INTERA Incorporated
1435 S. St. Francis Drive, Suite 103
Santa Fe, New Mexico 87505 USA
505.428.0066

June 25, 2015

Ms. Dawn Bascomb
NMED Petroleum Storage Tank Bureau
121 Tijeras Avenue NE
Albuquerque, New Mexico 87102

RE: 2nd Semi-Annual Groundwater Monitoring Report, Barelas Bridge Site, Facility #29854; RID #54, 800 Bridge Boulevard Southwest, Albuquerque, Bernalillo County, New Mexico

Dear Ms. Bascomb,

INTERA Incorporated (INTERA) is submitting the above-referenced report. This report completes the scope of work for deliverable identification number 3778-2. There was no reduction in scope associated with WPID # 3778. Once a deliverable acceptance letter is received the total amount that will be invoiced including NMGRT is **$5,400.00.** Also included is a CD containing a copy of the report in PDF format.

INTERA appreciates the opportunity to work with the New Mexico Environment Department. Please do not hesitate to contact Ms. Marcillo (505) 428-0066 / emarcillo@intera.com at (505) 428-0066 or Mr. Joseph Tracy (505) 246-1600 ext. 1219 / jtracy@intera.com if you have any questions or require further information.

Sincerely,

INTERA Incorporated

Eileen Marcillo
Project Manager/Hydrologist

Joseph J. Tracy
Principal Geologist

Enclosure

2nd SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Barelas Bridge Site, Facility # 29854; Release ID # 54

800 Bridge Boulevard Southwest
Albuquerque, Bernalillo County, New Mexico

Prepared for:

New Mexico Environment Department
Petroleum Storage Tank Bureau
121 Tijeras Avenue NE
Albuquerque, New Mexico 87102

Prepared by:

INTERA
GEOSCIENCE & ENGINEERING SOLUTIONS

1435 South St. Francis Drive, Unit 103
Santa Fe, New Mexico 87505

June 25, 2015

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Eileen Marcillo
Project Manager
INTERA Incorporated

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ACRONYMS AND ABBREVIATIONS

^{o}C	degrees Celsius
^{o}F	degrees Fahrenheit
µg/L	microgram(s) per liter
µS/cm	microSiemens per centimeter
AEHD	Albuquerque Environmental Health Department
amsl	above mean sea level
AS/SVE	air sparge/soil vapor extraction
btoc	below top of casing
DO	dissolved oxygen
EDB	1,2-dibromoethane
EPA	U.S. Environmental Protection Agency
ft	foot or feet
GT	Groundwater Technology
HEAL	Hall Environmental Analysis Laboratory
$HgCl_2$	mercuric chloride
HNO_3	nitric acid
INTERA	INTERA Incorporated
LBG	Leggette, Brashears & Graham, Inc.
L/min	liters per minute
LNAPL	light non-aqueous phase liquid
mg/L	milligram(s) per liter
mL	milliliter
mV	millivolt(s)
$Na_2S_2O_3$	sodium thiosulfate
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
ORP	oxidation reduction potential

PPE	personal protective equipment
PSE	potentiometric surface elevation
PSTB	Petroleum Storage Tank Bureau
Report	2nd Semi-Annual Groundwater Monitoring Report
RL	reporting limit
Site	Barelas Bridge Site
SSHASP	Site-Specific Health and Safety Plan
UST	underground storage tank
VOC	volatile organic compound

1.0 INTRODUCTION

In accordance with the work plan submitted on August 22, 2014, to the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB), INTERA Incorporated (INTERA) is submitting this *2nd Semi-Annual Groundwater Monitoring Report* (Report) documenting the field activities at the Barelas Bridge Site (Facility #29854; Release ID # 54) (Site) in Albuquerque, New Mexico (**Figure 1**). All activities were completed by INTERA in accordance with the requirements set forth in NMED PSTB Regulations (20.5 New Mexico Administrative Code [NMAC]) and in the work plan approved by PSTB on October 15, 2014 (INTERA, 2014a). The deliverable identification number for this groundwater monitoring event and reporting is 3778-2.

