SO ₄ None 1 X 500 mL Poly () Naphthalene, Phenol None 2 x 1 L Ambers () Total Manganese HNO ₃ 1 X 250 mL Poly () Alkalinity, TDS None 1 X 500 mL Poly () Phosphorus, TKN H ₂ SO ₄ 1 x 500 mL Poly () Perrous Iron HCl 2 X Amber VOAs () VOCs HCl 3 X 40 mL VOAs () SVOCs None 2 x 1 L Ambers () Other | Time (24 hrs) (every 3-5 min) 1 | Volume (G /Q) 1.5 2.5 3.5 4.0 | Temp. (C) F) (± 10%) 21.77 21.76 21.66 21.62 | 7,99 8,08 8,06 8,06 8,06 | Conducti (µS/cm (± 10% 1550 154) 1533 1529 1523 | vity)) Pum | (units) (± 0.2) 6 9 3 6 9 5 6 9 5 6 9 5 6 9 5 6 9 5 Dip Rate in I | or G /min: | Sample Tinzed For: SE | (mg/L) (± 10%) 0,37 0,32 0,3/ 0,3/ 0,3/ | Potential (mV) (± 20%) 77. 2 77. 6 87. 6 82. 5 82. 7 |
| () Total Manganese HNO₃ 1 X 250 mL Poly () Alkalinity, TDS None 1 X 500 mL Poly () Dissolved Iron Field-filtered, HNO₃ 1 X 250 mL Poly () Phosphorus, TKN H₂SO₄ 1 x 500 mL Poly () Ferrous Iron HCl 2 X Amber VOAs () VOCs HCl 3 X 40 mL VOAs () SVOCs None 2 x 1 L Ambers () Other | Time (24 hrs) (every 3-5 min) 1 | Volume (G/Q) 1.5 2.5 3.5 4.0 s Purgeo | Temp. (c) F) (± 10%) 21.77 21.76 21.66 21.66 21.62 | 7,99 8,08 8,06 8,06 8,06 | Conducti (μS/cm (± 10%) 1550 154) 1529 1523 | Pum Dupl | (units) (± 0.2) 6.93 6.95 6.95 6.95 E.95 Dip Rate in I | or G /min: | Sample Tin | (mg/L) (± 10%) 0,37 0,32 0,3/ 0,3/ 0,32 | Potential (mV) (± 20%) - 77-2 - 77-6 - 87-6 - 82-5 - 82-7 |
| () Dissolved Iron Field-filtered, HNO ₃ 1 X 250 mL Poly () Phosphorus, TKN H ₂ SO ₄ 1 x 500 mL Poly () Ferrous Iron HCl 2 X Amber VOAs () VOCs HCl 3 X 40 mL VOAs () SVOCs None 2 x 1 L Ambers () Other | Time (24 hrs) (every 3-5 min) 1 | Volume (G/O) 1.5 2.5 3.6 3.5 4.0 s Purgeo | Temp. (c) F) (± 10%) 21.77 21.76 21.76 21.66 21.62 HO SEE WOR Preserv HO HO | 7,99 8,08 8,06 8,06 8,06 8,06 | Conducti (μS/cm (± 10%) 1556 1547 1533 1529 1523 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am | Pum Dupl | (units) (± 0.2) 6.93 6.94 6.95 6.95 6.95 Duplicate Sam Duplicate (√) Analy () TOC () Methal | or G /min: ple ID: e Sample Analyte(s): | Sample Tin Zed For: SE Preservative H ₂ SO ₄ HCI | (mg/L) (± 10%) 0, 3,7 0, 3,2 0, 3,7 0, 3,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0 | Potential (mV) (± 20%) - ₹₹-₹-6 - ₹₹-6 - ₹₹-5 - ₹₹-7 - ₹\$-7 - \$\$-7 - \$\$- |
| () Ferrous Iron HCI 2 X Amber VOAs () VOCs HCI 3 X 40 mL VOAs () SVOCs None 2 x 1 L Ambers () Other | Time (24 hrs) (every 3-5 min) 1 | Volume (G/O) 1.5 2.5 3.5 4.0 s Purgeo e: zed For: | Temp. (± 10%) 21.77 21.70 21.76 21.66 21.62 : 1/30 SEE WOR Preserv HO Nor | 7,99 8,08 8,06 8,06 8,06 8,06 | Conducti (μS/cm (± 10% / 5 5 6 / 5 4 7 / 5 3 3 / 5 2 9 / 5 2 3 8 Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL | Pum Dupl OAs bers Poly | (units) (± 0.2) 6.93 6.94 6.95 6.95 6.95 Duplicate Sam Duplicate (√) Analy () TOC () Methal () Napht | or G /min: ple ID: e Sample Analyte(s): ne halene, Phenol | Sample Tin zed For: SE Preservative H ₂ SO ₄ HCI None | (mg/L) (± 10%) 0, 3,7 0, 3,2 0, 3,7 0, 3,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0 | Potential (mV) (± 20%) ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬ |
| | Time (24 hrs) (every 3-5 min) 1 | Volume (G /O) 1.5 2.5 3.6 3.5 4.0 s Purgeo | Temp. (± 10%) 21.77 21.70 21.76 21.66 21.62 : SEE WOR Preserv HO Nor | DTW 7,99 8,06 8,06 8,06 Rore Side Side Side Side Side Side Side Sid | Conducti (μS/cm (± 10% / 5 5 6 / 5 4 7 / 5 3 3 / 5 2 9 / 5 2 5 2 | Pum Dupl OAs bers Poly Poly | (units) (± 0.2) 6 93 6 94 6 95 6 95 6 95 6 95 6 95 6 95 7 95 7 95 7 95 7 95 7 95 7 95 7 95 7 | or G /min: ple ID: e Sample Analy te(s): ne halene, Phenol nity, TDS | Sample Tin zed For: SE Preservative H ₂ SO ₄ HCI None None | (mg/L) (± 10%) 0, 3,7 0, 3,2 0, 3,7 0, 3,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0 | Potential (mV) (± 20%) |
| Notes: | Time (24 hrs) (every 3-5 min) 1 / / O 11 / S (/ 2 O 11 2 5 1/ 3 O Liters / Gallon Sampling Time (\(\frac{1}{2}\) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar () Dissolved Iro () Ferrous Iron | Volume (G /O) 1.5 2.5 3.6 3.5 4.0 s Purgeo | (± 10%) 21.77 21.70 21.76 21.66 21.62 E SEE WOR Preserv HO HO Field-filtere | DTW 7,99 8,06 8,06 8,06 Stock S | Conducti (μS/cm (± 10%) / 5 5 6 / 5 3 3 / 5 2 9 / 5 2 3 / 5 2 9 / 5 3 3 / 5 2 9 / 5 2 3 / 5 2 9 / 5 2 | Pum Dupl OAs bers Poly Poly OAs | (units) (± 0.2) 6 93 6 94 6 95 6 95 6 95 6 95 6 95 6 95 6 95 6 95 | or G /min: ple ID: e Sample Analyte(s): ne halene, Phenol nity, TDS shorus, TKN | Sample Tin zed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0, 3,7 0, 3,2 0, 3,7 0, 3,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0 | Potential (mV) (± 20%) |
| | Time (24 hrs) (every 3-5 min) 1 / / O 11 / S (/ 2 O 11 2 5 1/ 3 O Liters / Gallon Sampling Time (\(\frac{1}{2}\) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar () Dissolved Iro () Ferrous Iron | Volume (G /O) 1.5 2.5 3.6 3.5 4.0 s Purgeo | (± 10%) 21.77 21.70 21.76 21.66 21.66 21.62 I: SEE WOR Preserv HO HO HNO Field-filtere HO | DTW 7,99 8,06 8,06 8,06 Stock S | Conducti (μS/cm (± 10%) / 5 5 6 / 5 3 3 / 5 2 9 / 5 2 3 / 5 2 9 / 5 3 3 / 5 2 9 / 5 2 3 / 5 2 9 / 5 2 | Pum Dupl OAs bers Poly Poly OAs | (units) (± 0.2) 6 93 6 94 6 95 6 95 6 95 6 95 6 95 6 95 6 95 6 95 | or G /min: ple ID: e Sample Analyte(s): ne halene, Phenol nity, TDS shorus, TKN | Sample Tin zed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0, 3,7 0, 3,2 0, 3,7 0, 3,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0 | Potential (mV) (± 20%) |

