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October 31, 2014

SUBMITTED ELECTRONICALLY

RECEIVED
By Alameda County Environmental Health at 11:35 am, Nov 03, 2014

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

Re: Second Semi-Annual 2014 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 *Second Semi-Annual 2014 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) in September 2014. The semi-annual groundwater monitoring and sampling event was conducted pursuant to the Alameda County Health Care Services Agency (ACHCSA) letter to Bohannon dated March 4, 2014.

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,

Robert L. Webster, Chairman

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

Second Semi-Annual 2014 Groundwater Monitoring Report

575 Paseo Grande
San Lorenzo, California
PN: 185702934

Prepared for:
David D. Bohannon Organization

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

October 31, 2014

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:

Eva Hey
Senior Geologist

Reviewed by:

Chris Maxwell
Principal Geologist

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

Licensed Approver:

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

REGISTERED GEOLOGIST
CHRIS R. MAXWELL
NO. 7269
REGISTERED GEOLOGIST
STATE OF CALIFORNIA
Exp 8/15

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Abbreviations and Acronyms

amsl	above mean sea level
Bohannon	David D. Bohannon Organization
BTEX	benzene, toluene, ethylbenzene, and total xylenes
DO	dissolved oxygen
LCS	laboratory control spike
MB	method blank
mL/min	milliliters per minute
MRL	method reporting limit
MS	matrix spike
ORP	oxidation/reduction potential
QA/QC	quality assurance/quality control
RPD	relative percent difference
Stantec	Stantec Consulting Services Inc.
TPHg	total petroleum hydrocarbons as gasoline
µg/L	micrograms per liter
U.S. EPA	United States Environmental Protection Agency

1.0 Introduction

Stantec Consulting Services Inc. (Stantec) presents this groundwater monitoring report for the second semester of 2014 which describes results of groundwater monitoring and sampling conducted on September 29 and 30, 2014, for the property located at 575 Paseo Grande, San Lorenzo, California (the Site; see Figure 1). This sampling event was conducted by Stantec pursuant to a letter from Alameda County Environmental Health to David D. Bohannon Organization (Bohannon), dated March 4, 2014, requesting semi-annual groundwater monitoring and sampling to monitor post-remediation trends at the Site. The scope of work for the second semi-annual event in 2014 included measuring the depth-to-water and collecting groundwater samples in groundwater monitoring wells MW-1 through MW-7 and observation wells POBS-A1, POBS-B1, POBS-B2, and NOBS-B1 (see Figure 2). Well construction details are included in Table 1. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes, (collectively BTEX).

2.0 Groundwater Monitoring

Site-wide groundwater monitoring and sampling was performed on September 29 and 30, 2014, and consisted of sounding wells for depth-to-water and sampling monitoring wells MW-1 through MW-7 and observation wells POBS-A1, POBS-B1, POBS-B2, and NOBS-B1. Well gauging data is reported on Table 2. Field data sheets are provided in Appendix A. Laboratory analytical data is reported on Table 3 and included in Appendix B. The following summarizes the data collected by Stantec in September 2014.

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 depth-to-water measured at the Site on September 29, 2014, ranged from 6.94 feet below the top of well casing in MW-6 to 8.28 feet below the top of well casing in MW-1. Corresponding water-table elevations ranged from 20.76 feet above mean sea level (amsl) to 21.49 feet amsl. A potentiometric surface map illustrating the interpreted groundwater surface elevation and flow direction on September 29, 2014, is presented on Figure 3. The hydraulic gradient across the Site was approximately 0.003 feet per foot toward the southwest. The direction of groundwater flow and gradient are generally consistent with historic results. Groundwater elevations are near or at historic lows.

2.2 GROUNDWATER SAMPLING

On September 29 and 30, 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) content, and oxidation/reduction potential (ORP) were monitored using a flow-through cell during purging to confirm stable water conditions prior to sampling. Copies of field data sheets are attached as Appendix A.

Samples were collected from each well using the dedicated tubing to limit the potential for 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 laboratory 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.

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. Analyses were performed within the holding times specified by the U.S. EPA.

Control Spikes and Method Blanks

The laboratory control spike (LCS) recovery results and method blank (MB) results were used to assess accuracy of the analytical data. The analytical program included eight LCS and LCS duplicate pairs and four MBs. The spike recovery results were within the prescribed range of acceptable limits for analytical accuracy. The data are included in Appendix B.

3.0 Results

The following presents a discussion of results of the September 2014 groundwater monitoring conducted at the Site.

3.1 GROUNDWATER ANALYTICAL RESULTS

Petroleum hydrocarbon chemical data for the September 2014 event are shown in Table 3 and illustrated on Figure 4. Laboratory analytical reports are included in Appendix B. Historical concentration trends for TPHg and benzene in select groundwater monitoring wells including MW-1, MW-2, MW-3, MW-4, and observation wells POBS-A1, POBS-B1, POBS-B2, and NOBS-B1 are included in Appendix C.

- TPHg and BTEX concentrations continued to be below the laboratory method reporting limits (MRLs) in on-Site monitoring wells MW-1, off-Site monitoring wells MW-5, MW-6, and MW-7, and observation wells POBS-B1, POBS-B2, and NOBS-B1.
- The September 2014 concentrations of TPHg, benzene, toluene, and total xylenes in on-Site monitoring wells MW-2, MW-3, and observation well POBS-A1 were higher than those reported in March 2014 but consistent with previous results and significantly lower than historic maximums (i.e., prior to Site remedial activities).
- The concentrations of petroleum hydrocarbons in the sample from off-Site monitoring well MW-4 are lower than both the primary and duplicate sample collected during the March 2014 event.

MW-4 Sample Results*

Analyte	September 2014 Results (µg/L)	March 2014 Results (µg/L)
TPHg	1,100	5,500/5,500
Benzene	14	130/130
Toluene	0.74	13/13
Ethylbenzene	0.5	3.9/4.0
Total Xylenes	<1.0	9.8/9.5

*Results shown for March 2014 are Primary Sample/Duplicate Sample values.

TABLES

Second Semi-Annual 2014 Groundwater Monitoring Report

PN: 185702934
October 31, 2014

Stantec

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

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

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

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

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

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

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

Well	Date Sampled	TOC Elevation[1] (ft amsl)	DTW (ft BTOC)	Groundwater Elevation (ft amsl)
MW-2	05/03/12		6.17	20.56
cont.	09/18/12	29.54	7.37	22.17
	11/15/12		7.12	22.42
	12/11/13		7.01	22.53
	03/26/14		6.75	22.79
	09/29/14		8.24	21.30
MW-3	05/17/96	26.15	4.39	21.76
	10/08/96		6.82	19.33
	04/01/97		5.53	20.62
	06/12/97		6.18	19.97
	09/10/97		6.81	19.34
	06/08/99		5.74	20.41
	09/13/99		6.88	19.27
	12/21/99		6.66	19.49
	03/17/00		4.51	21.64
	12/05/00	26.55	6.84	19.71
	02/28/01		5.44	21.11
	08/22/01		7.29	19.26
	05/22/02		6.22	20.33
	08/29/02		7.26	19.29
	12/02/02		6.85	19.70
	03/04/03		5.72	20.83
	12/18/03		6.15	20.40
	04/13/04		5.97	20.58
	12/02/04		6.64	19.91
	05/27/05		5.74	20.81
	08/23/06		6.69	19.86
	01/13/10		6.08	20.47
	05/03/12		5.72	20.83
	09/18/12	29.34	7.18	22.16
	11/15/12		6.90	22.44
	12/11/13		6.77	22.57
	03/26/14		4.58	24.76
	09/29/14		8.11	21.23
MW-4	12/05/00	25.87	6.28	19.59
	02/28/01		4.99	20.88
	08/22/01		6.73	19.14
	05/22/02		5.50	20.37
	08/29/02		6.55	19.32
	12/02/02		6.28	19.59
	03/04/03		5.28	20.59
	12/18/03		5.85	20.02
	04/13/04		5.50	20.37
	12/02/04		6.05	19.82
	05/27/05		5.46	20.41
	08/24/06		6.15	19.72
	01/13/10		5.78	20.09
	05/03/12		5.38	20.49
	06/08/12		5.87	20.00
	09/18/12	28.64	6.65	21.99

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

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

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

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

Notes:

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

TABLE 3
Groundwater Analytical Results - September 2014 and Historical
David D. Bohannon Organization
575 Paseo Grande, San Lorenzo, CA

Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (µg/L)
Groundwater Monitoring Wells									
MW-1	05/17/96	**1,100**	<0.5	**8.7**	**7.4**	**17**	--	<10	<50
	10/08/96	**120**	<0.5	<0.5	**2.7**	<0.5	--	--	--
	04/01/97	**550**	<0.5	<0.5	**7.6**	**6.6**	--	--	--
	06/12/97	**160**	<0.5	<0.5	**2.9**	**1.7**	--	--	--
	09/10/97	**640**	**2.2**	**3.8**	**7.4**	**16**	--	--	--
	06/08/99	<50	<0.5	<0.5	<0.5	<0.5	<10	<10	<20
	09/13/99	<50	<0.5	<0.5	<0.5	**1.1**	--	--	<5
	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	--	--	
	03/17/00	<50	<0.5	<0.5	<0.5	**0.79**	<5	--	<5
	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5		<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	06/18/04	**150**	**1.5**	<0.5	**2.7**	**2.4**	--	--	--
	05/27/05	<50	**1.6**	<0.5	<0.5	<0.5	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/18/12	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
MW-2	05/17/96	**23,000**	**900**	**330**	**650**	**1,500**	--	<10	<50
	10/08/96	**8,400**	**530**	<50	**400**	**360**	--	--	--
	04/01/97	**7,600**	**470**	**64**	**210**	**250**	--	--	--
	06/12/97	**8,200**	**440**	**52**	**190**	**190**	--	--	--
	09/10/97	**8,500**	**390**	**51**	**220**	**240**	--	--	--
	06/08/99	**2,100**	**240**	**8**	**33**	**40**	<10	<10	**33**
	09/13/99	**1,300**	**120**	<5	<5	**15**	--	--	--
	12/21/99	**1,400**	**110**	**5.6**	**11**	**17**	--	--	<5
	03/17/00	**1,200**	**180**	**19**	**28**	**31**	<50	--	<5
	12/05/00	**800**	**75**	**1.8**	**11**	**14**	--	--	--
	02/28/01	**1,200**	**120**	**7.1**	**19**	**27**	--	--	--
	08/22/01	**990**	**75**	**3.5**	**8.9**	**8.1**	<5	--	<5
	05/22/02	**1,700**	**230**	**12**	**12**	**25**	--	--	--
	08/29/02	**1,000**	**66**	**2.6**	**12**	**12**	--	--	--
	12/02/02	**1,100**	**76**	**8.7**	**11**	**17**	--	--	--
	03/04/03	**1,100**	**130**	**4.5**	**22**	**24**	--	--	--
	12/18/03	**910**	**55**	**4.1**	**3.3**	**3.7**	--	--	--
	04/13/04	**2,700**	**350**	**15**	**18**	**24**	--	--	--
	10/05/04	**2,000**	**120**	**5.5**	<2.5	**8.3**	--	--	--
	05/27/05	**5,700**	**450**	**53**	**240**	**71**	--	--	--
	08/24/06	**1,400**	**90**	**4.7**	**16**	**21**	--	--	--
	01/13/10	**130** [J]	**1.2**	<0.5	<0.5	<1.0	--	--	--
	05/03/12	**350**	**22**	<0.5	**2.1**	<1.0	--	--	--
	09/18/12	**410**	**4.7**	<0.5	<0.5	<1.0	--	--	--
	11/15/12	**350**	**3.2**	<0.5	<0.5	<0.5-1.0	--	--	--
	12/12/13	**410**	**20**	**1.1**	<0.5	<1.0	--	--	--
	03/27/14	**450**	**32**	**1.1**	**1.2**	<1.0	--	--	--
	09/30/14	**2,000**	**180**	**8.0**	**1.9**	**7.7**	--	--	--

TABLE 3
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Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (µg/L)
MW-3	05/17/96	**6,700**	**140**	**45**	**210**	**180**	--	<10	<50
	10/08/96	**1,800**	**2,700**	**240**	**910**	**970**	--	--	--
	04/01/97	**27,000**	**520**	**50**	**520**	**450**	--	--	--
	06/12/97	**29,000**	**2,700**	**160**	**940**	**500**	--	--	--
	09/10/97	**290,000**	**1,800**	**3,200**	**2,800**	**6,900**	--	--	--
	06/08/99	**1,700**	**320**	**6.4**	**15**	<0.5	<10	<10	**24**
	09/13/99	**5,400**	**1,000**	<20	<20	<20	--	--	--
	12/21/99	**8,800**	**1,400**	**63**	**17**	23	--	--	<5
	03/17/00	**1,500**	**190**	<5	**7.6**	<5	<50		<5
	12/05/00	**5,400**	**790**	**20**	**7.4**	**10**	--	--	--
	02/28/01	**3,600**	**850**	**15**	**25**	**10**	--	--	--
	08/22/01	**8,100**	**1,600**	**28**	**44**	**17**	<50	--	<5
	05/22/02	**5,400**	**1,000**	**32**	**13**	**21**	--	--	--
	08/29/02	**6,700**	**1,700**	**55**	**49**	**38**	--	--	--
	12/02/02	**5,700**	**650**	**17**	**37**	**33**	--	--	--
	03/04/03	**5,000**	**650**	**18**	**42**	**27**	--	--	--
	12/18/03	**5,200**	**910**	**25**	**20**	**21**	--	--	--
	04/13/04	**3,900**	**1,200**	**19**	<5.0	<10	--	--	--
	06/18/04	**4,300**	**1,600**	**40**	**81**	**26**	--	--	--
	08/27/04	**6,900**	**2,100**	**59**	**220**	<50	--	--	--
	10/05/04	**9,800**	**2,500**	**52**	**160**	**38**	--	--	--
	12/02/04	**8,300**	**2,400**	**41**	**200**	**29**	--	--	--
	12/14/04	**15,000**	**3,600**	**140**	**560**	**210**	--	--	--
	05/27/05	**5,500**	**840**	**36**	**210**	**41**	--	--	--
	08/23/06	**1,700**	**190**	**5.3**	**51**	<10	--	--	--
	01/13/10	<50	**2**	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/18/12	**480/440**	**110/100**	**2.6/2.4**	**0.66/0.62**	**1.2/1.1**	--	--	--
	11/16/12	**66**	**2.0**	<0.5	<0.5	<0.5-1.0	--	--	--
	12/12/13	**110**	**7.0**	<0.5	<0.5	<1.0	--	--	--
	03/27/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/30/14	**830**	**370**	**5.9**	**1.0**	**1.8**	--	--	--
MW-4	12/05/00	**3,900**	**320**	**13**	**41**	**31**	--	--	<5
	02/28/01	**3,400**	**250**	**14**	**44**	**22**	--	--	<5
	08/22/01	**4,800**	**260**	**12**	**27**	**9**	<50	--	<5
	05/22/02	**5,100**	**320**	**29**	**74**	**50**	--	--	--
	08/29/02	**3,700**	**260**	<5	**30**	**28**	--	--	--
	12/02/02	**5,100**	**250**	**8.9**	**26**	**22**	--	--	--
	03/04/03	**4,500**	**170**	**18**	**63**	**47**	--	--	--
	12/18/03	**2,900**	**160**	**8.3**	**8**	<5	--	--	--
	04/13/04	**7,400**	**290**	**29**	**110**	**100**	--	--	--
	06/18/04	**2,700**	**140**	**12**	**36**	**16**	--	--	--
	08/27/04	**460**	**19**	**1.2**	**1.1**	**1.5**	--	--	--
	10/05/04	**460**	**19**	<1.0	<1.0	<1.0	--	--	--
	12/02/04	**2,800**	**120**	**5.4**	**8.3**	**5.3**	--	--	--
	05/27/05	**7,300**	**350**	**37**	**100**	**50**	--	--	--
	08/24/06	**2,400**	**59**	**8.2**	**19**	**14**	--	--	--
	01/14/10	**400** [J]	**1.6**	<0.5	<0.5	<1.0	--	--	--
	05/03/12	**6,800**	**190**	**26**	**15**	**25**	--	--	--
	06/08/12	**3,400**	**83**	**11**	**7.1**	**11**	<0.50	--	--
	09/18/12	**1,400**	**25**	**4.2**	**1.2**	**3.6**	--	--	--
	11/15/12	**4,000**	**69**	**6.4**	<2.5	<2.5-5.0	--	--	--
	12/11/13	**6,900**	**190**	**17**	**3.3**	**16**	--	--	--
DUP	12/11/13	**7,700**	**240**	**22**	**4.2**	**20**	--	--	--
	03/26/14	**5,500**	**130**	**13**	**3.9**	**9.8**	--	--	--
DUP	03/26/14	**5,500**	**130**	**13**	**4.0**	**9.5**	--	--	--
	09/30/14	**1,100**	**14**	**0.74**	**0.51**	<1.0	--	--	--