1.1 Background

The Site is located at 800 Bridge Boulevard SW in Albuquerque, New Mexico. A gasoline service station has occupied the Site since the 1940s. Investigation and remediation activities have been ongoing since 1989, when petroleum hydrocarbon contamination was encountered during the removal of four underground storage tanks (USTs). Excavation to remove contaminated soil occurred in the former UST pit area (August 1989) and within the former gasoline station area (October 1989). During excavation activities within the former station area, an approximately 100- to 150-gallon waste-oil tank was encountered and removed. New USTs were installed at the Site in 1990 (**Figure 2**). Information pertaining to the type of petroleum fuel stored at the Site was not available (LBG, 1990). A brief summary of investigation and remediation activities completed at the Site is presented below.

- Between August 1989 and August 1990, the Albuquerque Environmental Health Department (AEHD) completed an initial hydrogeologic investigation, which included the advancement of 19 soil borings, four of which were converted to monitoring wells (MW-1 to MW-4), and the collection and chemical analyses of soil and groundwater samples (LBG, 1990).
- From October to December 1990, Leggette, Brashears & Graham, Inc. (LBG), conducted additional hydrogeologic investigation activities, which included the advancement of five soil borings, four of which were converted to monitoring wells (MW-5 to MW-8); the collection and chemical analyses of soil and groundwater samples; and short pumping tests at two monitoring well locations. LBG concluded that the horizontal extent of contamination was delineated; groundwater flow direction was to the south; the southernmost monitoring wells, MW-1, MW-2, and MW-3, did not contain petroleum hydrocarbons in groundwater at concentrations that exceeded New Mexico Water Quality Control Commission (NMWQCC) standards; and contaminants of concern included

benzene, toluene, ethylbenzene, total xylenes, iron, and manganese (LBG, 1990) (**Figure 2**).

- In August 1992, Groundwater Technology (GT) oversaw the advancement of five soil borings. These borings were completed as multi-purpose wells for use in an air-sparge/soil vapor extraction (AS/SVE) pilot test. Results of the AS/SVE pilot test indicated that an AS/SVE system could effectively remediate the source zone; therefore, GT proposed installing a full-scale system (GT, 1992). Based on existing monitoring wells, it appears that the full-scale AS/SVE system was installed. Documents describing this system and its operation were not reviewed.
- INTERA conducted the 1st semi-annual groundwater monitoring event in December 2014. The estimated groundwater flow direction is to the south-southeast and the estimated magnitude of the hydraulic gradient is 0.002 ft/ft. Groundwater analytical results indicated that total naphthalenes and dissolved iron and manganese existed in groundwater at concentrations that exceed NMWQCC Standards (INTERA, 2014b).

1.2 Scope of Work

The scope of work for the 2nd semi-annual groundwater sampling event, as specified in the approved work plan (INTERA, 2014a), included the following activities:

- Conduct project planning activities.
- Remove caps from all wells to relieve pressure caused by a fluctuating water table.
- Gauge depth to water and total depth at monitoring wells MW-4, MW-7, MW-8, MW-9, VP-2, and VP-5 using an oil-water interface probe.
- Collect groundwater samples from monitoring wells MW-4, MW-7, MW-8, MW-9, VP-2, and VP-5 and analyze the samples for volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (EPA) Method 8260B; 1,2-dibromoethane (EDB) by U.S. EPA Method 504.1; and dissolved iron, manganese, and lead by U.S. EPA Method 200.7.
- Prepare a report that summarizes all monitoring activities and the resulting data.

The Site-Specific Health and Safety Plan (SSHASP) was developed and reviewed by INTERA staff prior to the initiation of the project.