Revised: 5/2/2012 Stantec

| | | | G | roundwater S | Sampling D | Data Sheet | | | |
|---|---|--|---|--|--|---|--|---|--|
| | | | | Pro | ject Name: | | | 92 VO. | 24 9 0 |
| Project #: /8 | | 2534 T | ask No: | Bol | nannon | | D | ate: 9 / <i> 19</i> | 112 |
| Site Location | : | 7.5 | | | at sow the | | | | |
| San Lorenzo | | | | | | Melauco | | | |
| Well ID: /V | | | | to Water (DTV | | | DTW (ft): | | |
| Screen Interv | | | | to Bottom (DT | | | | erenced to: | 100 |
| Tube/Pump D CALCULATION | | | well D | iameter (inch) | : 2 | OVM (p | pm) = | | |
| CALCULATION | 5 . | | | | | | | | |
| Length of the wa | iter column | · — | ft - | | = | ft | Volume of S | chedule 40 PV | C Pipe |
| | | Į. | DTB | DTW | Water Col | | Well Diame | ter. I.D | gal/linear ft. |
| | | | | | | | 1.25 | 1.38 | 0.08 |
| 80% of the wate | r level: | | ft - | + <u>(</u> | X 0.2) = | ft | 2 | 2.067 | 0.17 |
| | | | otw | Water Col | Re | charge water level | 3 | 3.068 | 0.38 |
| | | | | | | | 4 | 4.026 | 0.66 |
| 5. C | 17.1 | -D) () | | | | 0 | | | |
| Estimated Purge | : Volume (I | =PV): = | m 2 | gal/lin. ft. | 3 = | Gallons | 6 | 6.065 | 1.5 |
| | | vva | iter coi | gai/iiri. it. | Casing volumes | • | 8 | 7.981 | 2.6 |
| (X) | Low-Flow | /Micro Purg | ging | | | | 10 | 10.02 | 4.12 |
| () | Purge at | least 3 well | volumes | | | | 12 | 11.938 | 5.81 |
| () Dis () Ele (X) Pe () Otl | sposable B ectric Subm ristaltic Pu her: | Bailer ailer nergible Pum mp | | () Perista | sable Bailer | ler Dedicated Tubing | (X) YS () M () Ho () Ho | yron L orriba | Used: |
| H.C | anin Piirae | at // | | | | | | | |
| В | gin Purge | | 10 | Specific | 1 | | 1 | | Redox |
| Time | | Temp. | 10 | Specific Conductivity | На | | | DO | Redox Potential |
| | Volume | Temn | DTW | | pH (units) | Color | Odor | DO (mg/L) | |
| Time | Volume | Temp. | | Conductivity | | Color | Odor | | Potential |
| Time ^ (24 hrs) | Volume | Temp. | | Conductivity (μS/cm) | (units) | Color | Odor | (mg/L) | Potential (mV) |
| Time - (24 hrs) (every 3-5 min) 1/45 | Volume (G (L)) | Temp. (C)°F) (± 10%) 23.48 23.50 | DTW 7.41 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 ≤ | (units) (± 0.2) 7-11 7-09 | | | (mg/L) (± 10%) 0:55 | Potential (mV) (± 20%) -8C-0 |
| Time (24 hrs) (every 3-5 min) 1/45 1/50 | Volume (G.L.) | Temp. (c) °F) (± 10%) 23.48 23.50 23.54 | 7.41 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / | (units) (± 0.2) 7-// 7-09 7-08 | Clear | wod | (mg/L) (± 10%) 0.55 0.7/ 0.30 | Potential (mV) (± 20%) -85.0 -79.2 -68.7 |
| Time - (24 hrs) (every 3-5 min) 1/45 1/50 1/55 1/200 | Volume (G.L.) | Temp. (C)°F) (± 10%) 23.48 23.50 | DTW 7.41 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 ≤ | (units) (± 0.2) 7-11 7-09 | Clear | wod | (mg/L) (± 10%) 0:55 | Potential (mV) (± 20%) -8C-0 |
| Time (24 hrs) (every 3-5 min) 1/45 1/50 | Volume (G.L.) | Temp. (c) °F) (± 10%) 23.48 23.50 23.54 | 7.41 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / | (units) (± 0.2) 7-// 7-09 7-08 | Clear | wod | (mg/L) (± 10%) 0.55 0.7/ 0.30 | Potential (mV) (± 20%) -85.0 -79.2 -68.7 |
| Time - (24 hrs) (every 3-5 min) 1/45 1/50 1/55 1/200 | Volume (G.L.) | Temp. (c) °F) (± 10%) 23.48 23.50 23.54 | 7.41 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / | (units) (± 0.2) 7-// 7-09 7-08 | Clear | wod | (mg/L) (± 10%) 0.55 0.7/ 0.30 | Potential (mV) (± 20%) -85.0 -79.2 -68.7 |
| Time - (24 hrs) (every 3-5 min) 1/45 1/50 1/55 1/200 | Volume (G.L.) | Temp. (c) °F) (± 10%) 23.48 23.50 23.54 | 7.41 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / | (units) (± 0.2) 7-// 7-09 7-08 | Clear | wod | (mg/L) (± 10%) 0.55 0.7/ 0.30 | Potential (mV) (± 20%) -85.0 -79.2 -68.7 |
| Time - (24 hrs) (every 3-5 min) 1/45 1/50 1/55 1/200 | Volume (G.L.) | Temp. (c) °F) (± 10%) 23.48 23.50 23.54 | 7.41 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / | (units) (± 0.2) 7-// 7-09 7-08 | Clear | wod | (mg/L) (± 10%) 0.55 0.7/ 0.30 | Potential (mV) (± 20%) -85.0 -79.2 -68.7 |
| Time - (24 hrs) (every 3-5 min) 1/45 1/50 1/55 1/200 | Volume (G.(L)) 1,5 2,5 3,5 4,5 | Temp. (C) F) (± 10%) 23.48 23.50 23.54 23.61 | 7.41 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / / 3 3 2 | (units) (± 0.2) 7.11 7.09 7.03 | Clear | wod | (mg/L) (± 10%) 0.55 0.7/ 0.30 | Potential (mV) (± 20%) -85.0 -79.2 -68.7 |
| Time (24 hrs) (every 3-5 min) 1/ 4 5 1/ 5 0 1/ 5 5 1/ 2 0 0 1/2 0 5 | Volume (G LL) | Temp. (± 10%) 23.48 23.50 23.54 | 7.41 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / / 3 3 2 | (units) (± 0.2) 7.11 7.09 7.03 | tr cr cr L or G /min: | wod | (mg/L) (± 10%) 0.55 0.7/ 0.30 0.29 | Potential (mV) (± 20%) -85.0 -79.2 -68.7 |
| Time (24 hrs) (every 3-5 min) 1/ 4 5 1/ 5 0 1/ 5 5 1/ 2 0 0 1/ 2 0 5 Liters / Gallon Sampling Tim | Volume (G (L)) 1,5 2,5 3,5 4,5 4,5 | Temp. (C)°F) (± 10%) 23.48 23.50 23.54 23.61 | 7.41 7.37 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 2 / 3 3 2 Pu Du | (units) (± 0.2) 7.09 7.03 mp Rate in | L or G /min: | ice ce | (mg/L) (± 10%) 0.55 0.7/ 0.30 0.29 | Potential (mV) (± 20%) -85-0 -79-2 -68-7 -69-5 |
| Time (24 hrs) (every 3-5 min) 1/ 4 5 1/ 5 0 1/ 5 5 1/ 2 0 0 1/ 2 0 5 Liters / Gallon Sampling Tim Sample Analy | Volume (G (L)) 1,5 2,5 3,5 4,5 4,5 | Temp. (C)°F) (± 10%) 23.48 23.50 23.54 23.61 | 7.41 7.37 7.39 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 2 / 3 3 2 Pu Du | (units) (± 0.2) 7.09 7.03 mp Rate in | L or G /min: | ice ce | (mg/L) (± 10%) 0.55 0.4/ 0.30 0.29 | Potential (mV) (± 20%) -85-0 -79-2 -68-7 -69-5 |