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Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (µg/L)
MW-5	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/05	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	01/14/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/18/12	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
MW-6	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/18/12	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
MW-7	12/05/00	<50	<0.5	<0.5	<0.5	**1.5**	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	**6.7**	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/04/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/18/12	--	--	--	--	--	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--

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Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (µg/L)
Peroxide Treatment Area - A Zone Injection Wells									
PIW-A1	05/13/04	**6,800**	**460**	**50**	**31**	**300**	--	--	--
	06/18/04	**240**	**10**	**2.1**	**4**	**11**	--	--	--
	08/27/04	**220**	**14**	**1.2**	**2**	**5**	--	--	--
	10/05/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/04	**640**	**63**	**12.0**	**15**	**29**	--	--	--
PIW-A2	05/13/04	**20,000**	**1,500**	**460**	**760**	**2,600**	--	--	--
	06/18/04	**2,800**	**150**	**14**	**6.5**	**90**	--	--	--
	08/27/04	**500**	**34**	**3**	**4.4**	**12**	--	--	--
	12/02/04	**350**	**6.1**	**1.2**	**2.4**	**5.4**	--	--	--
PIW-A3	12/14/04	**1,500**	**220**	**28**	**55**	**99**	--	--	--
Peroxide Treatment Area - B Zone Injection Wells									
PIW-B1	05/13/04	**1,900**	**28**	<5.0	**11**	**51**	--	--	--
	06/18/04	**270**	**22**	**1**	**2.2**	**2.7**	--	--	--
	08/27/04	**230**	**11**	**0.85**	**1.7**	**4.3**	--	--	--
	12/02/02	**66**	<0.5	<0.5	<0.5	<1.0	--	--	--
PIW-B3	05/13/04	**3,300**	**420**	**17**	**7.8**	**44**	--	--	--
	06/18/04	**180**	**1.2**	<0.5	<0.5	**2.4**	--	--	--
	08/27/04	**230**	**20.0**	**0.93**	**3.3**	**2.9**	--	--	--
	12/02/04	**64**	**0.75**	<0.5	<0.5	<1.0	--	--	--
Peroxide Treatment Area - A Zone Observation Wells									
POBS-A1	05/13/04	**16,000**	**2,200**	**220**	**480**	**980**	--	--	--
	06/18/04	**11,000**	**2,200**	**150**	**120**	**820**	--	--	--
	08/27/04	**23,000**	**2,900**	**140**	**180**	**470**	--	--	--
	10/05/04	**13,000**	**2,400**	**83**	**130**	**94**	--	--	--
	12/02/04	**17,000**	**3,500**	**240**	**210**	**730**	--	--	--
	12/14/04	**13,000**	**2,700**	**200**	**220**	**510**	--	--	--
	05/27/05	**9,600**	**1,200**	**62**	**110**	**180**	--	--	--
	08/24/06	**8,500**	**1,700**	**58**	**120**	**100**	--	--	--
	01/13/10	**7,300** [J]	**1,100**	**29**	**53**	**42**	--	--	--
	05/04/12	**540**	**110**	**2.0**	**1.4**	<1.0	--	--	--
	09/18/12	**2,600**	**1,100**	**27**	**8.3**	**18**	--	--	--
	11/16/12	**4,700/4,700**	**1,600/1,700**	**36/35**	**6.6/6.3**	**28.1/27.1**	--	--	--
	12/12/13	**2,600**	**1,200**	**28**	<5.0	**15**	--	--	--
	03/27/14	**510**	**40**	**1.3**	**0.72**	**2.3**	--	--	--
	09/30/14	**2,200**	**870**	**17**	**3.5**	**9.1**	--	--	--
Peroxide Treatment Area - B Zone Observation Wells									
POBS-B1	05/13/04	**11,000**	**250**	**71**	**160**	**590**	--	--	--
	06/18/04	**3,500**	**9.8**	<0.5	**0.8**	**13**	--	--	--
	08/27/04	**500**	**1.4**	<0.5	<0.5	<1.0	--	--	--
	12/02/04	**190**	**2.6**	<0.5	<0.5	<1.0	--	--	--
	05/27/05	**68**	**17.0**	<0.5	**1.6**	**0.52**	--	--	--
	08/24/06	**50**	**1.1**	<0.5	<0.5	<1.0	--	--	--
	05/04/12	<50	**0.80**	<0.5	<0.5	<1.0	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/16/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/27/14	**390**	**63**	**1.5**	**0.72**	<1.0	--	--	--
	09/29/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--

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Well	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Chromium (µg/L)	Inorganic Lead (µg/L)
Peroxide Treatment Area - B Zone Observation Wells (continued)									
POBS-B2	05/13/04	**4,500**	**150**	**23**	**11**	**120**	--	--	--
	06/18/04	**97**	**7.4**	**0.8**	**1.6**	**1.7**	--	--	--
	08/27/04	**240**	**36.0**	**1.6**	**6.7**	**4.2**	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	**97**	**33.0**	**0.56**	**1.3**	**0.74**	--	--	--
	08/24/06	**57**	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	**83**	**8.8**	<0.5	<0.5	<1.0	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/16/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/27/14	<50	**6.0**	<0.5	<0.5	<1.0	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
Nitrate Injection Area - A Zone Injection Wells									
NIW-A1	05/13/04	**9,300**	**1,800**	**59**	**250**	**96**	--	--	--
	06/18/04	**3,100**	**340**	**22**	**93**	**55**	--	--	--
	08/27/04	**250**	**13**	**1.4**	**6**	**5.7**	--	--	--
	10/05/04	**1,700**	**150**	<5.0	**24**	**12**	--	--	--
	12/02/04	**1,400**	**28**	**6.2**	**10**	**23**	--	--	--
	05/27/05	**14,000**	**1,300**	**61.0**	**680**	**300**	--	--	--
NIW-A2	05/13/04	**970**	**18**	<2.5	<2.5	**4**	--	--	--
	06/18/04	**200**	**6.4**	**1.7**	**2.1**	**3.5**	--	--	--
	08/27/04	<500	**6.3**	<5.0	<5.0	<10	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	**550**	**14.0**	**0.7**	**1.8**	**0.93**	--	--	--
Nitrate Injection Area - B Zone Injection Wells									
NIW-B1	05/13/04	**170**	**6.5**	**1.1**	**2.4**	**8.0**	--	--	--
	06/18/04	**160**	**2.9**	**0.7**	**2.6**	**2.5**	--	--	--
	08/27/04	**110**	**6.9**	<0.5	**1.4**	**2.0**	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
NIW-B2	05/13/04	**260**	**8.9**	**1.5**	**4**	**8.4**	--	--	--
	06/18/04	**120**	**1.0**	<0.5	**1.1**	<1.0	--	--	--
	08/27/04	**120**	**4.4**	<0.5	**1.1**	**1.6**	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
Nitrate Injection Area - Observation Wells									
NOBS-B1	05/13/04	**120**	**4.6**	**0.8**	**2.3**	**5.4**	--	--	--
	06/18/04	**88**	**1.9**	**0.7**	**1.7**	<1.0	--	--	--
	08/27/04	**180**	**5.5**	**0.53**	**0.99**	**1.6**	--	--	--
	12/02/04	<50	2.0	<0.5	<0.5	<1.0	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/30/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--

Abbreviations:

mg/L = micrograms per liter

MTBE = methyl tert-butyl ether

TPH-G = Total Petroleum Hydrocarbons, Gasoline Range

-- = water sample not analyzed for specified constituents

DUP = Duplicate

Notes:

Bold indicates detected concentration.

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

Highlighted cells indicate data from 2014 sampling events

FIGURES

Second Semi-Annual 2014 Groundwater Monitoring Report

PN: 185702934
October 31, 2014

Stantec

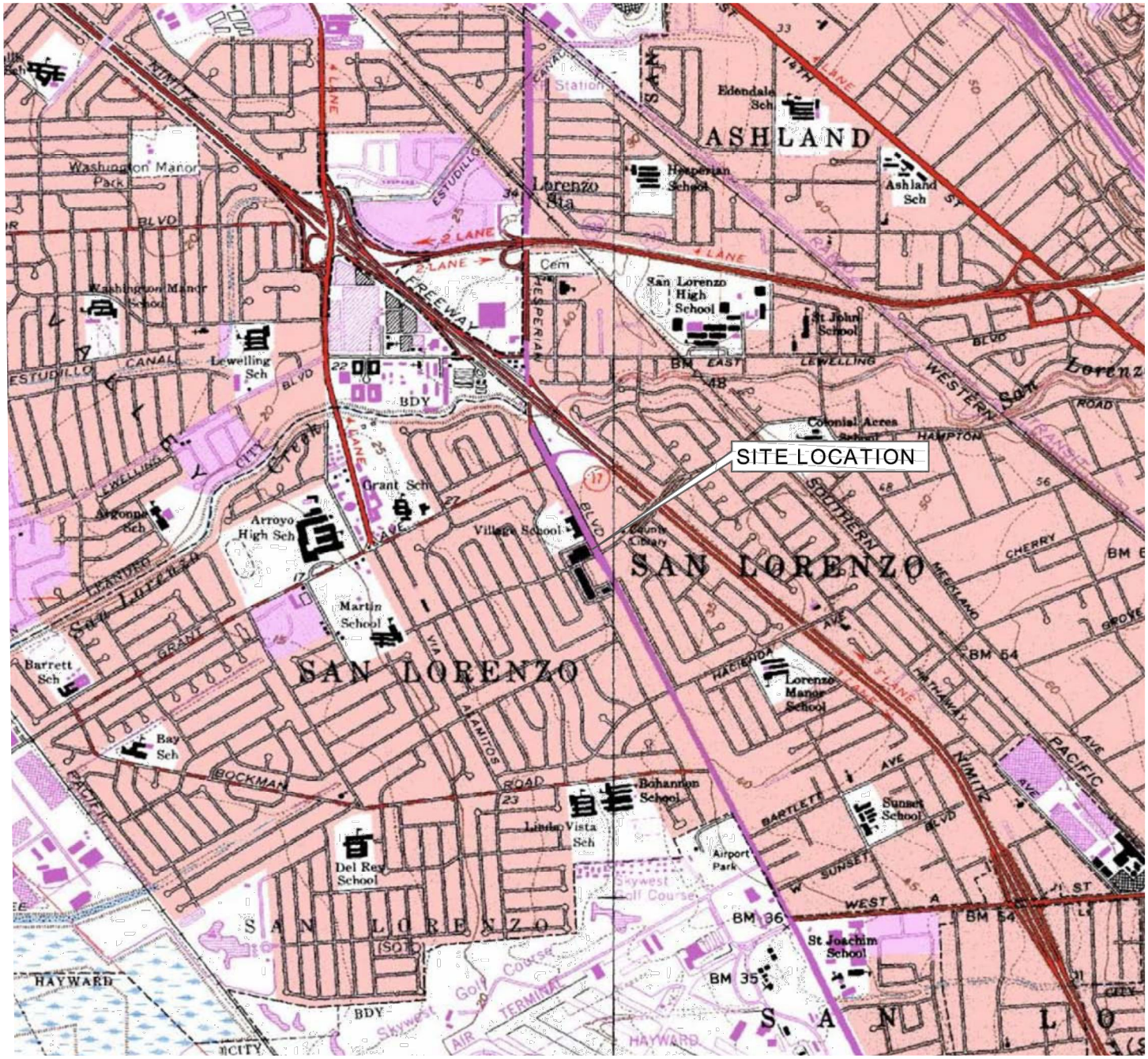
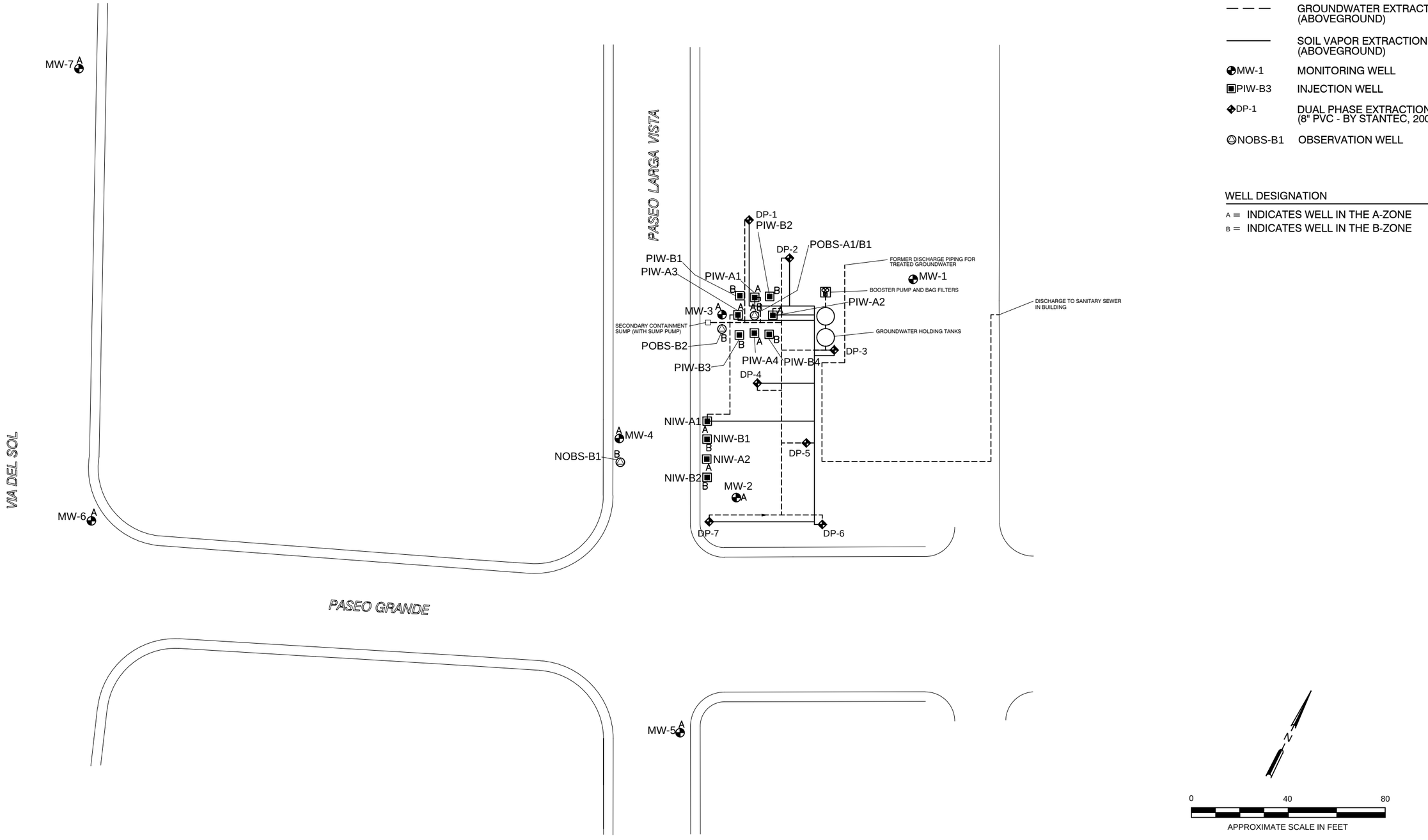