1.3 Work Plan Deviations

One work plan deviation occurred during this 2nd semi-annual groundwater monitoring event. Due to an obstruction noted in monitoring well MW-4 at 10.60 feet (ft) below top of casing (btoc); the

groundwater sample tubing could not be successfully deployed past this obstruction. The groundwater sample tubing was not set at the mid-point of the saturated screen interval which would be located at approximately 5 ft below the water table per the approved work plan, but rather at approximately 1.5 ft below the water table. Even though the groundwater sample collected at monitoring well MW-4 was not collected at the mid-point of the saturated screen interval it is still considered representative of aquifer conditions at this monitoring location.

1.4 Project Preparation

Upon receipt of authorization to proceed from the NMED PSTB, INTERA performed the following tasks prior to commencing the 2nd semi-annual field activities:

- Contacted the NMED PSTB project manager, Ms. Dawn Bascomb, 96 hours prior to the commencement of planned on-site activities.
- Contacted the current Site owner, Roberts Oil, prior to arriving on Site (see the Access Agreement in **Appendix A**).
- Obtained required field supplies and tested required field equipment.
- Obtained sample containers from Hall Environmental Analysis Laboratory (HEAL).

2.0 FIELD ACTIVITIES

Field activities for this 2nd semi-annual groundwater monitoring event were conducted on May 19, 2015. The SSHASP was reviewed in detail by INTERA field staff and was strictly followed during all Site activities. Work was performed in Occupational Safety and Health Administration Level D personal protective equipment (PPE). A copy of the field notes is included in **Appendix B.**

2.1 Fluid Level Gauging

Fluid levels were gauged in monitoring wells MW-4, MW-7, MW-8, MW-9, VP-2, and VP-5 on May 19, 2015, using a properly decontaminated oil-water interface probe (**Figure 2**). Fluid level measurements are documented in **Table 1.** Historical fluid levels for monitoring wells not monitored during this event and for monitoring wells that were previously plugged and abandoned are included in **Appendix C.** A potentiometric surface map is provided in **Figure 3.**

2.2 Groundwater Sampling

On May 19, 2015, the following monitoring wells were sampled using low-flow sampling techniques: MW-4, MW-7, MW-8, MW-9, VP-2, and VP-5. Low-flow sampling was completed using a peristaltic pump and dedicated disposable polyethylene and silicone tubing. The tubing intake was lowered into the monitoring well and placed at a depth consistent with the depth sampled during the previous sampling event. In accordance with low-flow sampling techniques, the flow rate was kept below 0.5 liter per minute (L/min), and groundwater levels were monitored to ensure that the drawdown did not exceed the recommended drawdown limit of 0.33 foot (ft). Groundwater pumped from each monitoring well was conveyed through a flow-through cell where temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured at regular intervals using a calibrated YSI 556 MPS water quality meter. Once water quality parameters stabilized for three consecutive readings, groundwater samples were conveyed directly from the peristaltic tubing (from the sampling port located immediately before the water quality meter intake) into laboratory-supplied sample bottles. A record of all water quality parameters recorded during purging and sampling of each monitoring well is documented in the field forms and field notes; a copy of each is presented in **Appendix B.** Initial and final/stabilized water quality parameter values recorded at each monitoring well prior to sample collection are summarized in **Table 2.**

The groundwater purged from all Site monitoring wells was observed to have a petroleum hydrocarbon odor.

Groundwater samples collected for analysis of VOCs were placed in 40-milliliter (mL) glass vials preserved with mercuric chloride ($HgCl_2$). The groundwater samples collected for analysis of EDB

were placed in 40-mL glass vials preserved with sodium thiosulfate ($Na_2S_2O_3$). Groundwater samples collected for analysis of dissolved iron, manganese, and lead were filtered through 0.45-micron filters prior to collection in sample bottles preserved with nitric acid (HNO_3). Care was taken while filtering the groundwater samples to ensure that there was no breakthrough of the groundwater sample through the filter material.