| Time (24 hrs) (every 3-5 min) 1/ 4 S 1/ 5 O 1/ 5 S 1/ 2 Ø O 1/2 O | Volume (G (L)) | Temp. (C) °F) (± 10%) 23.48 23.50 23.54 23.61 SEE WOR Preserv | 7.41 7.37 7.39 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / / 3 3 2 Pu Du R Bottles: 3 X 40 mL VOAs | (units) (± 0.2) ¬ // ¬ / 0 9 ¬ / 0 8 ¬ / 0 8 mp Rate in plicate Sam Duplicate (√) Analy S () TOC | L or G /min: te Sample Analyzite(s): | Sample Tin zed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0.55 0.4/ 0.30 0.29 He: E WORK OR: 2 X 40 mL A | Potential (mV) (± 20%) -87-2 -68-7 -69-5 DER |
| Time (24 hrs) (every 3-5 min) 1/ 4 S 1/ 5 O 1/ 5 S 1/ 2 Ø O 1/2 O | Volume (G (L)) 1.5 2.5 3.5 4.5 4.5 e: /2 zed For: | Temp. (C) °F) (± 10%) 23.48 23.50 23.54 23.61 SEE WOR Preserv | 7.41 7.37 7.39 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / / 3 3 2 Pu Du R Bottles: 3 X 40 mL VOAs 2 x 0.5 L Ambers | (units) (± 0.2) | L or G /min: te Sample Analyzate(s): | Sample Tin | (mg/L) (± 10%) 0.55 0.7/ 0.30 0.29 The: E WORK OR: 2 X 40 mL A 3 X 40 mL A | Potential (mV) (± 20%) -87-0 -79-2 -68-7 -69-5 DER |
| Time (24 hrs) (every 3-5 min) 1/ 4 S 1/ 5 O 1/ 5 S 1/ 2 O O 1/2 O S Liters / Gallon Sampling Tim Sample Analy (√) Analyte(s): (X) TPH-g, BTE () TPH-d & TPI () NO ₂ , NO ₃ & 3 | Volume (G (L)) /- 5 2.5 3.5 4.5 s Purgeo e: /2 zed For: | Temp. (± 10%) 23.48 23.50 23.54 23.61 SEE WOR Preserv HC Non | DTW 7.41 7.39 7.39 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / / 3 3 2 Pu Du R Bottles: 3 X 40 mL VOAs 2 x 0.5 L Amber 1 X 500 mL Poly | (units) (± 0.2) | L or G /min: te Sample Analyze te(s): ane thalene, Phenol | Sample Tim zed For: SE Preservative H ₂ SO ₄ HCI None | (mg/L) (± 10%) 0.55 0.7/ 0.30 0.29 1 | Potential (mV) (± 20%) -86,-0 -79,-2 -68,-7 -69,-5 DER Amber VOAs /OAs ers |
| Time (24 hrs) (every 3-5 min) 1/ 4 S 1/ 5 O 1/ 5 S 1/ 2 Ø O 1/2 O | Volume (G (L)) /-5 2.5 3.5 4.5 4.5 e: /2 zed For: | Temp. (C) °F) (± 10%) 23.48 23.50 23.54 23.61 SEE WOR Preserv | DTW 7.41 7.37 7.39 7.39 7.39 8.39 8.39 8.39 8.39 8.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / / 3 3 2 Pu Du R Bottles: 3 X 40 mL VOAs 2 x 0.5 L Ambers | (units) (± 0.2) 7.09 7.09 7.09 7.09 Plicate Sam Duplicate (√) Analysis () TOC () Naphir () Alkalii | L or G /min: te Sample Analyzate(s): | Sample Tin | (mg/L) (± 10%) 0.55 0.7/ 0.30 0.29 The: E WORK OR: 2 X 40 mL A 3 X 40 mL A | Potential (mV) (± 20%) -31-0 -79-2 -68-7 -69-5 DER Amber VOAs /OAs ers Poly |
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| Time (24 hrs) (every 3-5 min) 1/ 4 S 1/ 5 O 1/ 5 S 1/ 2 O O 1/ 2 O 1/ 3 S 1/ 4 S 1/ 5 O 1/ 5 S 1/ 6 O 1/ 7 S 1/ 8 O 1/ 8 O 1/ 9 O 1/ 1 S 1/ 1 S 1/ 2 O 1/ 2 O 1/ 3 S 1/ 4 S 1/ 5 O 1/ 5 | Volume (G (L)) /-5 2.5 3.5 4.5 4.5 e: /2 zed For: | Temp. (± 10%) 23.48 23.50 23.54 23.61 I: SEE WOR Preserv HC HC Non HNC Field-filtere | 7.41 7.39 7.39 7.39 7.39 7.39 7.39 7.39 | Conductivity (μS/cm) (± 10%) /3 0 6 /3 2 3 / 3 3 / / 3 3 3 2 / 3 | (units) (± 0.2) 7.09 7.09 7.09 Plicate Sam Duplicate (√) Analysis () TOC (√) () Methata () () Naphita () () Phospital () Phospital () () () Phospital () () () () () () () () () (| L or G /min: te Sample Analyze te Sample Analyze thalene, Phenol nity, TDS chorus, TKN | Sample Tim zed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0.55 0.4/ 0.30 0.29 E WORK OR: E Bottles: 2 X 40 mL A 3 X 40 mL A 2 x 1 L Amb 1 X 500 mL | Potential (mV) (± 20%) -85-0 -79-2 -68-7 -69-5 DER Amber VOAs /OAs ers Poly Poly |
| Time (24 hrs) (every 3-5 min) 1/ 4 5 1/ 5 0 1/ 5 5 1/ 2 0 0 1/ 2 0 1/ 5 5 1/ 2 0 0 1/ 5 5 1/ 2 0 0 1/ 5 5 1/ 5 0 1/ 5 5 1/ 6 0 Liters / Gallon Sampling Tim Sample Analy (√) Analyte(s): (X) TPH-g, BTE. (X) TPH-d & | Volume (G (L)) /-5 2.5 3.5 4.5 4.5 e: /2 zed For: | Temp. (± 10%) 23.48 23.50 23.54 23.61 I: SEE WOR Preserv HC HC HNO HNO Field-filtere | 7.41 7.39 7.39 7.39 7.39 7.39 7.39 7.39 | Conductivity (μS/cm) | (units) (± 0.2) 7.09 7.09 7.09 mp Rate in plicate Sam Duplicate (√) Analy (s) () Methat (v) () Alkalit (v) () Phosp (v) () VOCs (v) () VOCs (v) () VOCs | L or G /min: te Sample Analyze te Sample Analyze thalene, Phenol nity, TDS chorus, TKN | Sample Tim zed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0.55 0.4/ 0.30 0.29 E WORK OR: E Bottles: 2 X 40 mL A 3 X 40 mL A 2 x 1 L Amb 1 X 500 mL | Potential (mV) (± 20%) -85-0 -79-2 -68-7 -69-5 DER Amber VOAs /OAs ers Poly Poly |
| Time (24 hrs) (every 3-5 min) 1/ 4 S 1/ 5 O 1/ 5 S 1/ 2 O O 1/ 2 O 1/ 2 O 1/ 3 S 1/ 4 S 1/ 5 O 1/ 5 S 1/ 6 O 1/ 7 S 1/ 8 O 1/ 9 S Liters / Gallon Sampling Tim Sample Analy (1/) Analyte(s): (X) TPH-g, BTE: (X) TPH-g, BTE: (Y) TPH-d & TPI (Y) NO2, NO3 & S (Y) TOTAL Manga (Y) Dissolved Iron (Y) Ferrous Iron (Y) SVOCs | Volume (G (L)) /-5 2.5 3.5 4.5 4.5 e: /2 zed For: | Temp. (± 10%) 23.48 23.50 23.54 23.61 I: SEE WOR Preserv HC HC HNO HNO Field-filtere | 7.41 7.39 7.39 7.39 7.39 7.39 7.39 7.39 | Conductivity (μS/cm) | (units) (± 0.2) 7.09 7.09 7.09 mp Rate in plicate Sam Duplicate (√) Analy (s) () Methat (v) () Alkalit (v) () Phosp (v) () VOCs (v) () VOCs (v) () VOCs | L or G /min: te Sample Analyze te Sample Analyze thalene, Phenol nity, TDS chorus, TKN | Sample Tim zed For: SE Preservative H ₂ SO ₄ | (mg/L) (± 10%) 0.55 0.4/ 0.30 0.29 E WORK OR: E Bottles: 2 X 40 mL A 3 X 40 mL A 2 x 1 L Amb 1 X 500 mL | Potential (mV) (± 20%) -85-0 -79-2 -68-7 -69-5 DER Amber VOAs /OAs ers Poly Poly |