Image courtesy of the U.S. Geological Survey and Microsoft TerraService OpenGIS Map Server

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

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

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\FIG 1_BOHANNON - 575 Paseo_SITE LOCATION MAP.dwg|saguinaldo|Oct 30, 2014 at 14:06|Layout: 8-5X11 P



LEGEND

— — —	GROUNDWATER EXTRACTION PIPING (ABOVEGROUND)
———	SOIL VAPOR EXTRACTION PIPING (ABOVEGROUND)
MW-1	MONITORING WELL
PIW-B3	INJECTION WELL
DP-1	DUAL PHASE EXTRACTION WELL (8" PVC - BY STANTEC, 2005)
NOBS-B1	OBSERVATION WELL

WELL DESIGNATION

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

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION

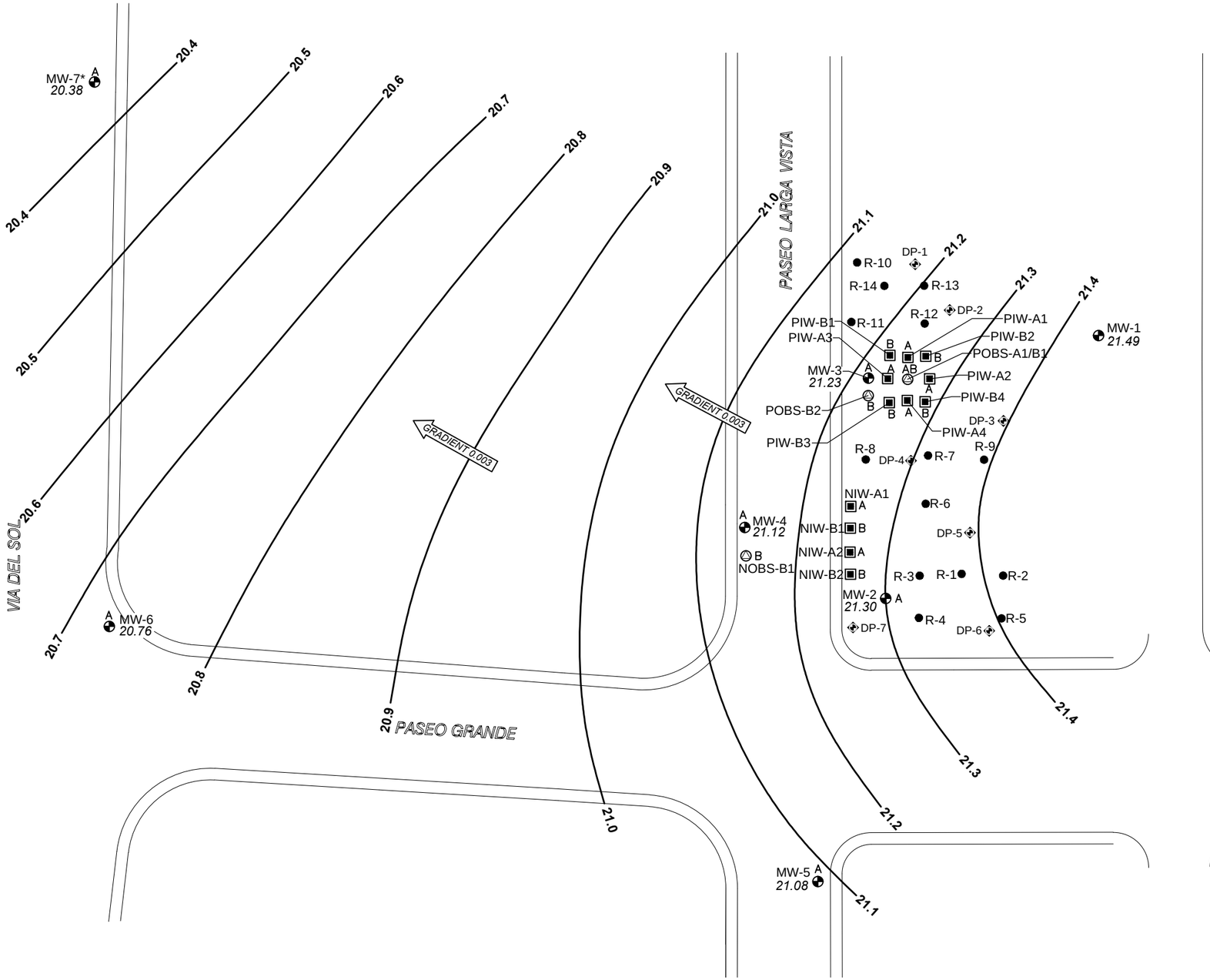
575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE: **2**

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

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2014\3Q 2014\FIG 2_BOHANNON - 575 Paseo_Site Plan.dwg|saguinaldo|Oct 30, 2014 at 14:09|Layout: FIGURE-2



LEGEND

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

WELL DESIGNATION

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

NOTES

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

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION

575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

GROUNDWATER POTENTIOMETRIC SURFACE MAP SEPTEMBER 29, 2014

FIGURE: **3**

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

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

LEGEND

MW-6	MONITORING WELL
PIW-B3	INJECTION WELL
DP-1	DUAL PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
NOBS-B1	OBSERVATION WELL
R-1	SOIL BORING - BY SECOR (ABANDONED JULY, 2005)

WELL DESIGNATION

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

TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

PASEO LARGA VISTA

VIA DEL SOL

PASEO GRANDE

MW-7 (A)

TPH–G	<50
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Total Xylenes	<1.0

MW-3

TPH–G	**830**
Benzene	**370**
Toluene	**5.9**
Ethylbenzene	**1.0**
Total Xylenes	**1.8**

POBS-B2

TPH–G	<50
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Total Xylenes	<1.0

MW-4

TPH–G	**1,100**
Benzene	**14**
Toluene	**0.74**
Ethylbenzene	**0.51**
Total Xylenes	<1.0

NOBS-B1

TPH–G	<50
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Total Xylenes	<1.0

MW-6 (A)

TPH–G	<50
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Total Xylenes	<1.0

MW-5 (A)

TPH–G	<50
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Total Xylenes	<1.0

MW-1

TPH–G	<50
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Total Xylenes	<1.0

POBS-A1

TPH–G	**2,200**
Benzene	**870**
Toluene	**17**
Ethylbenzene	**3.5**
Total Xylenes	**9.1**

POBS-B1

TPH–G	<50
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Total Xylenes	<1.0

MW-2

TPH–G	**2,000**
Benzene	**180**
Toluene	**8.0**
Ethylbenzene	**1.9**
Total Xylenes	**7.7**

R-10, DP-1, R-14, R-13, DP-2, PIW-A1, PIW-B1, R-12, R-11, PIW-A3, PIW-B2, POBS-A1/B1, MW-1, MW-3, PIW-A2, POBS-B2, PIW-B4, DP-3, PIW-A4, PIW-B3, R-8, R-7, R-9, DP-4, NIW-A1, R-6, NIW-B1, DP-5, NIW-A2, NIW-B2, R-3, R-1, R-2, MW-2, R-4, DP-6, R-5, DP-7, MW-4, NOBS-B1

N

0 40 80

APPROXIMATE SCALE IN FEET

Stantec

FOR:
DAVID D. BOHANNON ORGANIZATION

575 PASEO GRANDE
SAN LORENZO, CALIFORNIA

PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUNDWATER SEPTEMBER 29 AND 30, 2014

SHEET: **4**

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

FILEPATH:M:_00 OTHER OFFICES\06-LOS GATOS\BOHANNON\2014\3Q 2014\FIG 4_BOHANNON - 575 Paseo_GW CONCENTRATION.dwg|saguinaldo|Oct 30, 2014 at 14:54|Layout: FIGURE-4

APPENDIX A
Field Data Sheets for the September 2014 Groundwater Monitoring Event

Second Semi-Annual 2014 Groundwater Monitoring Report

PN: 185702934
October 31, 2014

Stantec

Groundwater Sampling Data Sheet

Project #: 185702934 Task No:	Project Name: Bohannon	Date: 9/30/14
Site Location: San Lorenzo	Sampler(s): C. Melancon	
Well ID: MW-1	Depth to Water (DTW) (ft): 8.28	Sample DTW (ft): 8.39
Screen Interval (ft): 5-15	Depth to Bottom (DTB) (ft): 15	Measurements Referenced to: TOC
Tube/Pump Depth (ft): 12	Well Diameter (inch): 2	OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 805

Time (24 hrs)	Volume (G (L))	Temp. (C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
810	1.5	23.88	8.48	1395	7.17	clear	faint	0.43	-113.1
815	2.5	23.34	8.39	1426	7.14	"	"	0.38	-62.6
820	3.5	23.35	8.39	1431	7.07	"	"	0.28	-44.7
825	4.5	23.39	8.39	1435	7.05	"	"	0.26	-40.0
830	5.5	23.42	8.39	1436	7.06	"	"	0.30	-39.2

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

Sampling Time: 830 | **Duplicate Sample ID:** | **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934 Task No:	Project Name: Bohannon	Date: 9/30/14
Site Location: San Lorenzo	Sampler(s): C. Mclaughlin	
Well ID: MW-2	Depth to Water (DTW) (ft): 8.24	Sample DTW (ft): 8.41
Screen Interval (ft): 5-15	Depth to Bottom (DTB) (ft): 15	Measurements Referenced to: TOC
Tube/Pump Depth (ft): 12'	Well Diameter (inch): 2	OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 835

Time (24 hrs)	Volume (G / (L))	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
840	1.5	23.96	8.49	1778	6.85	Clear	Mod.	0.25	-138.8
845	2.5	23.58	8.41	1773	6.82	"	"	0.21	-142.3
850	3.5	23.52	8.41	1755	6.75	"	"	0.20	-139.7
855	4.5	23.47	8.41	1751	6.74	"	"	0.20	-140.4
900	5.5	23.51	8.41	1747	6.74	"	"	0.21	-140.5

Liters / Gallons Purged: 5.5	Pump Rate in (L) or G /min: 200
Sampling Time: 900	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes:

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 9/28/14
Site Location: San Lorenzo		Sampler(s): C. Mulvaney	
Well ID: MW-3	Depth to Water (DTW) (ft): 8.11		Sample DTW (ft): 8.89
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft): 17'	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 1200

Time (24 hrs)	Volume (G / L)	Temp. (°C °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1205	1.5	23.83	8.57	1066	6.82	Clear	Mod.	0.77	-147.9
1210	2.5	23.76	8.80	1069	6.84	"	"	0.50	-140.0
1215	3.0	23.81	8.84	1074	6.85	"	"	0.43	-126.2
1220	3.5	23.86	8.86	1077	6.85	"	"	0.43	-133.1
1225	4.0	23.87	8.87	1079	6.85	"	"	0.43	-132.4

Liters / Gallons Purged: 4.0

Pump Rate in L or G /min: 100

Sampling Time: 1230

Duplicate Sample ID: **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 9/29/14
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: MW-4	Depth to Water (DTW) (ft): 7.52		Sample DTW (ft): 7.64
Screen Interval (ft):	Depth to Bottom (DTB) (ft): 15		Measurements Referenced to: TOC
Tube/Pump Depth (ft): 12	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 1030

Time (24 hrs)	Volume (G / (L))	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1035	1.5	21.90	7.66	1130	6.55	Clear	Mod.	0.33	-174.6
1040	2.5	21.79	7.64	1126	6.45	"	"	0.27	-173.4
1045	3.5	21.68	7.64	1126	6.45	"	"	0.23	-171.1
1050	4.5	21.55	7.64	1121	6.45	"	"	0.21	-169.5
1055	5.5	21.58	7.64	1124	6.46	"	"	0.20	-168.4

Liters / Gallons Purged: 5.5	Pump Rate in (L) or G /min: 200
Sampling Time: 1100	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes: TB-1 (1020)

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 9/30/14
Site Location: San Lorenzo		Sampler(s): C. Melancon	
Well ID: MW-5	Depth to Water (DTW) (ft): 7.48		Sample DTW (ft): 7.57
Screen Interval (ft): 5-15	Depth to Bottom (DTB) (ft): 15		Measurements Referenced to: TOC
Tube/Pump Depth (ft): 11'	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 720

Time (24 hrs)	Volume (G (L))	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
725	1.5	23.73	7.83	974	7.52	clear	none	0.69	-31.6
730	2.5	23.23	7.57	963	7.43	"	"	0.72	-37.1
735	3.5	23.19	7.57	964	7.37	"	"	0.28	-33.5
740	4.5	23.22	7.57	968	7.34	"	"	0.37	-33.6
745	5.5	23.10	7.57	969	7.31	"	"	0.40	-36.9

Liters / Gallons Purged: 5.5

Pump Rate in (L) or G /min: 200

Sampling Time: 750

Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes:

Groundwater Sampling Data Sheet

Project #: 185702934 Task No:	Project Name: Bohannon	Date: 9/30/14
Site Location: San Lorenzo	Sampler(s): C. Mclaycon	
Well ID: MW-6	Depth to Water (DTW) (ft): 6.94	Sample DTW (ft): 6.98
Screen Interval (ft): 5-15	Depth to Bottom (DTB) (ft): 15	Measurements Referenced to: TOC
Tube/Pump Depth (ft): 11	Well Diameter (inch): 2	OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 1025

Time (24 hrs)	Volume (G / L)	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1030	1.5	22.82	7.05	1011	7.17	Clear	none	0.59	33.0
1035	2.5	22.78	6.99	1010	7.10	"	"	0.64	22.3
1040	3.5	22.78	6.99	1009	7.07	"	"	0.61	10.3
1045	4.5	22.70	6.98	1007	7.03	"	"	0.69	11.9
1050	5.5	22.74	6.98	1009	7.01	"	"	0.73	11.1
1055	6.5	22.76	6.98	1010	7.01	"	"	0.76	11.2

Liters / Gallons Purged: 6.5	Pump Rate in L or G /min: 200
Sampling Time: 1100	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934 Task No:	Project Name: Bohannon	Date: 9/30/14
Site Location: San Lorenzo	Sampler(s): C. Melancon	
Well ID: MW-7	Depth to Water (DTW) (ft): 7.84	Sample DTW (ft): 7.88
Screen Interval (ft): 5-15	Depth to Bottom (DTB) (ft): 15	Measurements Referenced to: TOC
Tube/Pump Depth (ft): 12	Well Diameter (inch): 2	OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 930

Time (24 hrs)	Volume (G / L)	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
935	1.5	18.51	7.98	316	7.77	Clear	none	0.60	-38.6
940	2.5	18.49	7.87	317	7.49	"	"	0.46	-30.5
945	3.5	18.40	7.88	330	7.51	"	"	0.52	-38.5
950	4.5	18.31	7.88	349	7.52	"	"	0.51	-32.5
955	5.5	18.34	7.88	352	7.51	"	"	0.43	-28.8

Liters / Gallons Purged: 5.5	Pump Rate in L or G /min: 200
Sampling Time: 1000	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes:

Groundwater Sampling Data Sheet

Project #: 185702934 Task No:	Project Name: Bohannon	Date: 9/29/14
Site Location: San Lorenzo	Sampler(s): C. Wells/Lyon	
Well ID: POBS-A1	Depth to Water (DTW) (ft): 8.54	Sample DTW (ft): 8.91
Screen Interval (ft):	Depth to Bottom (DTB) (ft):	Measurements Referenced to: TOC
Tube/Pump Depth (ft): 5' off TD	Well Diameter (inch): 1"	OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 1335

Time (24 hrs)	Volume (G (L))	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1340	1.5	25.44	8.81	2210	6.65	Clear	Mod.	0.30	-130.0
1345	2.5	25.11	9.02	2208	6.63	"	"	0.25	-131.7
1350	3.0	25.72	8.94	2099	6.63	"	"	0.22	-128.9
1355	3.5	25.45	8.92	2038	6.66	"	"	0.17	-127.4
1400	4.0	25.30	8.91	2019	6.65	"	"	0.17	-126.8

Liters / Gallons Purged: 4.0

Pump Rate in (L) or G /min: 100

Sampling Time: 1400

Duplicate Sample ID: **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 9/29/14
Site Location: San Lorenzo		Sampler(s): C. Miller/Lyccon	
Well ID: POBS-B1	Depth to Water (DTW) (ft): 8.64		Sample DTW (ft): 8.77
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft): 5' off TD	Well Diameter (inch): 1"		OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 1305

Time (24 hrs)	Volume (G / L)	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1310	1.5	23.02	8.87	1472	6.94	Clear	none	0.47	-101.1
1315	2.5	23.65	8.77	1497	6.69	"	"	0.20	-64.1
1320	3.5	23.55	8.77	1497	6.69	"	"	0.15	-53.0
1325	4.5	23.65	8.77	1501	6.70	"	"	0.16	-44.2
1330	5.5	23.75	8.77	1503	6.71	"	"	0.19	-43.7

Liters / Gallons Purged: 5.5	Pump Rate in L or G /min: 200
Sampling Time: 1330	Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes: _____

Groundwater Sampling Data Sheet

Project #: 185702934	**Task No:**	**Project Name:** Bohannon	**Date:** 9/29/14
Site Location: San Lorenzo		**Sampler(s):** C. McLaycon	
Well ID: POBS-B2	**Depth to Water (DTW) (ft):** 7.97		**Sample DTW (ft):** 8.88
Screen Interval (ft):	**Depth to Bottom (DTB) (ft):** 25.9		**Measurements Referenced to:** TOC
Tube/Pump Depth (ft): 20	**Well Diameter (inch):** 2		**OVM (ppm) =** —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 1235

Time (24 hrs)	Volume (G (L))	Temp. (°C / (F))	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1240	1.5	22.09	8.71	1349	6.88	Clear	Faint	0.50	-99.4
1245	2.5	23.49	9.48	1374	6.66	"	"	0.42	-103.1
1250	3.0	24.84	9.13	1385	6.79	"	"	0.37	-111.9
1255	3.5	24.66	8.95	1206	6.81	"	"	0.34	-92.7
1300	4.0	24.91	8.88	1248	6.83	"	"	0.35	-86.9

Liters / Gallons Purged: 4.0

Pump Rate in (L) or G /min: 100

Sampling Time: 1300

Duplicate Sample ID: **Sample Time:**

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes:

Groundwater Sampling Data Sheet

Project #: 185702934	Task No:	Project Name: Bohannon	Date: 9/29/14
Site Location: San Lorenzo		Sampler(s): C. McLaycon	
Well ID: MOBS-B1	Depth to Water (DTW) (ft): 7.43		Sample DTW (ft): 7.48
Screen Interval (ft):	Depth to Bottom (DTB) (ft):		Measurements Referenced to: TOC
Tube/Pump Depth (ft): 5' off TD	Well Diameter (inch): 2		OVM (ppm) = —

CALCULATIONS:

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

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

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

(X) Low-Flow/Micro Purging

( ) Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

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

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

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

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

Begin Purge at 1105

Time (24 hrs)	Volume (G / L)	Temp. (°C / °F)	DTW	Specific Conductivity (µS/cm)	pH (units)	Color	Odor	DO (mg/L)	Redox Potential (mV)
(every 3-5 min)		(± 10%)		(± 10%)	(± 0.2)			(± 10%)	(± 20%)
1110	1.5	21.12	7.53	1115	6.86	clear	none	0.42	-47.3
1115	2.5	21.05	7.48	1107	6.75	"	"	0.63	-38.0
1120	3.5	20.99	7.48	1151	6.74	"	"	0.28	-35.7
1125	4.5	20.93	7.48	1152	6.75	"	"	0.13	-40.4
1130	5.5	20.95	7.48	1153	6.76	"	"	0.12	-40.8

Liters / Gallons Purged: 5.5

Pump Rate in (L) or G /min: 200

Sampling Time: 1130

Duplicate Sample ID: Sample Time:

Sample Analyzed For: SEE WORK ORDER

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

Duplicate Sample Analyzed For: SEE WORK ORDER

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

Notes:

Stantec

HYDROLOGIC DATA SHEET

Date: 9-29-14 Project: *Bohannon*

Technician: C. Melancon Project #: 185702934

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	MEASUREMENT			COMMENTS
		DTW	DTB	Dia	
MW-1	945	8.28		2	
MW-2	950	8.24		2	
MW-3	1000	8.11		2	
MW-4	935	7.52		2	
MW-5	930	7.48		2	
MW-6	925	6.94		2	checked DTW on 9-30, still 6.94
MW-7	925*	7.84		2	car on well Gauged on 9-30
POBS-A1	955	8.54		1	
POBS-B1	1010	8.64		1	
POBS-B2	1005	7.97	25.9	2	
NOBS-B1	940	7.43		2	
no purge D was on site					
placed purge water in system holding tank					
currently ~100 gal in tank					
Marked for USA -					
HP-14	by 627	Paseo Grande			
HP-15	by 15970	DelSol			
HP-16	by 15962	DelSol			
SV-15&16	by Site on	Larga Vista			
SV-17	by 15967	Larga Vista			
SV-18&19	by 15975	in			

EQUIPCO RENTALS

YSI 556MPS RENTAL
CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: MM DATE: 9-26-16

INSTRUMENT INFORMATION

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

CALIBRATION INFORMATION

PARAMETERS:	STANDARDS:	PASS ( )	LOT#
1. CONDUCTIVITY	10,000 µMhos	✓	10406
2. pH ZERO	pH 7	✓	38447
3. pH SLOPE	pH 4	✓	38366
pH SLOPE	pH 10	✓	37962
4. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	✓	N/A
5. REDOX (ORP)	232 mV (YSI Zobell solution)	✓	091114

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

CHAIN OF CUSTODY RECORD

Stantec

Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702934

DATE: 9-30-14

PAGE: 1 OF 1

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo, CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [X] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C): 3.7c

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	Laboratory Notes
	TB-1	9-29-14	1020	W	3	HCl	X	
	MW-4		1100					
	NOBS-B1		1130					
	MW-3		1230					
	POBS-B2		1300					
	POBS-B1		1330					
	POBS-A1		1400					
	MW-5	9-30-14	750					
	MW-1		830					
	MW-2		900					
	MW-7		1000					
	MW-6		1100					

	Date	Time		Date	Time
Relinquished by: (Signature)	9-30-14	1210	Received by: (Signature)	9-30-14	1210
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

APPENDIX B
Laboratory Analytical Report of Chain-of-Custody for the September 2014 Groundwater Monitoring Event

Second Semi-Annual 2014 Groundwater Monitoring Report

PN: 185702934
October 31, 2014

Stantec

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 720-60237-1
Client Project/Site: Bohannon San Lorenzo

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

Attn: Mrs. Eva Hey

Authorized for release by:
10/14/2014 4:18:16 PM

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

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

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

Job ID: 720-60237-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-60237-1

Comments
No additional comments.

Receipt
The samples were received on 9/30/2014 12:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: TB-1 — Lab Sample ID: 720-60237-1

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 720-60237-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	0.51		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	0.74		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	1100		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: NOBS-B1 — Lab Sample ID: 720-60237-3

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 720-60237-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	370		5.0		ug/L	10		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	5.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	1.8		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	830		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: POBS-B2 — Lab Sample ID: 720-60237-5

No Detections.

Client Sample ID: POBS-B1 — Lab Sample ID: 720-60237-6

No Detections.

Client Sample ID: POBS-A1 — Lab Sample ID: 720-60237-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	870		10		ug/L	20		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	3.5		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	17		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	9.1		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2200		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-5 — Lab Sample ID: 720-60237-8

No Detections.

Client Sample ID: MW-1 — Lab Sample ID: 720-60237-9

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 720-60237-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	180		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Ethylbenzene	1.9		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Toluene	8.0		0.50		ug/L	1		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	7.7		1.0		ug/L	1		8260B/CA_LUFT MS	Total/NA
Gasoline Range Organics (GRO) -C5-C12	2000		50		ug/L	1		8260B/CA_LUFT MS	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 720-60237-11

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 720-60237-12

No Detections.

This Detection Summary does not include radiochemical test results.

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: TB-1
Date Collected: 09/29/14 10:20
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 13:38	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 13:38	1
Toluene	ND		0.50		ug/L			10/10/14 13:38	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 13:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*67 - 130*		*10/10/14 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*72 - 130*		*10/10/14 13:38*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/10/14 13:38*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-4
Date Collected: 09/29/14 11:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**14**		0.50		ug/L			10/13/14 14:29	1
Ethylbenzene	**0.51**		0.50		ug/L			10/13/14 14:29	1
Toluene	**0.74**		0.50		ug/L			10/13/14 14:29	1
Xylenes, Total	ND		1.0		ug/L			10/13/14 14:29	1
Gasoline Range Organics (GRO) -C5-C12	**1100**		50		ug/L			10/13/14 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*67 - 130*		*10/13/14 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*10/13/14 14:29*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/13/14 14:29*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: NOBS-B1
Date Collected: 09/29/14 11:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 22:26	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 22:26	1
Toluene	ND		0.50		ug/L			10/10/14 22:26	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 22:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*10/10/14 22:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*10/10/14 22:26*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/14 22:26*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-3
Date Collected: 09/29/14 12:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	370		5.0		ug/L			10/13/14 12:59	10
Ethylbenzene	1.0		0.50		ug/L			10/10/14 22:56	1
Toluene	5.9		0.50		ug/L			10/10/14 22:56	1
Xylenes, Total	1.8		1.0		ug/L			10/10/14 22:56	1
Gasoline Range Organics (GRO) -C5-C12	830		50		ug/L			10/10/14 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*67 - 130*		*10/10/14 22:56*	*1*
4-Bromofluorobenzene	*101*		*67 - 130*		*10/13/14 12:59*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*10/10/14 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*10/13/14 12:59*	*10*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/14 22:56*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/13/14 12:59*	*10*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-B2
Date Collected: 09/29/14 13:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 23:26	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 23:26	1
Toluene	ND		0.50		ug/L			10/10/14 23:26	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 23:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*10/10/14 23:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*10/10/14 23:26*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/14 23:26*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-B1
Date Collected: 09/29/14 13:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 23:56	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 23:56	1
Toluene	ND		0.50		ug/L			10/10/14 23:56	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 23:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*10/10/14 23:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*10/10/14 23:56*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/10/14 23:56*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-A1
Date Collected: 09/29/14 14:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	870		10		ug/L			10/13/14 15:00	20
Ethylbenzene	3.5		0.50		ug/L			10/11/14 00:26	1
Toluene	17		0.50		ug/L			10/11/14 00:26	1
Xylenes, Total	9.1		1.0		ug/L			10/11/14 00:26	1
Gasoline Range Organics (GRO) -C5-C12	2200		50		ug/L			10/11/14 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*10/11/14 00:26*	*1*
4-Bromofluorobenzene	*100*		*67 - 130*		*10/13/14 15:00*	*20*
1,2-Dichloroethane-d4 (Surr)	*110*		*72 - 130*		*10/11/14 00:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*		*10/13/14 15:00*	*20*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/11/14 00:26*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/13/14 15:00*	*20*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-5
Date Collected: 09/30/14 07:50
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 15:26	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 15:26	1
Toluene	ND		0.50		ug/L			10/11/14 15:26	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 15:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*10/11/14 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*72 - 130*		*10/11/14 15:26*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/11/14 15:26*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-1
Date Collected: 09/30/14 08:30
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 15:55	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 15:55	1
Toluene	ND		0.50		ug/L			10/11/14 15:55	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 15:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*10/11/14 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 130*		*10/11/14 15:55*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/11/14 15:55*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-2
Date Collected: 09/30/14 09:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	180		0.50		ug/L			10/11/14 16:25	1
Ethylbenzene	1.9		0.50		ug/L			10/11/14 16:25	1
Toluene	8.0		0.50		ug/L			10/11/14 16:25	1
Xylenes, Total	7.7		1.0		ug/L			10/11/14 16:25	1
Gasoline Range Organics (GRO) -C5-C12	2000		50		ug/L			10/11/14 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*67 - 130*		*10/11/14 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*10/11/14 16:25*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/11/14 16:25*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-7
Date Collected: 09/30/14 10:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 16:55	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 16:55	1
Toluene	ND		0.50		ug/L			10/11/14 16:55	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 16:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*10/11/14 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*10/11/14 16:55*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/11/14 16:55*	*1*