Revised: 5/2/2012 Stantec

| | | | G | | | | Data Sheet | | | |
|---|---|--|------------|--|--|---|---|--|--|--|
| Destruct H. J. | ·~30 | 5-24 | Faala Nias | | | ct Name: | | , n | . 0 110 | |
| Project #: / > Site Location: | | 2539 | ask No: | | Boha | nnon | | D | ate: 9 1/8 | 1/2 |
| San Lorenzo | • | | | Sa | mple | r(s): | Melage | | | |
| Well ID: POP | 25 - R | 2 | Depth | to Water (I | DTW) | (ft): 7 | 9 Sample | DTW (ft): | 8-08 | |
| Screen Interva | | | | to Bottom | | | | | erenced to: | тос |
| Tube/Pump D | epth (ft): | | | Diameter (in | | | OVM (p | pm) = - | | |
| CALCULATIONS | S: | | | | | | | | | |
| Length of the wa | ter column | ·· | ft | 9:0 | # - | | 4 | Volume of S | Schedule 40 PV | C Dino |
| Length of the wa | itei coluiili | 171 | DTB " | DTW | | Water Col | it. | | | · |
| | | | | | | | | Well Diame | eter. I.D | gal/linear ft. |
| | | | | | | | | 1.25 | 1.38 | 0.08 |
| 80% of the water | r level: | | | + (| | | | 2 | 2.067 | 0.17 |
| | | | DTW | Water Col | | Re | charge water level | 3 | 3.068 | 0.38 |
| | | | | | | | | 4 | 4.026 | 0.66 |
| Estimated Purge | Volume (F | =P\/)· = | ft | X | x | 3 = | Gallons | 6 | 6.065 | 1.5 |
| Estimated Purge | (- | Wa | ter col | gal/lin. ft. | — ^ c | asing Volume | s | 8 | | |
| (34) | | ./A.A.: | | | | | | | 7.981 | 2.6 |
| | | /Micro Puro | | | | | | 10 | 10.02 | 4.12 |
| () | Purge at | least 3 well | volumes | | | | | 12 | 11.938 | 5.81 |
| (X) Ele (X) Per () Oth | posable B | Bailer ailer nergible Pum mp | | () Di: () Pe | sposat eristalti | _Bail scharge ble Bailer c Pump & D | ler Dedicated Tubing | (X) Y: () M () H () H | | Used: |
| Ве | gin Purge | at / | | Specifi | | | | 1 | | 1 B. J. 1 |
| Time (24 hrs) | Volume (G (Ĺ) | Temp. (°C / °F) | DTW | Conductive (µS/cm | vity | pH (units) | Color | Odor | DO (mg/L) | Redox Potential (mV) |
| (every 3-5 min) | | (± 10%) | | (± 10% |) | (± 0.2) | | | (± 10%) | (± 20%) |
| 1210 | | 22.33 | | | | 7.30 | 0/80- | 4044 | 0,48 | -50.9 |
| 1215 | | 22.63 | 8.38 | | | 7.23 | " | 11 | 0.38 | -43.1 |
| 1220 | | 23.23 | 8.16 | 1084 | | 7,21 | " | 11 | 0,37 | -29.8 |
| 1225 | | 23.40 | 8.08 | 1088 | | 7,21 | " | 01 | 0.29 | -23.4 |
| 1230 | 4.0 | (7:17 | 8,08 | 1089 | | 7.21 | | | 0,28 | -22,3 |
| | | | | | - | | | | | |
| | | | | 1 | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Liters / Gallon | s Purgeo | l: | | | Pump | Rate in | L or G /min: | | | |
| | | 230 | | | | o Rate in l | | Sample Tin | ne: | |
| Sampling Time | e: /2 | 230 | K ORDE | R | | cate Sam | ple ID: | | | DER |
| Sampling Time Sample Analy: (√) Analyte(s): | e: /2 zed For: | 230 SEE WOR | ative: | Bottles: | Dupli | Duplicat | ple ID: te Sample Analy | zed For: SE Preservative | E WORK OR | |
| Sampling Time Sample Analy: (√) Analyte(s): (X) TPH-g, BTE) | e: /2 zed For: | 2 3 0 SEE WOR Preserv | ative: | Bottles: 3 X 40 mL V | Dupli | Duplicat | ple ID: te Sample Analy te(s): | zed For: SE Preservative H ₂ SO ₄ | E WORK OR Bottles: 2 X 40 mL A | Amber VOAs |
| Sampling Time Sample Analyz (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH | e: /2 zed For: X, MTBE | SEE WOR Preserv | ative: | Bottles: 3 X 40 mL V 2 x 0.5 L Am | Dupli OAs bers | Duplicat | ple ID: te Sample Analy te(s): | zed For: SE Preservative H ₂ SO ₄ HCI | E WORK OR Bottles: 2 X 40 mL A 3 X 40 mL \ | Amber VOAs /OAs |
| Sampling Time Sample Analy: (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar | e: /2 zed For: K, MTBE H-mo SO ₄ nese | SEE WOR Preserv HO Nor | ative: | Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL | OAs bers Poly Poly | Duplicat (√) Analy () TOC () Metha () Napht () Alkalii | ple ID: te Sample Analy te(s): ane thalene, Phenol nity, TDS | zed For: SE Preservative H ₂ SO ₄ | E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL N 2 x 1 L Amb 1 X 500 mL | Amber VOAs /OAs pers Poly |
| Sampling Time Sample Analy: (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO₂, NO₃ & § () Total Mangar () Dissolved Iro | e: /2 zed For: K, MTBE H-mo SO ₄ nese | Preserv HO Nor HNO Field-filtere | ative: | Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL | OAs bers Poly Poly | Duplicat \(\forall \) Analy \(\) TOC \(\) Metha \(\) Napht \(\) Alkalin \(\) Phosp | ple ID: te Sample Analy te(s): ane thalene, Phenol hity, TDS bhorus, TKN | zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL N 2 x 1 L Amb 1 X 500 mL 1 x 500 mL | Amber VOAs /OAs pers Poly Poly |
| Sampling Time Sample Analy: (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar | e: /2 zed For: K, MTBE H-mo SO ₄ nese | SEE WOR Preserv HO Nor | ative: | Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL 2 X Amber V | OAs abers Poly Poly Poly (OAs | Duplicat \(\forall \) Analy () TOC () Metha () Napht () Alkalin () Phosp () VOCs | ple ID: te Sample Analy rte(s): ane thalene, Phenol nity, TDS phorus, TKN | zed For: SE Preservative H ₂ SO ₄ HCI None None | E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL N 2 x 1 L Amb 1 X 500 mL | Amber VOAs /OAs pers Poly Poly |
| Sampling Time Sample Analy: (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar () Dissolved Iro () Ferrous Iron () SVOCs | e: /2 zed For: K, MTBE H-mo SO ₄ nese | Preserv HC HC Nor HNC Field-filtere | ative: | Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL | OAs abers Poly Poly Poly (OAs | Duplicat \(\forall \) Analy \(\) TOC \(\) Metha \(\) Napht \(\) Alkalin \(\) Phosp | ple ID: te Sample Analy rte(s): ane thalene, Phenol nity, TDS phorus, TKN | zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL N 2 x 1 L Amb 1 X 500 mL 1 x 500 mL | Amber VOAs /OAs pers Poly Poly |
| Sampling Time Sample Analy: (√) Analyte(s): (X) TPH-g, BTE) () TPH-d & TPH () NO ₂ , NO ₃ & S () Total Mangar () Dissolved Iro () Ferrous Iron () SVOCs | e: /2 zed For: K, MTBE H-mo SO ₄ nese | Preserv HC HC Nor HNC Field-filtere | ative: | Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL 2 X Amber V | OAs abers Poly Poly Poly (OAs | Duplicat \(\forall \) Analy () TOC () Metha () Napht () Alkalin () Phosp () VOCs | ple ID: te Sample Analy rte(s): ane thalene, Phenol nity, TDS phorus, TKN | zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL N 2 x 1 L Amb 1 X 500 mL 1 x 500 mL | Amber VOAs /OAs pers Poly Poly |
| () NO₂, NO₃ & Ṣ () Total Mangar () Dissolved Iro () Ferrous Iron | e: /2 zed For: K, MTBE H-mo SO ₄ nese | Preserv HC HC Nor HNC Field-filtere | ative: | Bottles: 3 X 40 mL V 2 x 0.5 L Am 1 X 500 mL 1 X 250 mL 1 X 250 mL 2 X Amber V | OAs abers Poly Poly Poly (OAs | Duplicat \(\forall \) Analy () TOC () Metha () Napht () Alkalin () Phosp () VOCs | ple ID: te Sample Analy rte(s): ane thalene, Phenol nity, TDS phorus, TKN | zed For: SE Preservative H ₂ SO ₄ HCI None None H ₂ SO ₄ | E WORK OR : Bottles: 2 X 40 mL A 3 X 40 mL N 2 x 1 L Amb 1 X 500 mL 1 x 500 mL | Amber VOAs /OAs pers Poly Poly |

Revised: 5/2/2012



CHAIN OF CUSTODY RECORD

| | Stantec Stantec Lafayette Office | Stantec C | ompany C | ontac | t(s) fo | r Invoid | e: | | | Stant | ec Project# | | DATE: | 9-1 | 8-1 | Z | |
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| | 57 Lafayette Circle, 2nd Floor Lafayette, CA 94549 TEL:(925) 299-9300 FAX:(925)299-9302 | | anager: M son.albrcl | | | | | | | 185 | 702534 | | PAGE: | | | / OF | , |
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| | 575 Paseo Grande, Sa | ın Lorenzo (| CA | | | | Char | les Melancon s) Signature; | - | | Lab Use Or | dv. | | estAm | erica | | |
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| ONLY | TB-1 | DATE | TIME | - | - | | _ | | | | | | | | | | _aboratory Notes |
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APPENDIX C Laboratory Analytical Report and Chain-of-Custody for the September 2012 Groundwater Monitoring Event

Third Quarter 2012 Groundwater Monitoring Report
David D. Bohannon Organization
575 Paseo Grande
San Lorenzo, California
Stantec PN: 185702534
December 21, 2012

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 720-44599-1

Client Project/Site: Bohannon San Lorenzo

For:

Stantec Consulting Corp. 57 Lafayette Circle 2nd Floor Lafayette, California 94549-4321

Attn: Mr. Mason Albrecht



Authorized for release by: 9/26/2012 4:14:43 PM

Afsaneh Salimpour Project Manager I

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----- LINKS -----

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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.

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

TestAmerica Job ID: 720-44599-1

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Definitions/Glossary

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

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 720-44599-1

Glossary

TEQ

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|--|
| \tilde{\ | 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 |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |

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Case Narrative

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

TestAmerica Job ID: 720-44599-1

Job ID: 720-44599-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-44599-1

Comments

No additional comments.

Receipt

The samples were received on 9/18/2012 2:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

No analytical or quality issues were noted.