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: MW-6
Date Collected: 09/30/14 11:00
Date Received: 09/30/14 12:10

Lab Sample ID: 720-60237-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 17:25	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 17:25	1
Toluene	ND		0.50		ug/L			10/11/14 17:25	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 17:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*67 - 130*		*10/11/14 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*		*10/11/14 17:25*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/11/14 17:25*	*1*

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

Lab Sample ID: MB 720-168571/4
Matrix: Water
Analysis Batch: 168571

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 09:08	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 09:08	1
Toluene	ND		0.50		ug/L			10/10/14 09:08	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 09:08	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*10/10/14 09:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*10/10/14 09:08*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/14 09:08*	*1*

Lab Sample ID: LCS 720-168571/5
Matrix: Water
Analysis Batch: 168571

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.0		ug/L		92	79 - 130
Ethylbenzene	25.0	23.9		ug/L		95	80 - 120
Toluene	25.0	23.2		ug/L		93	78 - 120
m-Xylene & p-Xylene	25.0	23.8		ug/L		95	70 - 142
o-Xylene	25.0	23.5		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCS 720-168571/7
Matrix: Water
Analysis Batch: 168571

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	527		ug/L		105	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 720-168571/6
Matrix: Water
Analysis Batch: 168571

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.6		ug/L		95	79 - 130	3	20
Ethylbenzene	25.0	23.9		ug/L		96	80 - 120	0	20

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

Lab Sample ID: LCSD 720-168571/6
Matrix: Water
Analysis Batch: 168571

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	23.6		ug/L		94	78 - 120	2	20
m-Xylene & p-Xylene			25.0	23.8		ug/L		95	70 - 142	0	20
o-Xylene			25.0	24.1		ug/L		96	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 720-168571/8
Matrix: Water
Analysis Batch: 168571

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	527		ug/L		105	62 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*72 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 720-168619/5
Matrix: Water
Analysis Batch: 168619

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/10/14 19:57	1
Ethylbenzene	ND		0.50		ug/L			10/10/14 19:57	1
Toluene	ND		0.50		ug/L			10/10/14 19:57	1
Xylenes, Total	ND		1.0		ug/L			10/10/14 19:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/14 19:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*67 - 130*		*10/10/14 19:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*		*10/10/14 19:57*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/10/14 19:57*	*1*

Lab Sample ID: LCS 720-168619/6
Matrix: Water
Analysis Batch: 168619

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			25.0	23.6		ug/L		94	79 - 130
Ethylbenzene			25.0	23.5		ug/L		94	80 - 120
Toluene			25.0	22.9		ug/L		92	78 - 120
m-Xylene & p-Xylene			25.0	23.4		ug/L		93	70 - 142

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

Lab Sample ID: LCS 720-168619/6
Matrix: Water
Analysis Batch: 168619

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			25.0	23.9		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCS 720-168619/8
Matrix: Water
Analysis Batch: 168619

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	514		ug/L		103	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 720-168619/7
Matrix: Water
Analysis Batch: 168619

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	23.7		ug/L		95	79 - 130	0	20
Ethylbenzene			25.0	23.8		ug/L		95	80 - 120	1	20
Toluene			25.0	23.3		ug/L		93	78 - 120	2	20
m-Xylene & p-Xylene			25.0	23.6		ug/L		94	70 - 142	1	20
o-Xylene			25.0	24.2		ug/L		97	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 720-168619/9
Matrix: Water
Analysis Batch: 168619

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	508		ug/L		102	62 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*

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

Lab Sample ID: LCSD 720-168619/9
Matrix: Water
Analysis Batch: 168619

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 720-60237-6 MS
Matrix: Water
Analysis Batch: 168619

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	23.6		ug/L		94	60 - 140
Ethylbenzene	ND		25.0	22.5		ug/L		90	60 - 140
Toluene	ND		25.0	22.5		ug/L		90	60 - 140
m-Xylene & p-Xylene	ND		25.0	22.3		ug/L		89	60 - 140
o-Xylene	ND		25.0	23.1		ug/L		92	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 720-60237-6 MSD
Matrix: Water
Analysis Batch: 168619

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	23.0		ug/L		92	60 - 140	2	20
Ethylbenzene	ND		25.0	22.6		ug/L		90	60 - 140	0	20
Toluene	ND		25.0	22.2		ug/L		89	60 - 140	1	20
m-Xylene & p-Xylene	ND		25.0	22.5		ug/L		90	60 - 140	1	20
o-Xylene	ND		25.0	23.3		ug/L		93	60 - 140	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 720-168647/4
Matrix: Water
Analysis Batch: 168647

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/11/14 10:42	1
Ethylbenzene	ND		0.50		ug/L			10/11/14 10:42	1
Toluene	ND		0.50		ug/L			10/11/14 10:42	1
Xylenes, Total	ND		1.0		ug/L			10/11/14 10:42	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/11/14 10:42	1

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

Lab Sample ID: MB 720-168647/4
Matrix: Water
Analysis Batch: 168647

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		67 - 130		10/11/14 10:42	1
1,2-Dichloroethane-d4 (Surr)	96		72 - 130		10/11/14 10:42	1
Toluene-d8 (Surr)	84		70 - 130		10/11/14 10:42	1

Lab Sample ID: LCS 720-168647/7
Matrix: Water
Analysis Batch: 168647

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

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCS 720-168647/9
Matrix: Water
Analysis Batch: 168647

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	24.2		ug/L		97	79 - 130		
Ethylbenzene			25.0	23.5		ug/L		94	80 - 120		
Toluene			25.0	28.3		ug/L		113	78 - 120		
m-Xylene & p-Xylene			25.0	23.9		ug/L		96	70 - 142		
o-Xylene			25.0	24.5		ug/L		98	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	88		72 - 130
Toluene-d8 (Surr)	94		70 - 130

Lab Sample ID: LCSD 720-168647/10
Matrix: Water
Analysis Batch: 168647

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	24.3		ug/L		97	79 - 130	0	20
Ethylbenzene			25.0	23.3		ug/L		93	80 - 120	0	20
Toluene			25.0	23.3		ug/L		93	78 - 120	19	20
m-Xylene & p-Xylene			25.0	23.4		ug/L		94	70 - 142	2	20
o-Xylene			25.0	23.9		ug/L		95	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		67 - 130
1,2-Dichloroethane-d4 (Surr)	88		72 - 130

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

Lab Sample ID: LCSD 720-168647/10
Matrix: Water
Analysis Batch: 168647

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 720-168647/8
Matrix: Water
Analysis Batch: 168647

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	446		ug/L		89	62 - 120	18	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 130*
Toluene-d8 (Surr)	*80*		*70 - 130*

Lab Sample ID: 720-60237-8 MS
Matrix: Water
Analysis Batch: 168647

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		25.0	24.4		ug/L		97	60 - 140		
Ethylbenzene	ND		25.0	23.7		ug/L		95	60 - 140		
Toluene	ND		25.0	29.6		ug/L		118	60 - 140		
m-Xylene & p-Xylene	ND		25.0	23.4		ug/L		94	60 - 140		
o-Xylene	ND		25.0	24.1		ug/L		96	60 - 140		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 720-60237-8 MSD
Matrix: Water
Analysis Batch: 168647

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.2		ug/L		97	60 - 140	1	20
Ethylbenzene	ND		25.0	23.9		ug/L		96	60 - 140	1	20
Toluene	ND		25.0	23.3	F2	ug/L		93	60 - 140	24	20
m-Xylene & p-Xylene	ND		25.0	23.7		ug/L		95	60 - 140	1	20
o-Xylene	ND		25.0	24.1		ug/L		96	60 - 140	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 720-168671/5
Matrix: Water
Analysis Batch: 168671

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			10/13/14 10:15	1
Ethylbenzene	ND		0.50		ug/L			10/13/14 10:15	1
Toluene	ND		0.50		ug/L			10/13/14 10:15	1
Xylenes, Total	ND		1.0		ug/L			10/13/14 10:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/13/14 10:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*67 - 130*		*10/13/14 10:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 130*		*10/13/14 10:15*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/13/14 10:15*	*1*

Lab Sample ID: LCS 720-168671/6
Matrix: Water
Analysis Batch: 168671

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	24.0		ug/L		96	79 - 130		
Ethylbenzene			25.0	24.7		ug/L		99	80 - 120		
Toluene			25.0	23.8		ug/L		95	78 - 120		
m-Xylene & p-Xylene			25.0	24.5		ug/L		98	70 - 142		
o-Xylene			25.0	25.0		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCS 720-168671/8
Matrix: Water
Analysis Batch: 168671

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	568		ug/L		114	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 720-168671/7
Matrix: Water
Analysis Batch: 168671

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	23.5		ug/L		94	79 - 130	2	20
Ethylbenzene			25.0	24.0		ug/L		96	80 - 120	3	20

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

Lab Sample ID: LCSD 720-168671/7
Matrix: Water
Analysis Batch: 168671

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			25.0	23.4		ug/L		94	78 - 120	2	20
m-Xylene & p-Xylene			25.0	24.1		ug/L		96	70 - 142	2	20
o-Xylene			25.0	24.2		ug/L		97	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 720-168671/9
Matrix: Water
Analysis Batch: 168671

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	553		ug/L		111	62 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

GC/MS VOA

Analysis Batch: 168571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-1	TB-1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168571/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168571/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168571/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168571/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168571/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 168619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-3	NOBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-5	POBS-B2	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-6	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-6 MS	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-6 MSD	POBS-B1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-7	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168619/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168619/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168619/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168619/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168619/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 168647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-8	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-8 MS	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-8 MSD	MW-5	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-9	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-10	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-11	MW-7	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-12	MW-6	Total/NA	Water	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 168647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-168647/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168647/9	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168647/10	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168647/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168647/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 168671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-60237-2	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
720-60237-7	POBS-A1	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168671/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-168671/8	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168671/7	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-168671/9	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-168671/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Lab Chronicle

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: TB-1

Lab Sample ID: 720-60237-1

Date Collected: 09/29/14 10:20
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168571	10/10/14 13:38	ASC	TAL PLS

Client Sample ID: MW-4

Lab Sample ID: 720-60237-2

Date Collected: 09/29/14 11:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168671	10/13/14 14:29	ASC	TAL PLS

Client Sample ID: NOBS-B1

Lab Sample ID: 720-60237-3

Date Collected: 09/29/14 11:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 22:26	PDR	TAL PLS

Client Sample ID: MW-3

Lab Sample ID: 720-60237-4

Date Collected: 09/29/14 12:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 22:56	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		10	168671	10/13/14 12:59	ASC	TAL PLS

Client Sample ID: POBS-B2

Lab Sample ID: 720-60237-5

Date Collected: 09/29/14 13:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 23:26	PDR	TAL PLS

Client Sample ID: POBS-B1

Lab Sample ID: 720-60237-6

Date Collected: 09/29/14 13:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/10/14 23:56	PDR	TAL PLS

Lab Chronicle

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

TestAmerica Job ID: 720-60237-1

Client Sample ID: POBS-A1

Lab Sample ID: 720-60237-7

Date Collected: 09/29/14 14:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168619	10/11/14 00:26	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		20	168671	10/13/14 15:00	ASC	TAL PLS

Client Sample ID: MW-5

Lab Sample ID: 720-60237-8

Date Collected: 09/30/14 07:50
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 15:26	ASC	TAL PLS

Client Sample ID: MW-1

Lab Sample ID: 720-60237-9

Date Collected: 09/30/14 08:30
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 15:55	ASC	TAL PLS

Client Sample ID: MW-2

Lab Sample ID: 720-60237-10

Date Collected: 09/30/14 09:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 16:25	ASC	TAL PLS

Client Sample ID: MW-7

Lab Sample ID: 720-60237-11

Date Collected: 09/30/14 10:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 16:55	ASC	TAL PLS

Client Sample ID: MW-6

Lab Sample ID: 720-60237-12

Date Collected: 09/30/14 11:00
Matrix: Water
Date Received: 09/30/14 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	168647	10/11/14 17:25	ASC	TAL PLS

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 720-60237-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

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

TestAmerica Job ID: 720-60237-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS

Protocol References:

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

Laboratory References:

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

Sample Summary

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

TestAmerica Job ID: 720-60237-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-60237-1	TB-1	Water	09/29/14 10:20	09/30/14 12:10
720-60237-2	MW-4	Water	09/29/14 11:00	09/30/14 12:10
720-60237-3	NOBS-B1	Water	09/29/14 11:30	09/30/14 12:10
720-60237-4	MW-3	Water	09/29/14 12:30	09/30/14 12:10
720-60237-5	POBS-B2	Water	09/29/14 13:00	09/30/14 12:10
720-60237-6	POBS-B1	Water	09/29/14 13:30	09/30/14 12:10
720-60237-7	POBS-A1	Water	09/29/14 14:00	09/30/14 12:10
720-60237-8	MW-5	Water	09/30/14 07:50	09/30/14 12:10
720-60237-9	MW-1	Water	09/30/14 08:30	09/30/14 12:10
720-60237-10	MW-2	Water	09/30/14 09:00	09/30/14 12:10
720-60237-11	MW-7	Water	09/30/14 10:00	09/30/14 12:10
720-60237-12	MW-6	Water	09/30/14 11:00	09/30/14 12:10

156589

720-60237

CHAIN OF CUSTODY RECORD

Stantec

Stantec Walnut Creek Office
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
TEL:(916) 861-0400 FAX:(916)861-0430

Stantec Company Contact(s) for Invoice:
Project Manager: Eva Hey
email: eva.hey@stantec.com

Stantec Project #: 185702934

DATE: 9-30-14

PAGE: 1 OF 1

10/14/2014

Project Name: Bohannon

Address: 575 Paseo Grande, San Lorenzo, CA

Sampler(s) Printed Name: Charles Melancon

Sampler(s) Signature:

Laboratory: TestAmerica

Lab Use Only:

Turn-around Time (Business Days):

10 DAYS [X] 5 DAYS [ ] 72 HR [ ] 48 HR [ ] 24 HR [ ] <24 HR [ ]

[ ] OTHER

Special Instructions or Notes:

Temperature Upon Receipt (C): 3.7c

REQUESTED ANALYSIS

720-60237 Chain of Custody

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	No. of Cont.	Preserve	TPH-g/BTEX by 8260B	Laboratory Notes
	TB-1	9-29-14	1020	W	3	HCL	X	
	MW-4		1100					
	NOBS-B1		1130					
	MW-3		1230					
	POBS-B2		1300					
	POBS-B1		1330					
	POBS-A1		1400					
	MW-5	9-30-14	750					
	MW-1		830					
	MW-2		900					
	MW-7		1000					
	MW-6		1100					

	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	9-30-14	1210		9-30-14	1210
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)		Time:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 720-60237-1

Login Number: 60237

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

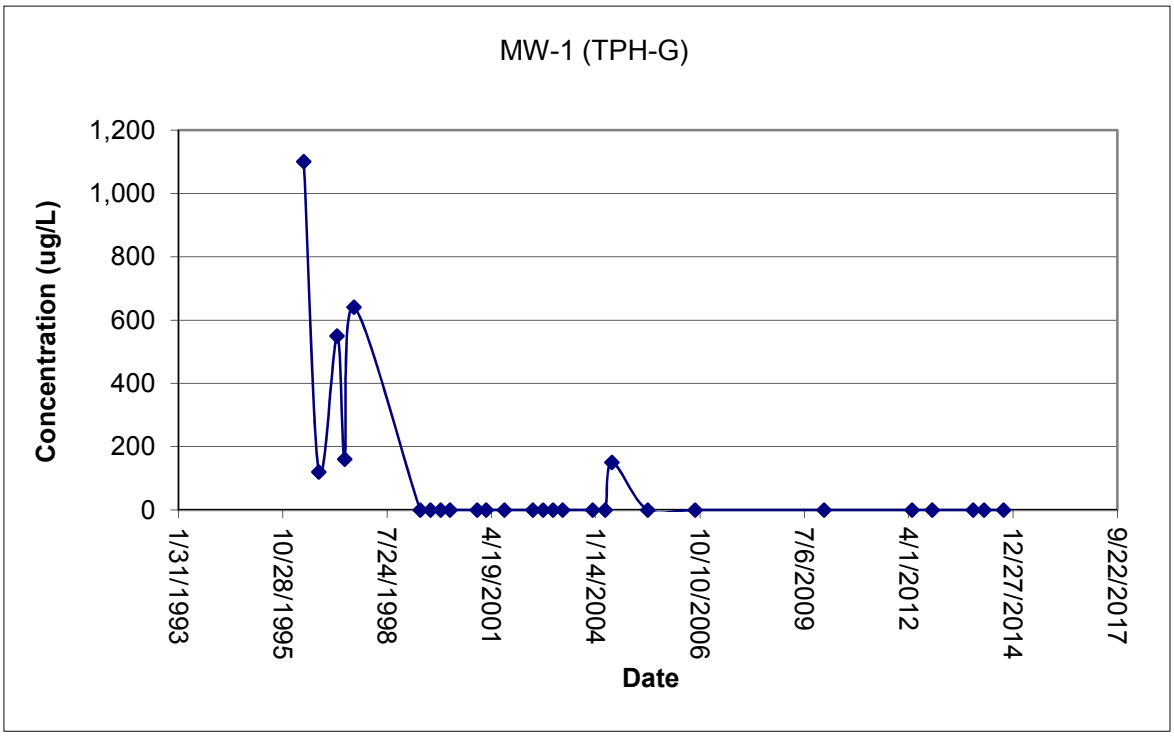
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

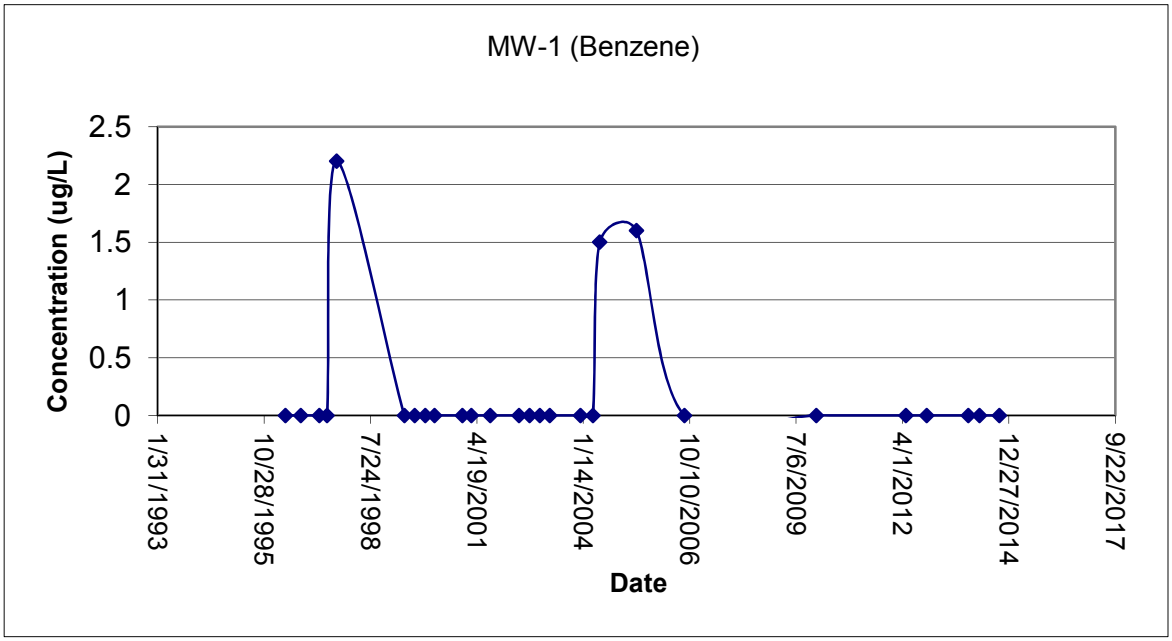
APPENDIX C
Chemical Concentration Trends in Groundwater

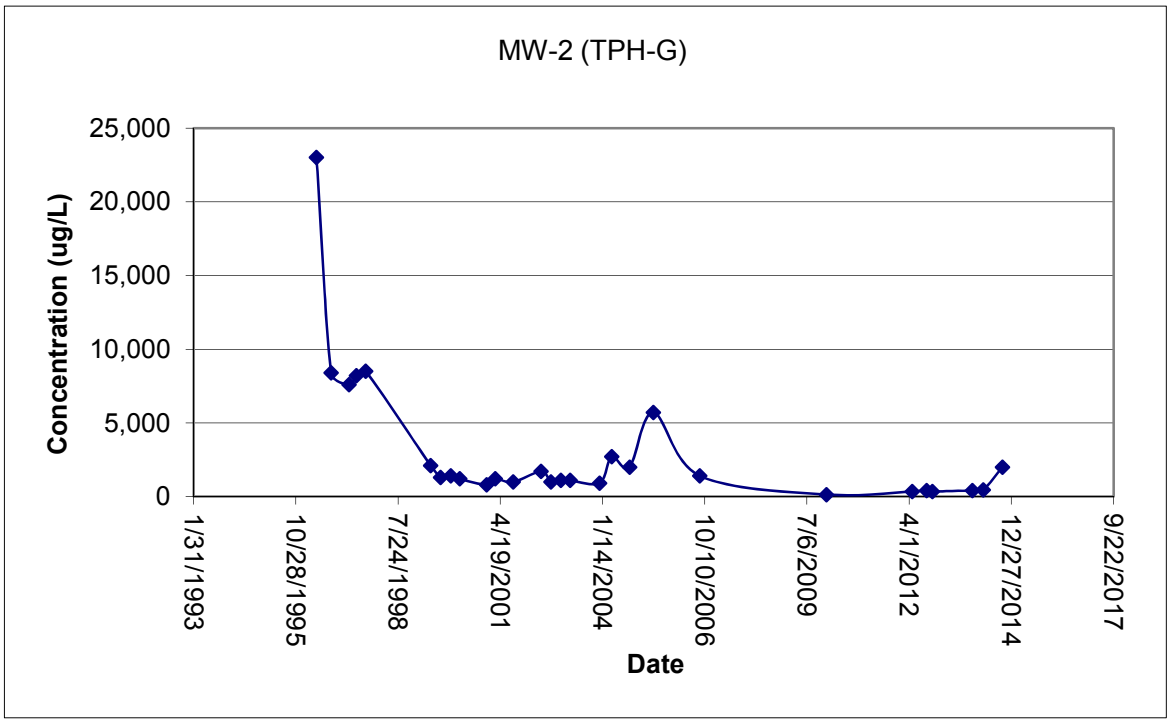
Second Semi-Annual 2014 Groundwater Monitoring Report

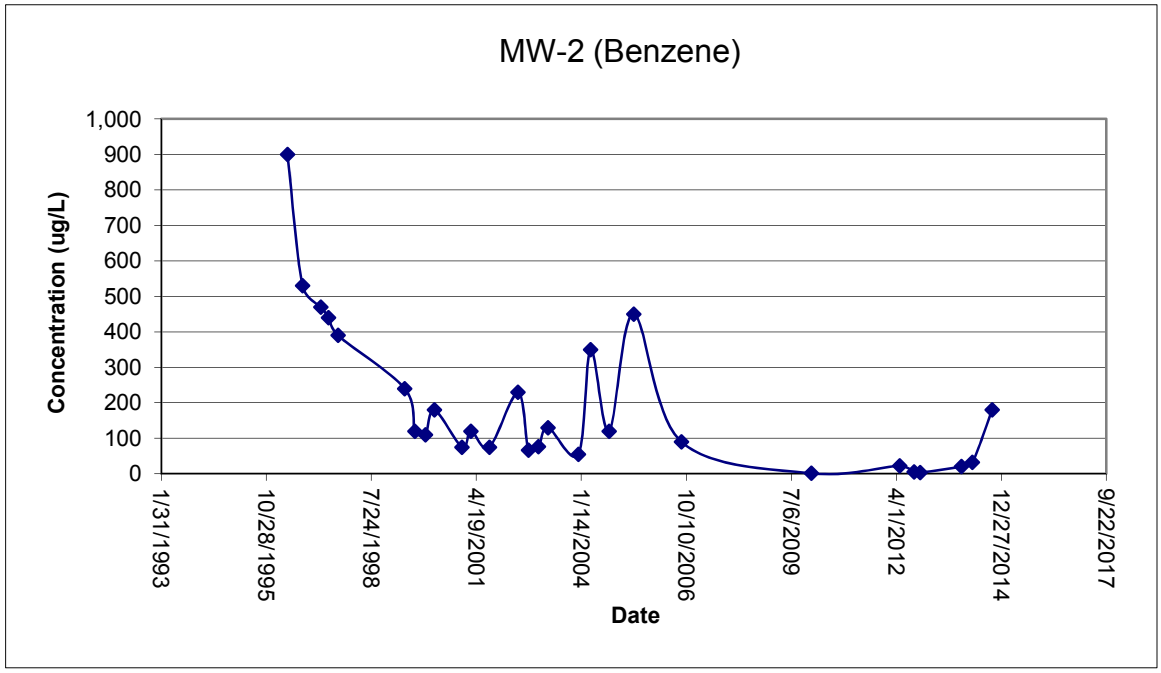
PN: 185702934
October 31, 2014

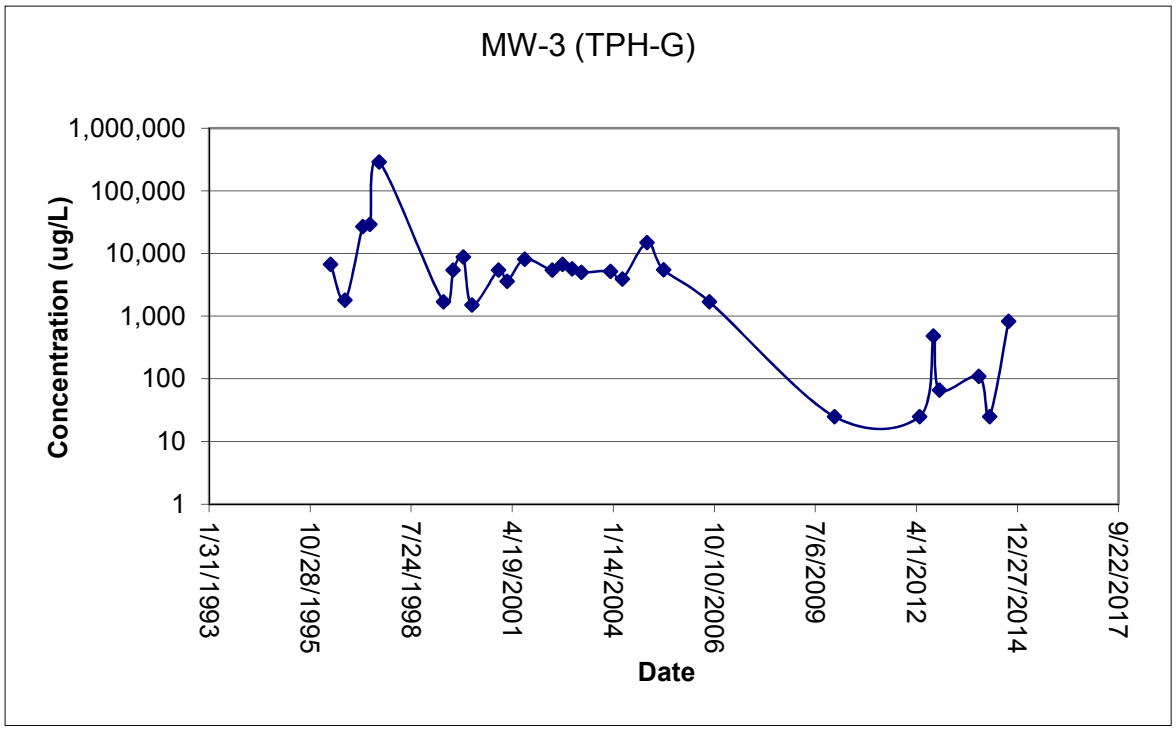
Stantec

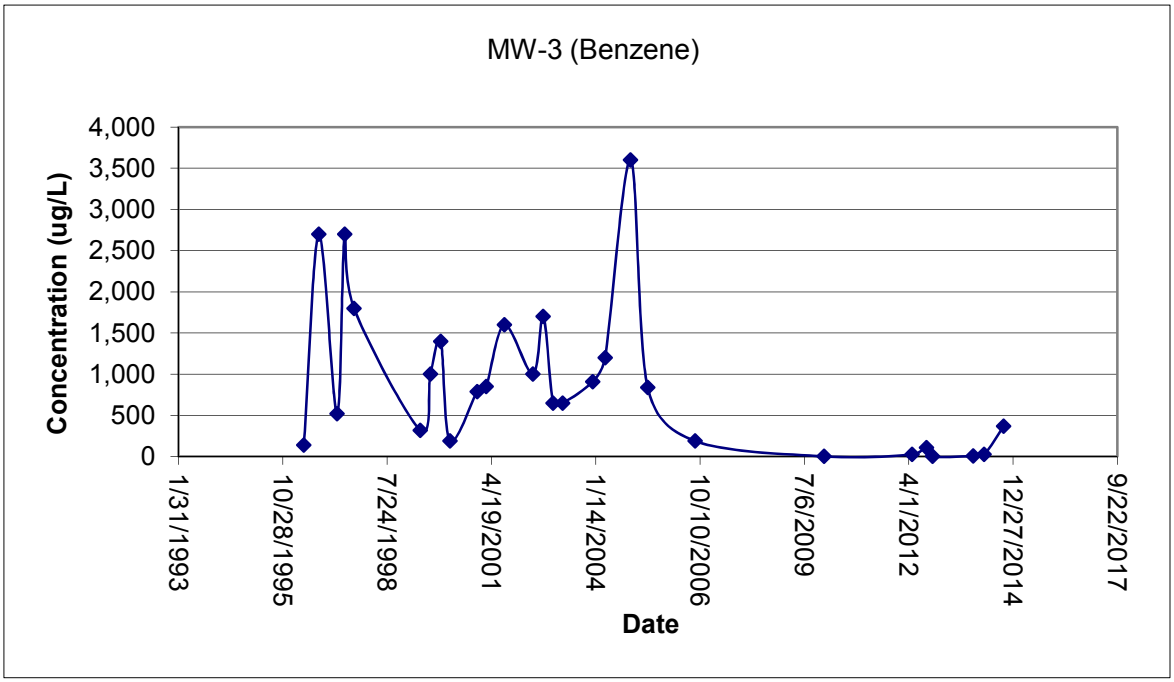

MW-1 (TPH-G)
Concentration (ug/L)
1,200
1,000
800
600
400
200
0
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date