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

TestAmerica Job ID: 720-44599-1

Client Sample ID: TB-1 Lab Sample ID: 720-44599-1

No Detections

Client Sample ID: MW-4 Lab Sample ID: 720-44599-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------|--------|-----------|------|-----|------|---------|---|---------------|-----------|
| Benzene | 25 | | 0.50 | | ug/L | 1 | _ | 8260B/CA_LUFT | Total/NA |
| | | | | | | | | MS | |
| Ethylbenzene | 1.2 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFT | Total/NA |
| | | | | | | | | MS | |
| Toluene | 4.2 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFT | Total/NA |
| | | | | | | | | MS | |
| Xylenes, Total | 3.6 | | 1.0 | | ug/L | 1 | | 8260B/CA_LUFT | Total/NA |
| | | | | | | | | MS | |
| Gasoline Range Organics (GRO) | 1400 | | 50 | | ug/L | 1 | | 8260B/CA_LUFT | Total/NA |
| -C5-C12 | | | | | | | | MS | |

Client Sample ID: NOBS-B1 Lab Sample ID: 720-44599-3

No Detections

Client Sample ID: POBS-B1 Lab Sample ID: 720-44599-4

No Detections

Client Sample ID: POBS-A1 Lab Sample ID: 720-44599-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|-----|------|---------|---|---------------------|-----------|
| Benzene | 1100 | | 5.0 | | ug/L | 10 | _ | 8260B/CA_LUFT MS | Total/NA |
| Ethylbenzene | 8.3 | | 5.0 | | ug/L | 10 | | 8260B/CA_LUFT MS | Total/NA |
| Toluene | 27 | | 5.0 | | ug/L | 10 | | 8260B/CA_LUFT MS | Total/NA |
| Xylenes, Total | 18 | | 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: 720-44599-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--|--------|-----------|------|-----|------|---------|---|---------------------|-----------|
| Benzene | 4.7 | | 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: POBS-B2 Lab Sample ID: 720-44599-7

No Detections

Client Sample ID: MW-3 Lab Sample ID: 720-44599-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|------|-----|------|---------|---|---------------------|-----------|
| Benzene | 110 | | 0.50 | | ug/L | 1 | _ | 8260B/CA_LUFT | Total/NA |
| Ethylbenzene | 0.66 | | 0.50 | | ug/L | 1 | | MS 8260B/CA_LUFT | Total/NA |
| Toluene | 2.6 | | 0.50 | | ug/L | 1 | | MS 8260B/CA LUFT | Total/NA |
| | | | | | Ü | | | MS | |

Detection Summary

Client: Stantec Consulting Corp. Project/Site: Bohannon San Lorenzo TestAmerica Job ID: 720-44599-1

Client Sample ID: MW-3 (Continued)

| Lab | Sample | e ID: | 720 | -445 | 99-8 |
|-----|--------|-------|-----|------|------|
| | | | | | |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------|--------|-----------|-----|-----|------|---------|---|---------------|-----------|
| Xylenes, Total | 1.2 | | 1.0 | | ug/L | 1 | _ | 8260B/CA_LUFT | Total/NA |
| | | | | | | | | MS | |
| Gasoline Range Organics (GRO) | 480 | | 50 | | ug/L | 1 | | 8260B/CA_LUFT | Total/NA |
| -C5-C12 | | | | | | | | MS | |

| Dil Fac | D | Method | Prep Type |
|---------|---|---------------|-----------|
| 1 | _ | 8260B/CA_LUFT | Total/NA |
| | | MS | |
| 1 | | 8260B/CA_LUFT | Total/NA |

Client Sample ID: DUP

| Lab Sam | ple | ID: | 720-44 | 599-9 |
|----------------|-----|-----|--------|-------|
| | | | | |

| Analyte | Result | Qualifier F | L MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-------------|-------|------|---------|---|---------------------|-----------|
| Benzene | 100 | 0.8 | 50 | ug/L | 1 | | 8260B/CA_LUFT MS | Total/NA |
| Ethylbenzene | 0.62 | 0.8 | 50 | ug/L | 1 | | 8260B/CA_LUFT MS | Total/NA |
| Toluene | 2.4 | 9.0 | 50 | ug/L | 1 | | 8260B/CA_LUFT MS | Total/NA |
| Xylenes, Total | 1.1 | 1 | .0 | ug/L | 1 | | 8260B/CA_LUFT MS | Total/NA |
| Gasoline Range Organics (GRO) -C5-C12 | 440 | ŧ | 50 | ug/L | 1 | | 8260B/CA_LUFT MS | Total/NA |

Client: Stantec Consulting Corp.

TestAmerica Job ID: 720-44599-1

Project/Site: Bohannon San Lorenzo

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

| Date Received: 09/18/12 14:25 | | | | | | | | • | 44599-1 k: Water |
|---------------------------------------|----------|-----------|---------------------|-----|------|---|----------|----------------|---------------------|
| | | 0 115 | - | | | _ | | | D.: - |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.50 | | ug/L | | | 09/19/12 13:15 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 09/19/12 13:15 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 09/19/12 13:15 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 09/19/12 13:15 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 50 | | ug/L | | | 09/19/12 13:15 | 1 |
| Surrogate %F | Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene | 102 | | 67 - 130 | | | _ | | 09/19/12 13:15 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 75 ₋ 138 | | | | | 09/19/12 13:15 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 09/19/12 13:15 | 1 |

| Client Sample ID: MW-4 | | | | | | | Lab | Sample ID: 720- | 44599-2 |
|--------------------------------|--------|-----------|------|-----|------|---|----------|-----------------|----------|
| Date Collected: 09/18/12 09:40 | | | | | | | | Matrix | c: Water |
| Date Received: 09/18/12 14:25 | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | 25 | | 0.50 | | ug/L | | | 09/19/12 13:44 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--|---|---|---|---|--|--|--|---|
| Benzene | 25 | | 0.50 | | ug/L | | | 09/19/12 13:44 | 1 |
| Ethylbenzene | 1.2 | | 0.50 | | ug/L | | | 09/19/12 13:44 | 1 |
| Toluene | 4.2 | | 0.50 | | ug/L | | | 09/19/12 13:44 | 1 |
| Xylenes, Total | 3.6 | | 1.0 | | ug/L | | | 09/19/12 13:44 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | 1400 | | 50 | | ug/L | | | 09/19/12 13:44 | 1 |
| | Ethylbenzene Toluene Xylenes, Total Gasoline Range Organics (GRO) | Benzene 25 Ethylbenzene 1.2 Toluene 4.2 Xylenes, Total 3.6 Gasoline Range Organics (GRO) 1400 | Benzene 25 Ethylbenzene 1.2 Toluene 4.2 Xylenes, Total 3.6 Gasoline Range Organics (GRO) 1400 | Benzene 25 0.50 Ethylbenzene 1.2 0.50 Toluene 4.2 0.50 Xylenes, Total 3.6 1.0 Gasoline Range Organics (GRO) 1400 50 | Benzene 25 0.50 Ethylbenzene 1.2 0.50 Toluene 4.2 0.50 Xylenes, Total 3.6 1.0 Gasoline Range Organics (GRO) 1400 50 | Benzene 25 0.50 ug/L Ethylbenzene 1.2 0.50 ug/L Toluene 4.2 0.50 ug/L Xylenes, Total 3.6 1.0 ug/L Gasoline Range Organics (GRO) 1400 50 ug/L | Benzene 25 0.50 ug/L Ethylbenzene 1.2 0.50 ug/L Toluene 4.2 0.50 ug/L Xylenes, Total 3.6 1.0 ug/L Gasoline Range Organics (GRO) 1400 50 ug/L | Benzene 25 0.50 ug/L Ethylbenzene 1.2 0.50 ug/L Toluene 4.2 0.50 ug/L Xylenes, Total 3.6 1.0 ug/L Gasoline Range Organics (GRO) 1400 50 ug/L | Benzene 25 0.50 ug/L 09/19/12 13:44 Ethylbenzene 1.2 0.50 ug/L 09/19/12 13:44 Toluene 4.2 0.50 ug/L 09/19/12 13:44 Xylenes, Total 3.6 1.0 ug/L 09/19/12 13:44 Gasoline Range Organics (GRO) 1400 50 ug/L 09/19/12 13:44 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 112 | | 67 - 130 | | 09/19/12 13:44 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 75 - 138 | | 09/19/12 13:44 | 1 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 | | 09/19/12 13:44 | 1 |

| Client Sample ID: NOBS-B1 | Lab Sample ID: 720-44599-3 |
|--------------------------------|----------------------------|
| Date Collected: 09/18/12 10:20 | Matrix: Water |

| Date | Received: | 09/18/12 | 14:25 |
|------|-----------|----------|-------|

| Analyte | Result | Qualifier | RL | MDL U | Init | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Benzene | ND | | 0.50 | u | g/L | | | 09/19/12 15:10 | 1 |
| Ethylbenzene | ND | | 0.50 | u | g/L | | | 09/19/12 15:10 | 1 |
| Toluene | ND | | 0.50 | u | g/L | | | 09/19/12 15:10 | 1 |
| Xylenes, Total | ND | | 1.0 | u | g/L | | | 09/19/12 15:10 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 50 | u | g/L | | | 09/19/12 15:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 104 | | 67 - 130 | | 09/19/12 15:10 | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 75 - 138 | | 09/19/12 15:10 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | 09/19/12 15:10 | 1 |

| Client Sample ID: POBS-B1 | | Lab Sample ID: 720-44599-4 |
|--------------------------------|--|----------------------------|
| Date Collected: 09/18/12 11:00 | | Matrix: Water |

| Date Received: 09/18/12 14:25 | | | | | | |
|-------------------------------|------------------|------|----------|------------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D Prepared | Analyzed | Dil Fac |
| Benzene | ND | 0.50 | ug/L | | 09/19/12 15:39 | 1 |
| Ethylbenzene | ND | 0.50 | ug/L | | 09/19/12 15:39 | 1 |
| Toluene | ND | 0.50 | ug/L | | 09/19/12 15:39 | 1 |
| Xylenes, Total | ND | 1.0 | ug/L | | 09/19/12 15:39 | 1 |

TestAmerica Job ID: 720-44599-1

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

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

| Client Sample ID: POBS-B1 | | | | | | | Lab | Sample ID: 720- | 44599-4 |
|--|-----------|-----------|----------|-----|------|---|----------|-----------------|---------|
| Date Collected: 09/18/12 11:00 | | | | | | | | - | k: Wate |
| Date Received: 09/18/12 14:25 | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 50 | | ug/L | | | 09/19/12 15:39 | • |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene | 103 | | 67 - 130 | | | = | | 09/19/12 15:39 | - |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 75 - 138 | | | | | 09/19/12 15:39 | |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 09/19/12 15:39 | |
| Client Sample ID: POBS-A1 | | | | | | | Lab | Sample ID: 720- | 44599- |
| Date Collected: 09/18/12 11:30 | | | | | | | | Matrix | k: Wate |
| Date Received: 09/18/12 14:25 | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | 1100 | | 5.0 | | ug/L | | | 09/19/12 16:07 | 10 |
| Ethylbenzene | 8.3 | | 5.0 | | ug/L | | | 09/19/12 16:07 | 10 |
| Toluene | 27 | | 5.0 | | ug/L | | | 09/19/12 16:07 | 10 |
| Xylenes, Total | 18 | | 10 | | ug/L | | | 09/19/12 16:07 | 10 |
| Gasoline Range Organics (GRO) -C5-C12 | 2600 | | 500 | | ug/L | | | 09/19/12 16:07 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene | 102 | | 67 - 130 | | | - | | 09/19/12 16:07 | 10 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 75 - 138 | | | | | 09/19/12 16:07 | 10 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | | 09/19/12 16:07 | 10 |
| Client Sample ID: MW-2 | | | | | | | Lab | Sample ID: 720- | 44599-6 |
| Date Collected: 09/18/12 12:00 | | | | | | | | - | k: Wate |
| | | | | | | | | | |

| Date Received: 03/10/12 14:25 | | | | | | | | | |
|---------------------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | 4.7 | | 0.50 | | ug/L | | | 09/25/12 14:18 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 09/25/12 14:18 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 09/25/12 14:18 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 09/25/12 14:18 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | 410 | | 50 | | ug/L | | | 09/25/12 14:18 | 1 |

| Surrogate | %Recovery (| Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|---|----------|----------------|---------|
| 4-Bromofluorobenzene | 115 | | 67 - 130 | _ | | 09/25/12 14:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 75 - 138 | | | 09/25/12 14:18 | 1 |
| Toluene-d8 (Surr) | 103 | | 70 - 130 | | | 09/25/12 14:18 | 1 |

Client Sample ID: POBS-B2 Lab Sample ID: 720-44599-7 Date Collected: 09/18/12 12:30 **Matrix: Water**

Date Received: 09/18/12 14:25

| Date Received. 05/10/12 14.20 | | | | | | | | | |
|--|-----------|-----------|---------------------|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.50 | | ug/L | | | 09/19/12 17:05 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 09/19/12 17:05 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 09/19/12 17:05 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 09/19/12 17:05 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 50 | | ug/L | | | 09/19/12 17:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene | 103 | | 67 - 130 | | | - | | 09/19/12 17:05 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 75 ₋ 138 | | | | | 09/19/12 17:05 | 1 |

TestAmerica Job ID: 720-44599-1

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

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

Lab Sample ID: 720-44599-7

Matrix: Water

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Toluene-d8 (Surr) 100 70 - 130 09/19/12 17:05

Lab Sample ID: 720-44599-8

Matrix: Water

Date Collected: 09/18/12 13:10 Date Received: 09/18/12 14:25 Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Benzene 110 0.50 ug/L 09/19/12 17:34 Ethylbenzene 0.50 ug/L 09/19/12 17:34 0.66

ug/L 09/19/12 17:34 **Toluene** 2.6 0.50 09/19/12 17:34 **Xylenes, Total** 1.2 1.0 ug/L 50 ug/L 09/19/12 17:34 **Gasoline Range Organics (GRO)** 480

-C5-C12

Client Sample ID: POBS-B2

Client Sample ID: MW-3

Date Collected: 09/18/12 12:30

Date Received: 09/18/12 14:25

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene 104 67 - 130 09/19/12 17:34 106 1,2-Dichloroethane-d4 (Surr) 75 - 138 09/19/12 17:34 Toluene-d8 (Surr) 100 70 - 130 09/19/12 17:34

Client Sample ID: DUP Lab Sample ID: 720-44599-9 Date Collected: 09/18/12 00:00 **Matrix: Water**

Date Received: 09/18/12 14:25

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene 100 0.50 ug/L 09/19/12 18:03 0.50 ug/L 09/19/12 18:03 Ethylbenzene 0.62 0.50 ug/L 09/19/12 18:03 **Toluene** 2.4 09/19/12 18:03 Xylenes, Total 1.1 1.0 ug/L 50 09/19/12 18:03 **Gasoline Range Organics (GRO)** 440 ug/L

-C5-C12

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | DII Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 104 | | 67 - 130 | | 09/19/12 18:03 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 75 - 138 | | 09/19/12 18:03 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 09/19/12 18:03 | 1 |

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

Lab Sample ID: MB 720-121196/4

Matrix: Water

Analysis Batch: 121196

| Client Sample | D: Metho | d Blank |
|----------------------|-----------|---------|
| Pre | n Type: T | otal/NA |

| ı | | MB | MB | | | | | | | |
|---|-------------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Benzene | ND | | 0.50 | | ug/L | | | 09/19/12 09:24 | 1 |
| ١ | Ethylbenzene | ND | | 0.50 | | ug/L | | | 09/19/12 09:24 | 1 |
| ١ | Toluene | ND | | 0.50 | | ug/L | | | 09/19/12 09:24 | 1 |
| ١ | Xylenes, Total | ND | | 1.0 | | ug/L | | | 09/19/12 09:24 | 1 |
| ١ | Gasoline Range Organics (GRO) | ND | | 50 | | ug/L | | | 09/19/12 09:24 | 1 |
| | -C5-C12 | | | | | | | | | |

Limits

67 - 130

75 - 138

70 - 130

MB MB

4-Bromofluorobenzene 101 1,2-Dichloroethane-d4 (Surr) 102 Toluene-d8 (Surr) 100

Dil Fac Prepared Analyzed 09/19/12 09:24 09/19/12 09:24 09/19/12 09:24

Lab Sample ID: LCS 720-121196/5 **Matrix: Water**

Surrogate

Analysis Batch: 121196

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

| • | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 25.0 | 24.2 | | ug/L | | 97 | 79 - 130 | |
| Ethylbenzene | 25.0 | 24.6 | | ug/L | | 99 | 80 - 120 | |
| Toluene | 25.0 | 24.4 | | ug/L | | 97 | 78 - 120 | |
| m-Xylene & p-Xylene | 50.0 | 50.5 | | ug/L | | 101 | 70 - 142 | |
| o-Xylene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 | |

LCS LCS

%Recovery Qualifier

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|---------------------|
| 4-Bromofluorobenzene | 103 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 75 ₋ 138 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 121196

Lab Sample ID: LCS 720-121196/7

| | Spike | LCS | LCS | | | | %Rec. | |
|-------------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO) | 500 | 500 | | ug/L | | 100 | 62 - 120 | |

-C5-C12

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene | 104 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 75 - 138 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 121196

Matrix: Water

Lab Sample ID: LCSD 720-121196/6

| Analysis Baton: 121100 | | | | | | | | |
|------------------------|-------|--------|----------------|-----|------|---------------------|-----|-------|
| | Spike | LCSD | LCSD | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier Unit | t D | %Rec | Limits | RPD | Limit |
| Benzene | 25.0 | 24.2 | ug/l | | 97 | 79 - 130 | 0 | 20 |
| Ethylbenzene | 25.0 | 24.6 | ug/l | - | 98 | 80 - 120 | 0 | 20 |
| Toluene | 25.0 | 24.3 | ug/l | _ | 97 | 78 ₋ 120 | 0 | 20 |

Client: Stantec Consulting Corp. Project/Site: Bohannon San Lorenzo TestAmerica Job ID: 720-44599-1

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

Lab Sample ID: LCSD 720-121196/6

Lab Sample ID: LCSD 720-121196/8

Matrix: Water

Analysis Batch: 121196

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

| | Бріке | LCSD | LCSD | | | | %Rec. | | KPD |
|---------------------|--------------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| m-Xylene & p-Xylene | 50.0 | 50.4 | | ug/L | | 101 | 70 - 142 | 0 | 20 |
| o-Xylene | 25.0 | 25.4 | | ug/L | | 101 | 70 - 130 | 1 | 20 |

| | LCSD | LCSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene | 101 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 75 - 138 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D 500 498 100 62 - 120 20 Gasoline Range Organics (GRO) ug/L -C5-C12

LCSD LCSD Surrogate %Recovery Qualifier Limits 67 - 130 4-Bromofluorobenzene 105 1,2-Dichloroethane-d4 (Surr) 102 75 - 138 Toluene-d8 (Surr) 102 70 - 130

Lab Sample ID: 720-44599-3 MS

Matrix: Water

Analysis Batch: 121196

| Lab Sample ID: 720-44599-3 MS | | | | | | Client Sample ID: NOBS-B1 |
|-------------------------------|--------|--------|-------|----|----|---------------------------|
| Matrix: Water | | | | | | Prep Type: Total/NA |
| Analysis Batch: 121196 | | | | | | |
| | Sample | Sample | Spike | MS | MS | %Rec. |