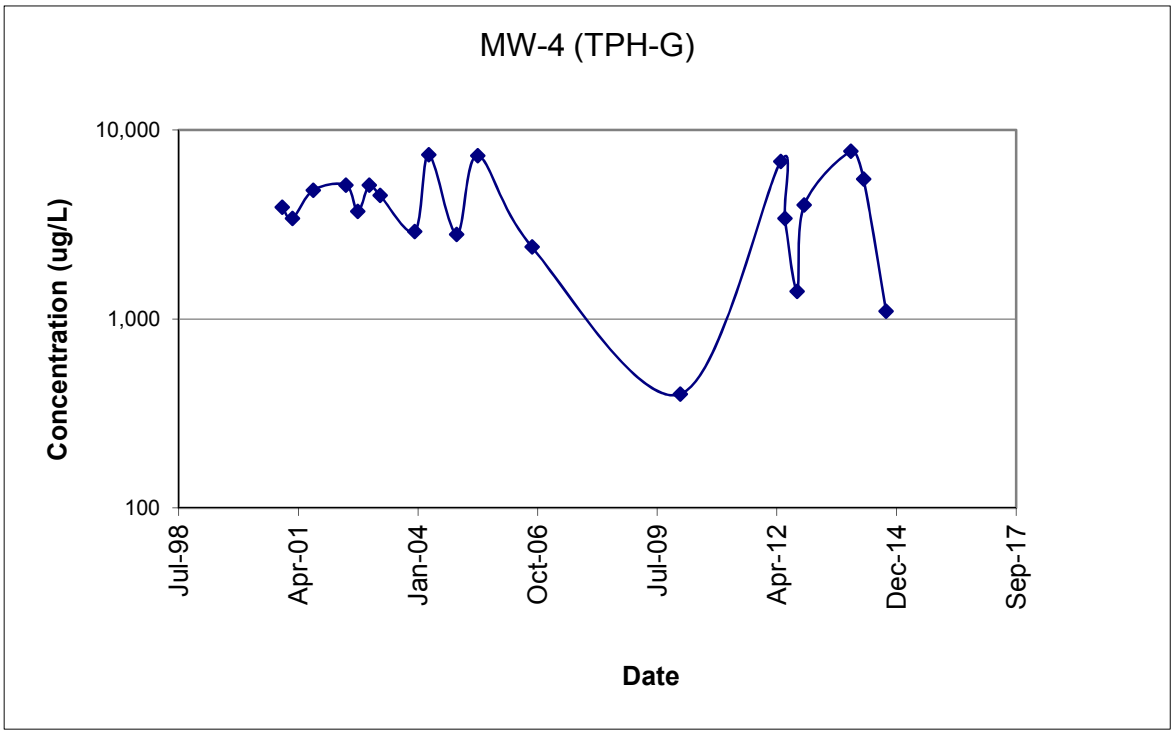

MW-1 (Benzene)
Concentration (ug/L)
2.5
2
1.5
1
0.5
0
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date

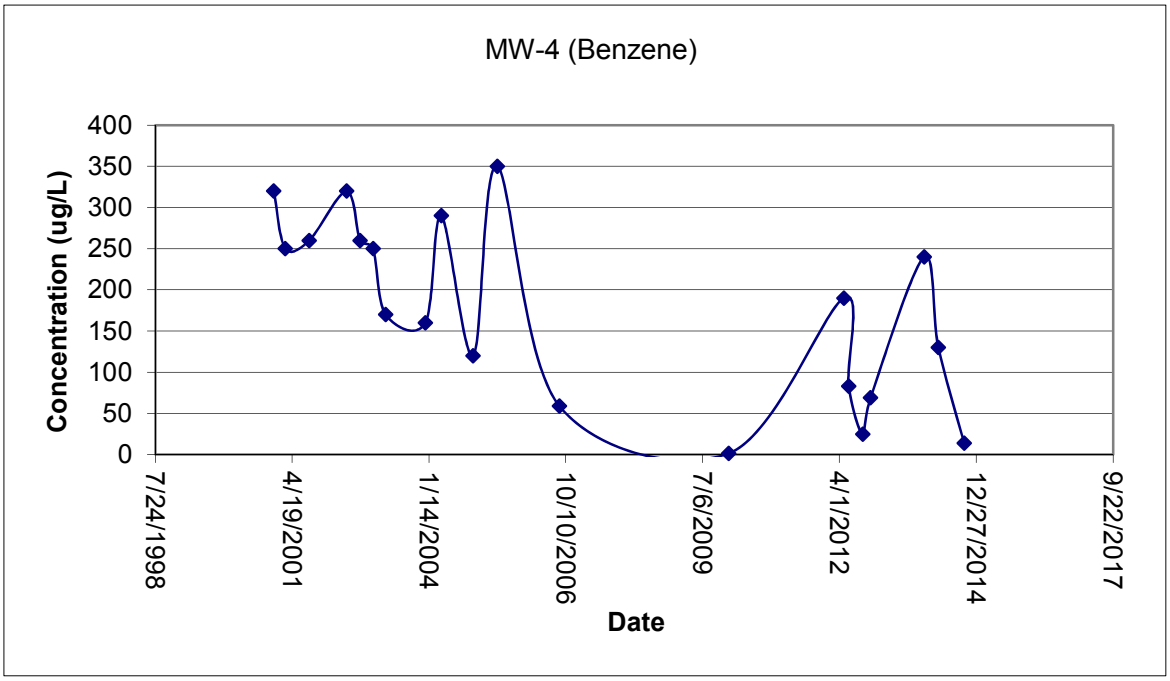

MW-2 (TPH-G)
Concentration (ug/L)
25,000
20,000
15,000
10,000
5,000
0
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date

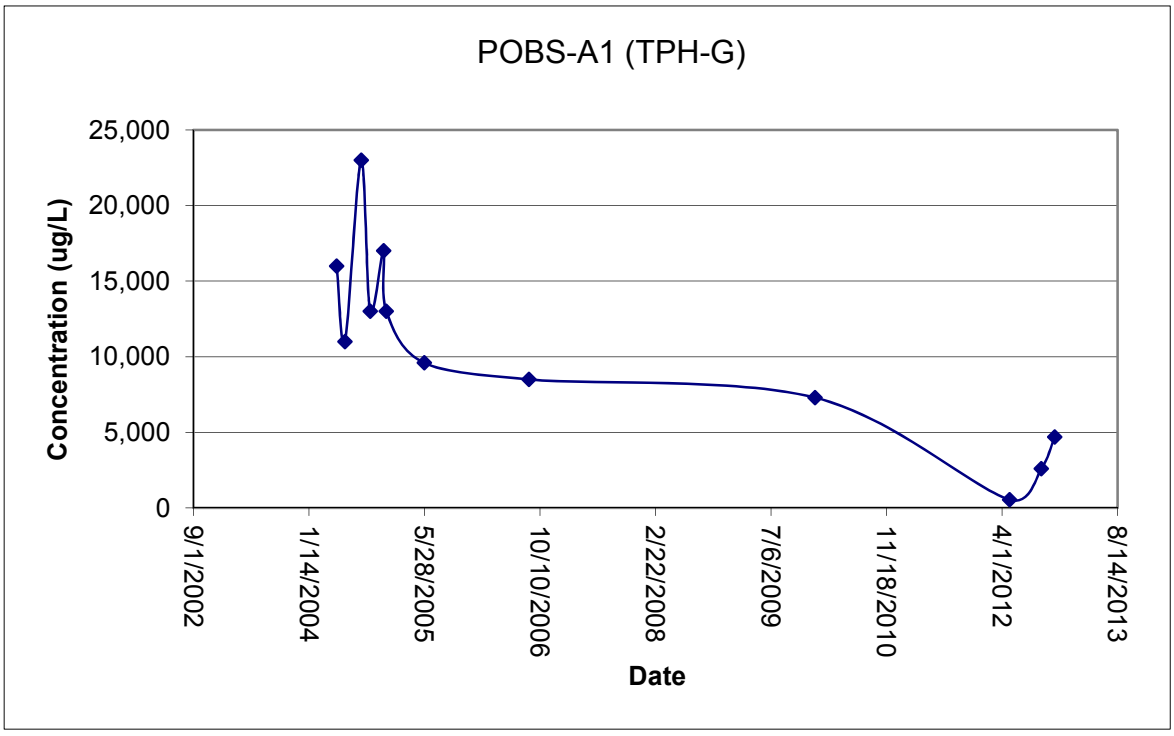

MW-2 (Benzene)
Concentration (ug/L)
1,000
900
800
700
600
500
400
300
200
100
0
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date

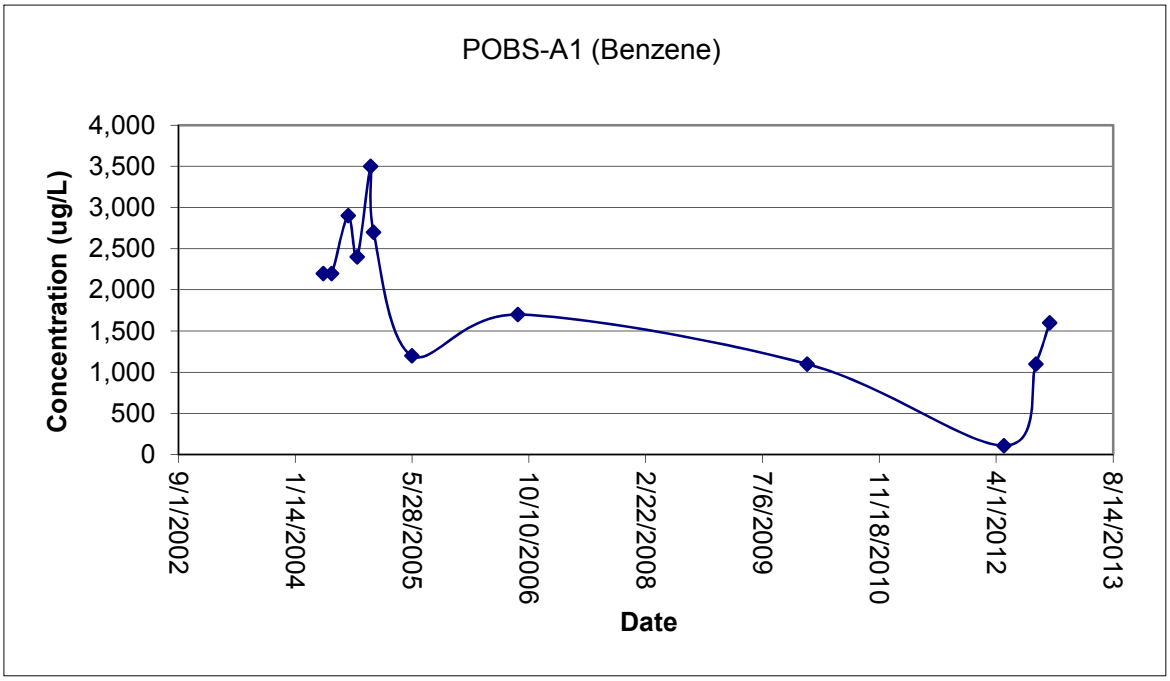

MW-3 (TPH-G)
Concentration (ug/L)
1,000,000
100,000
10,000
1,000
100
10
1
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date

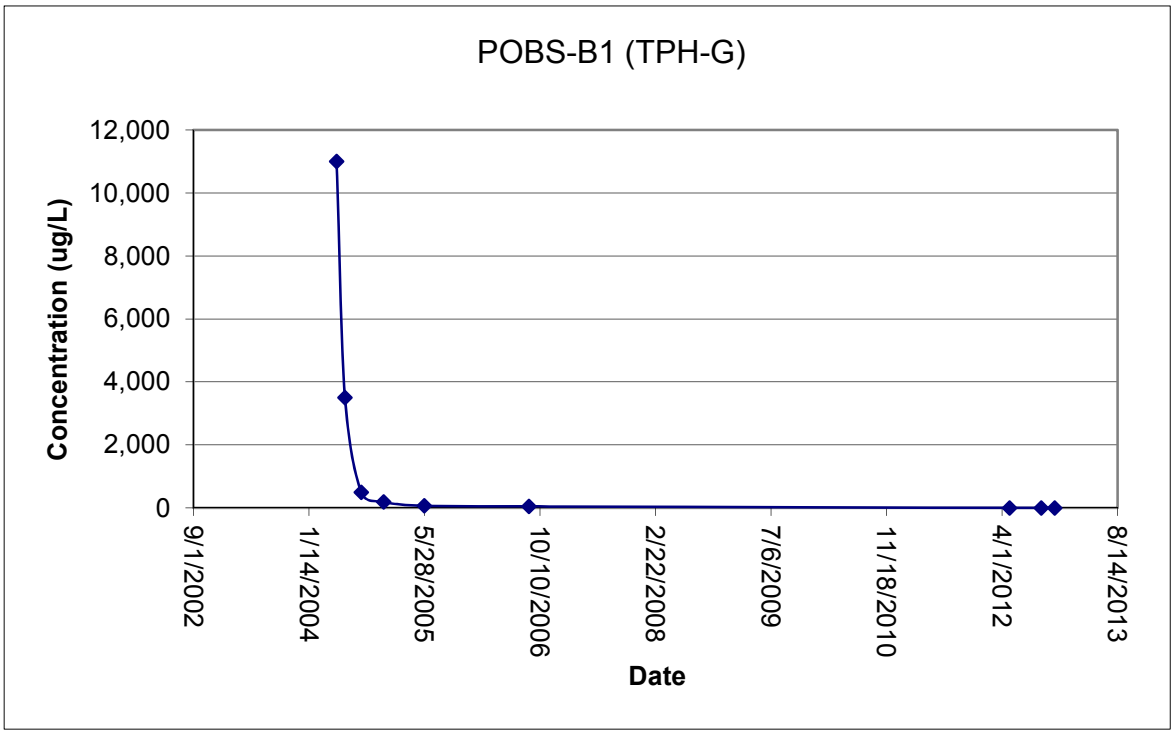

MW-3 (Benzene)
Concentration (ug/L)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
1/31/1993
10/28/1995
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date