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|---------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | ND | | 25.0 | 24.8 | | ug/L | | 99 | 60 - 140 | |
| Ethylbenzene | ND | | 25.0 | 24.4 | | ug/L | | 98 | 60 - 140 | |
| Toluene | ND | | 25.0 | 24.4 | | ug/L | | 98 | 60 - 140 | |
| m-Xylene & p-Xylene | ND | | 50.0 | 50.0 | | ug/L | | 100 | 60 - 140 | |
| o-Xylene | ND | | 25.0 | 25.6 | | ug/L | | 102 | 60 - 140 | |
| | | | | | | | | | | |

| | IVIS | IVIS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene | 103 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 75 - 138 |
| Toluene-d8 (Surr) | 103 | | 70 - 130 |

Lab Sample ID: 720-44599-3 MSD Client Sample ID: NOBS-B1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 121196

| Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|--------|--------------------------------|----------------|--|---|---|--|--|--|---|---|
| Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| ND | | 25.0 | 25.0 | | ug/L | | 100 | 60 - 140 | 1 | 20 |
| ND | | 25.0 | 24.3 | | ug/L | | 97 | 60 - 140 | 0 | 20 |
| ND | | 25.0 | 24.3 | | ug/L | | 97 | 60 - 140 | 0 | 20 |
| ND | | 50.0 | 49.7 | | ug/L | | 99 | 60 - 140 | 1 | 20 |
| ND | | 25.0 | 25.7 | | ug/L | | 103 | 60 - 140 | 0 | 20 |
| | Result ND ND ND ND | ND ND ND | Result Qualifier Added ND 25.0 ND 25.0 ND 25.0 ND 50.0 | Result Qualifier Added Result ND 25.0 25.0 ND 25.0 24.3 ND 25.0 24.3 ND 50.0 49.7 | Result Qualifier Added Result Qualifier ND 25.0 25.0 ND 25.0 24.3 ND 25.0 24.3 ND 50.0 49.7 | Result Qualifier Added Result Qualifier Unit ND 25.0 25.0 ug/L ND 25.0 24.3 ug/L ND 25.0 24.3 ug/L ND 50.0 49.7 ug/L | Result Qualifier Added Result Qualifier Unit D ND 25.0 25.0 ug/L ND 25.0 24.3 ug/L ND 25.0 24.3 ug/L ND 50.0 49.7 ug/L | Result Qualifier Added Result Qualifier Unit D %Rec ND 25.0 25.0 ug/L 100 ND 25.0 24.3 ug/L 97 ND 25.0 24.3 ug/L 97 ND 50.0 49.7 ug/L 99 | Result Qualifier Added Result Qualifier Unit D %Rec Limits ND 25.0 25.0 ug/L 100 60 - 140 ND 25.0 24.3 ug/L 97 60 - 140 ND 25.0 24.3 ug/L 97 60 - 140 ND 50.0 49.7 ug/L 99 60 - 140 | Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD ND 25.0 25.0 ug/L 100 60 - 140 1 ND 25.0 24.3 ug/L 97 60 - 140 0 ND 25.0 24.3 ug/L 97 60 - 140 0 ND 50.0 49.7 ug/L 99 60 - 140 1 |

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

Lab Sample ID: 720-44599-3 MSD

Matrix: Water

Analysis Batch: 121196

Client Sample ID: NOBS-B1
Prep Type: Total/NA

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene | 102 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 75 - 138 |
| Toluene-d8 (Surr) | 103 | | 70 - 130 |

Lab Sample ID: MB 720-121566/5

Matrix: Water

-C5-C12

Analysis Batch: 121566

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

MB MB

Result Qualifier Dil Fac Analyte RLMDL Unit D Prepared Analyzed Benzene ND 0.50 ug/L 09/25/12 09:57 Ethylbenzene ND 0.50 09/25/12 09:57 ug/L Toluene ND 0.50 ug/L 09/25/12 09:57 Xylenes, Total ND 1.0 ug/L 09/25/12 09:57 ND 09/25/12 09:57 Gasoline Range Organics (GRO) 50 ug/L

мв мв

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 101 | | 67 - 130 | | 09/25/12 09:57 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 75 - 138 | | 09/25/12 09:57 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 09/25/12 09:57 | 1 |

Lab Sample ID: LCS 720-121566/6

Matrix: Water

Analysis Batch: 121566

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

| | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 25.0 | 25.7 | | ug/L | | 103 | 79 - 130 | |
| Ethylbenzene | 25.0 | 25.6 | | ug/L | | 102 | 80 - 120 | |
| Toluene | 25.0 | 25.7 | | ug/L | | 103 | 78 - 120 | |
| m-Xylene & p-Xylene | 50.0 | 51.3 | | ug/L | | 103 | 70 - 142 | |
| o-Xylene | 25.0 | 26.6 | | ug/L | | 106 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|---------------------|
| 4-Bromofluorobenzene | 101 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 75 ₋ 138 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCS 720-121566/8

Matrix: Water

Analysis Batch: 121566

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

 Analyte
 Added Gasoline Range Organics (GRO)
 500
 504
 Unit Ug/L
 Ug/L
 101
 62 - 120

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|---------------------|
| 4-Bromofluorobenzene | 103 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 75 ₋ 138 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 |

Client: Stantec Consulting Corp. Project/Site: Bohannon San Lorenzo TestAmerica Job ID: 720-44599-1

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

Lab Sample ID: LCSD 720-121566/7

Matrix: Water

Analysis Batch: 121566

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

| | | | %Rec. | | RPD |
|------|---|------|----------|-----|-------|
| Unit | D | %Rec | Limits | RPD | Limit |
| ug/L | | 103 | 79 - 130 | 0 | 20 |
| ug/L | | 101 | 80 - 120 | 1 | 20 |
| ug/L | | 103 | 78 - 120 | 0 | 20 |
| | | 404 | 70 440 | | |

| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Benzene | 25.0 | 25.8 | | ug/L | | 103 | 79 - 130 | 0 | 20 |
| Ethylbenzene | 25.0 | 25.3 | | ug/L | | 101 | 80 - 120 | 1 | 20 |
| Toluene | 25.0 | 25.6 | | ug/L | | 103 | 78 - 120 | 0 | 20 |
| m-Xylene & p-Xylene | 50.0 | 50.5 | | ug/L | | 101 | 70 - 142 | 2 | 20 |
| o-Xylene | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 | 0 | 20 |
| LCSD LCSD | | | | | | | | | |

LCSD LCSD

Spike

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 99 67 - 130 1,2-Dichloroethane-d4 (Surr) 96 75 - 138 Toluene-d8 (Surr) 102 70 - 130

Lab Sample ID: LCSD 720-121566/9 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 121566

-C5-C12

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits Limit 500 494 ug/L 99 62 - 120 Gasoline Range Organics (GRO)

LCSD LCSD Surrogate %Recovery Qualifier Limits 67 - 130 4-Bromofluorobenzene 104 1,2-Dichloroethane-d4 (Surr) 101 75 - 138 Toluene-d8 (Surr) 102 70 - 130

QC Association Summary

Client: Stantec Consulting Corp.

Project/Site: Bohannon San Lorenzo

TestAmerica Job ID: 720-44599-1

GC/MS VOA

Analysis Batch: 121196

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|---------------------------------------|---------------------|------------|
| 720-44599-1 | TB-1 | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| 720-44599-2 | MW-4 | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| 720-44599-3 | NOBS-B1 | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| 720-44599-3 MS | NOBS-B1 | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| 720-44599-3 MSD | NOBS-B1 | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| 720-44599-4 | POBS-B1 | Total/NA | Water | 8260B/CA_LUFT | |
| | <u></u> | <u>-</u> | | MS | |
| 720-44599-5 | POBS-A1 | Total/NA | Water | 8260B/CA_LUFT | |
| | DODO DO | T | | MS | |
| 720-44599-7 | POBS-B2 | Total/NA | Water | 8260B/CA_LUFT | |
| 700 44500 0 | MAN O | T-1-1/NIA | \A/=+== | MS | |
| 720-44599-8 | MW-3 | Total/NA | Water | 8260B/CA_LUFT | |
| 720-44599-9 | DUP | Total/NA | Water | MS | |
| 720-44099-9 | DOP | TOtal/NA | vvalei | 8260B/CA_LUFT MS | |
| LCS 720-121196/5 | Lab Control Sample | Total/NA | Water | | |
| 200 720-121190/0 | Lab Control Gample | Total/TVA | vvater | 8260B/CA_LUFT MS | |
| LCS 720-121196/7 | Lab Control Sample | Total/NA | Water | 8260B/CA LUFT | |
| 200720 1211007 | Lab Control Campio | rotalira | · · · · · · · · · · · · · · · · · · · | MS | |
| LCSD 720-121196/6 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA LUFT | |
| 2005 120 121100.0 | zas como campio zap | | | MS | |
| LCSD 720-121196/8 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA LUFT | |
| | r - r | | | MS | |
| MB 720-121196/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| <u> </u> | | | | | |

Analysis Batch: 121566

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|---------------|------------|
| 720-44599-6 | MW-2 | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| LCS 720-121566/6 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| LCS 720-121566/8 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| LCSD 720-121566/7 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| LCSD 720-121566/9 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |
| MB 720-121566/5 | Method Blank | Total/NA | Water | 8260B/CA_LUFT | |
| | | | | MS | |

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

Client Sample ID: TB-1 Lab Sample ID: 720-44599-1 Date Collected: 09/18/12 09:00

Matrix: Water

Date Received: 09/18/12 14:25

Batch Dilution Prepared Batch Batch Factor or Analyzed Prep Type Type Method Run Number Analyst Lab Total/NA Analysis 8260B/CA LUFTMS 121196 09/19/12 13:15 AC TAL SF

Client Sample ID: MW-4 Lab Sample ID: 720-44599-2

Date Collected: 09/18/12 09:40 **Matrix: Water**

Date Received: 09/18/12 14:25

Batch Batch Dilution Batch Prepared Method Number or Analyzed Prep Type Type Run Factor Analyst Lab Total/NA 8260B/CA_LUFTMS 121196 09/19/12 13:44 AC TAL SF Analysis

Client Sample ID: NOBS-B1 Lab Sample ID: 720-44599-3

Date Collected: 09/18/12 10:20 Matrix: Water

Date Received: 09/18/12 14:25

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab 09/19/12 15:10 TAL SF Total/NA Analysis 8260B/CA LUFTMS 121196 AC

Lab Sample ID: 720-44599-4 Client Sample ID: POBS-B1 **Matrix: Water**

Date Collected: 09/18/12 11:00

Date Received: 09/18/12 14:25

Batch Batch Batch Prepared Dilution **Prep Type** Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis 8260B/CA_LUFTMS 121196 09/19/12 15:39 AC TAL SF

Client Sample ID: POBS-A1 Lab Sample ID: 720-44599-5

Date Collected: 09/18/12 11:30 **Matrix: Water**

Date Received: 09/18/12 14:25

Dilution Prepared Batch Batch Batch Prep Type Type Method Run Factor Number or Analyzed Analyst Lab Analysis 8260B/CA LUFTMS 09/19/12 16:07 TAL SE Total/NA 10 121196 AC

Lab Sample ID: 720-44599-6 Client Sample ID: MW-2

Date Collected: 09/18/12 12:00 Matrix: Water

Date Received: 09/18/12 14:25

Batch Batch Dilution Batch Prepared Method Number or Analyzed Prep Type Type Run Factor Analyst Lab Total/NA Analysis 8260B/CA_LUFTMS 121566 09/25/12 14:18 AC TAL SF

Client Sample ID: POBS-B2 Lab Sample ID: 720-44599-7

Date Collected: 09/18/12 12:30 **Matrix: Water**

Date Received: 09/18/12 14:25

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number or Analyzed Analyst Lab Total/NA 8260B/CA_LUFTMS 121196 09/19/12 17:05 AC TAL SF Analysis

Lab Chronicle

Client: Stantec Consulting Corp. Project/Site: Bohannon San Lorenzo TestAmerica Job ID: 720-44599-1

Lab Sample ID: 720-44599-8

Matrix: Water

Date Collected: 09/18/12 13:10 Date Received: 09/18/12 14:25

Client Sample ID: MW-3

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis 8260B/CA_LUFTMS 121196 09/19/12 17:34 AC TAL SF

Client Sample ID: DUP Lab Sample ID: 720-44599-9

Date Collected: 09/18/12 00:00 Matrix: Water

Date Received: 09/18/12 14:25

Batch Batch Dilution Batch Prepared Туре Method Factor Number or Analyzed Prep Type Run Analyst Lab 8260B/CA_LUFTMS 09/19/12 18:03 121196 TAL SF Total/NA Analysis AC

Laboratory References:

TAL SF = 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: 720-44599-1

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 |

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Method Summary

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

TestAmerica Job ID: 720-44599-1

| Method | Method Description | Protocol | Laboratory |
|----------------|--------------------|----------|------------|
| 8260B/CA_LUFTM | 8260B / CA LUFT MS | SW846 | TAL SF |
| S | | | |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

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

TestAmerica Job ID: 720-44599-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 720-44599-1 | TB-1 | Water | 09/18/12 09:00 | 09/18/12 14:25 |
| 720-44599-2 | MW-4 | Water | 09/18/12 09:40 | 09/18/12 14:25 |
| 720-44599-3 | NOBS-B1 | Water | 09/18/12 10:20 | 09/18/12 14:25 |
| 720-44599-4 | POBS-B1 | Water | 09/18/12 11:00 | 09/18/12 14:25 |
| 720-44599-5 | POBS-A1 | Water | 09/18/12 11:30 | 09/18/12 14:25 |
| 720-44599-6 | MW-2 | Water | 09/18/12 12:00 | 09/18/12 14:25 |
| 720-44599-7 | POBS-B2 | Water | 09/18/12 12:30 | 09/18/12 14:25 |
| 720-44599-8 | MW-3 | Water | 09/18/12 13:10 | 09/18/12 14:25 |
| 720-44599-9 | DUP | Water | 09/18/12 00:00 | 09/18/12 14:25 |

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Page 20 of 21











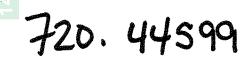














CHAIN OF CUSTODY RECORD

| | Stantos | | | | | | | | | | | • | | | | | - / : | 408 | 17 | |
|-------------------|--------------------------------------|---|---------------|---------|---|--|---------------|--|--|--|-------------------|--|---|----------|--|--|--------------|---------------------------|------------------|------------|
| | | Stantec Company Contact(s) for Invoice Project Manager: Mason Albrecht | | | | | | æ: | | | Stantec Project # | | | | DATE: 9-18-12 | | | | | |
| | | | | | | | | | | | | | | | | • | | | | |
| | TEL:(925) 299-9300 FAX:(925)299-9302 | email: m | ason.albrc | ht@st | antec. | .com | | | | | - | 1857 | 0253 | 4 | FAGE | | | / OF | : / | |
| Project Nan | ne: Bohanno | ~ | | | *************************************** | | | | | | | | | | | | | | | |
| Address: | Bollatillo | (E) | | | | | ٦ | r(s) Printe Irles Mel | | | > | | Laborato | ory: | | TestAn | aorioo | | | |
| | 575 Paseo Grande, Sa | n Lorenzo | CA | | | | Sample | r(s) Signat | dre: | | | | Lab Use | Qnly: | | i estali | ierica | | | 1111 |
| | | | | | | | | and the same of th | | | | - | | 1 | | | 1 | | | |
| Turn-aroun | d Time (Business Days): | ······································ | | | | | | | | | ***** | | Element. | | | <u> Annion</u> | | यतंत्रतं हिंद् | | |
| 10 DAYS | X 5 DAYS 72 HR 48 HR | | 4 HR | <24 | HR 🔲 | | | | | | | | REQUE | STED | ANALY | SIS | | | | |
| □ отн | ER | | | | | | _ | | | | | | | | - | | | | | |
| Special ins | structions or Notes: Te | mperature | Upon Recei | ot (C): | | | - | | | | | | ************************************** | | | | | *** | | |
| | | | | | l | *************************************** | 1 g | | | | | | | | | | | | | |
| | | | | | | | 8260B | | | | | | | | | | | | | |
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| | | | | | | | <u>ê</u> | | | | | | | | | | | | | |
| | | SAI | MPLING | MAT- | No. of | Pre- | TPH-g/BTEX by | | | | | | | | | | | | | |
| Lab USE ONLY | Field Sample Identification | DATE | TIME | RIX | Cont. | serve | HG+ | | | | | | *************************************** | | | | | | Laboratory Notes | |
| | TB-1 | 9-18-12 | 800 | W | 2 | HEL | X | | | | | | 1 | | | 1 | | † | Laboratory Notes | |
| | MW-4. | 1 | 940 | 1 | 3 | <u> </u> | | | | | | | | | | | | | | |
| | NOBS-Bi | | 1020 | | 1 | 11 | | | | | | | | | | <u> </u> | | | | |
| | 10BS-B/ | | 1100 | | | 11 | | <u> </u> | - | | | | | <u> </u> | | | | | | |
| | POBS-41 | | 1/30 | | \Box | | 11 | — | | | | | | - | | | | | | |
| | MW-Z | | 1200 | | П | | IT | - | | | | | | | | | | | | |
| | POBS-B2 | | 1230 | | | | | | | | | | | <u> </u> | | <u> </u> | | | | |
| | MW-3 | | 1310 | | \sqcap | 11 | | | <u> </u> | | | † | <u> </u> | _ | | | | | | |
| | pup. | | | | | | T | | | | | <u> </u> | | <u> </u> | | | | | | |
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| - Answerquest ICU | -1. /a | Date: | Time: | receiv | ea by: (S | ignature) | | | | | | | 1 | 1 | | Time: | | į | | |

Login Sample Receipt Checklist

Client: Stantec Consulting Corp. Job Number: 720-44599-1

Login Number: 44599 List Source: TestAmerica Pleasanton

List Number: 1

Creator: Apostol, Anita

| Creator: Apostol, Anita | | |
|---|--------|---------|
| Question | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | True | |
| 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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APPENDIX D

Chemical Concentration Trends in Groundwater

Third Quarter 2012 Groundwater Monitoring Report
David D. Bohannon Organization
575 Paseo Grande
San Lorenzo, California
Stantec PN: 185702534

December 21, 2012