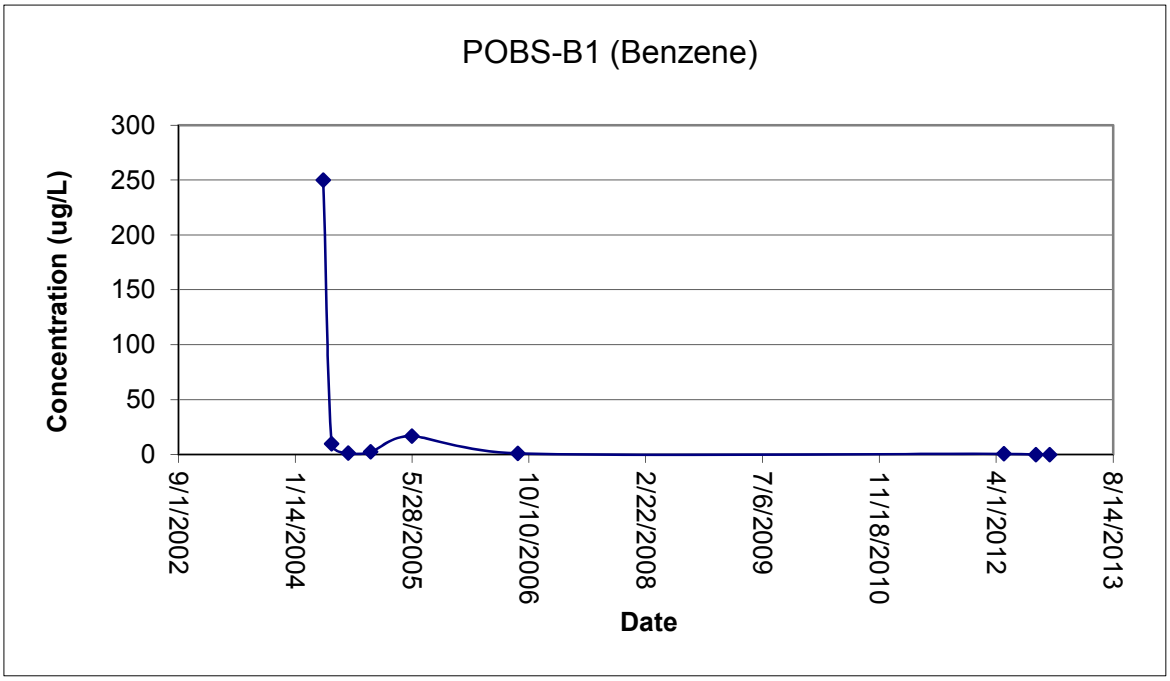

MW-4 (TPH-G)
Concentration (ug/L)
10,000
1,000
100
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12
Dec-14
Sep-17
Date

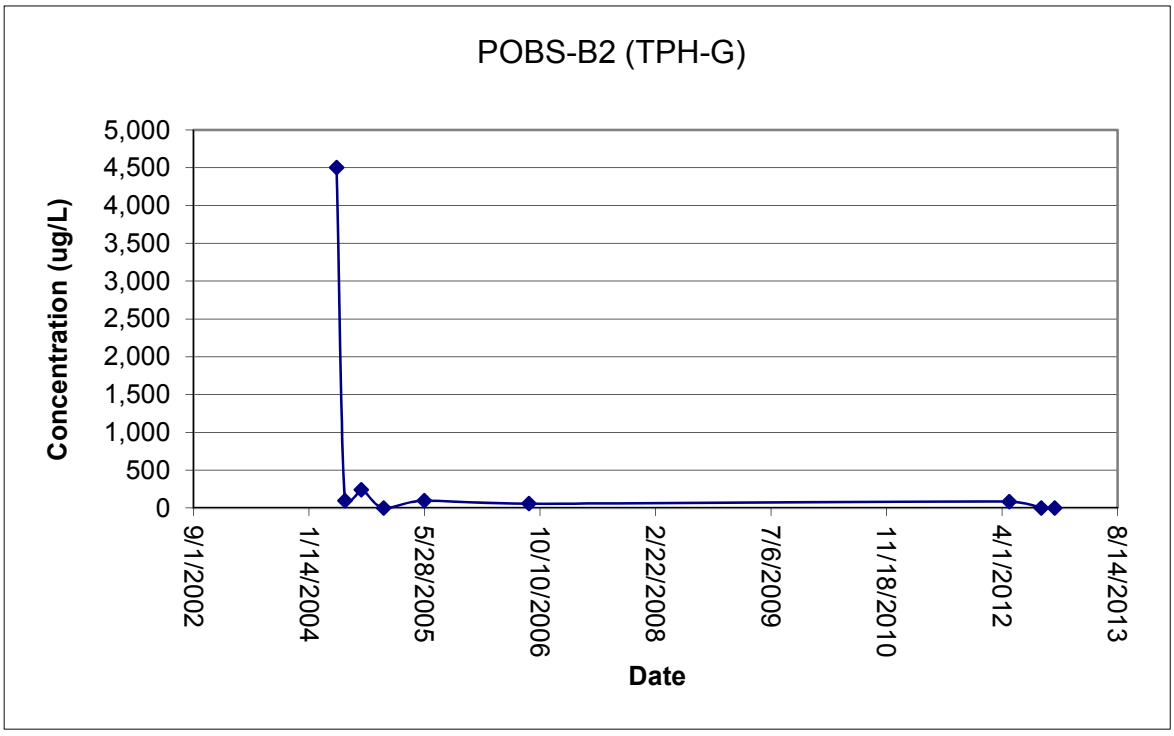

MW-4 (Benzene)
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
7/24/1998
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
Date

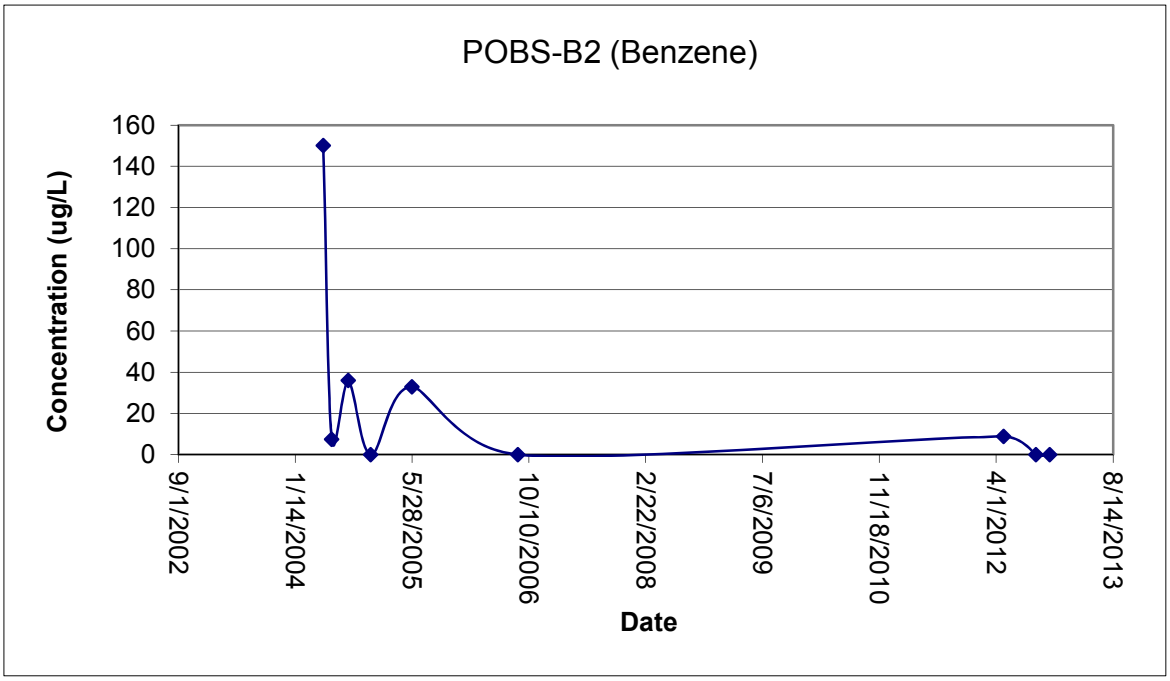

POBS-A1 (TPH-G)
Concentration (ug/L)
25,000
20,000
15,000
10,000
5,000
0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

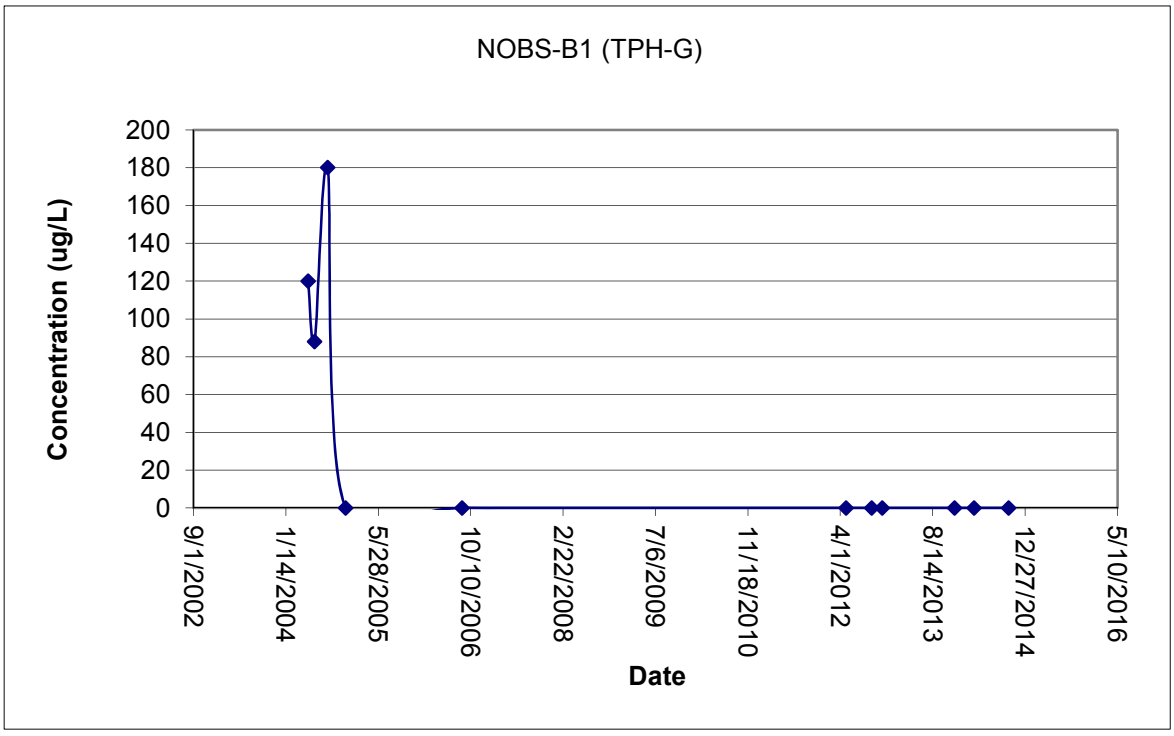

POBS-A1 (Benzene)
Concentration (ug/L)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date

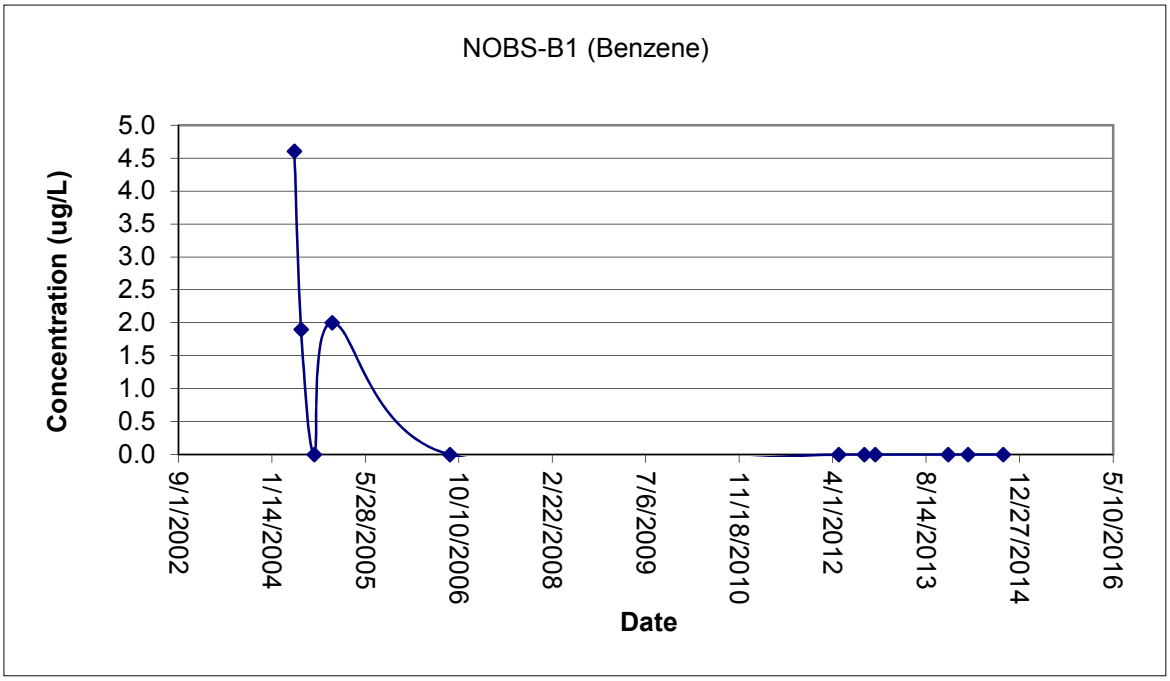

POBS-B1 (TPH-G)
Concentration (ug/L)
12,000
10,000
8,000
6,000
4,000
2,000
0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date


POBS-B1 (Benzene)
Concentration (ug/L)
300
250
200
150
100
50
0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date


POBS-B2 (TPH-G)
Concentration (ug/L)
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date


POBS-B2 (Benzene)
Concentration (ug/L)
160
140
120
100
80
60
40
20
0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
Date


NOBS-B1 (TPH-G)
Concentration (ug/L)
200
180
160
140
120
100
80
60
40
20
0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
Date


NOBS-B1 (Benzene)
Concentration (ug/L)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
Date