After collection, the groundwater samples were labeled and immediately packed in an ice-chilled cooler for transport to HEAL for analyses. Proper chain-of-custody procedures were adhered to during groundwater sample collection, transport, and delivery to the laboratory. Laboratory analytical results are summarized in **Table 3,** and the groundwater laboratory analytical report is included in **Appendix D.** Historical groundwater laboratory analytical results for monitoring wells not monitored during this event and for monitoring wells that were previously plugged and abandoned are included in **Appendix C.**

2.3 Project Health and Safety, Quality Assurance, and Investigation-Derived Waste

The INTERA-prepares SSHASP was strictly followed during all Site activities. All field activities were conducted using modified Level D PPE, including safety glasses and steel-toed boots. Nitrile gloves were used to handle all groundwater samples. A safety meeting was conducted prior to the initiation of work, and chemical and physical hazards of the work were reviewed and discussed.

Quality assurance practices, which were strictly adhered to, included decontaminating the oil/water interface probe with a Liquinox® solution and double-rinsing with de-ionized water between gauging and groundwater sampling activities at each well.

Laboratory data was not qualified. No contamination was noted in the trip blank. Laboratory quality control sample analyses indicated that the data were within method accuracy and precision limits with one exception. The surrogate recovery for the matrix spike was outside the control limit and therefore qualified. This will not impact the reliability of the data as the surrogate recoveries for the primary groundwater samples were not qualified (Freeman, 2015).

Purge water produced from each monitoring well during groundwater sampling was applied to an impermeable surface (asphalt and/or concrete) and allowed to evaporate.

3.0 RESULTS

The results of the field activities conducted at the Site are summarized in the following subsections.

3.1 Fluid Level Gauging and Groundwater Flow Direction

Light non-aqueous phase liquid (LNAPL) of measurable thickness (greater than 0.01 ft) was not observed in any Site monitoring wells. Recorded depth to water measurements ranged from 7.82 ft below top of casing (btoc) at monitoring well MW-4 to 9.31 ft btoc at monitoring well MW-8. The potentiometric surface elevations (PSE) ranged from 4,935.03 ft above mean sea level (amsl) at monitoring well MW-7 to 4,935.58 ft amsl at monitoring well VP-5 (**Table 1**). When compared to the previous groundwater monitoring event conducted in December 2014, groundwater levels have increased on average 0.20 ft.

The groundwater elevation surface across the Site is relatively flat. The estimated groundwater flow direction is to the south-southeast and the estimated magnitude of the calculated hydraulic gradient is 0.002 ft/ft (**Figure 3**). Due to the lower PSE at monitoring well MW-8 compared to adjacent monitoring wells this well was not used during the contouring of the potentiometric surface.

3.2 Groundwater Quality Parameters

Groundwater quality parameters were measured and recorded during monitoring well purging until the water quality parameters stabilized. Stabilized temperatures ranged from 15.11 degrees Celsius (°C) or 59.20 degrees Fahrenheit (°F) at monitoring well MW-8 to 17.49°C or 63.48°F at monitoring well VP-5. Stabilized specific conductivity values ranged from 333 microSiemens per centimeter (µS/cm) at monitoring well MW-7 to 688 µS/cm at monitoring well VP-5. Stabilized pH values ranged from 7.31 at monitoring well VP-2 to 7.86 at monitoring well MW-7. Stabilized DO concentrations ranged from 0.00 milligrams per liter (mg/L) at monitoring well VP-5 to 4.88 mg/L at monitoring well MW-8. Stabilized ORP values ranged from -257.8 millivolts (mV) at monitoring well VP-5 to -91.0 mV at monitoring well MW-4. Groundwater quality parameter values are provided in the field notes and sampling forms presented in **Appendix B,** and the initial and final/stabilized groundwater quality parameters are summarized in **Table 2.**

3.3 Groundwater Analytical Results

Groundwater samples collected from monitoring wells MW-4, MW-8, MW-9, and VP-5 had VOCs detected in groundwater at concentrations above the laboratory reporting limit (RL); of these four samples, three had VOCs detected at concentrations that exceed the NMWQCC Standards (**Table 3** and **Figure 4**).

Concentrations of total naphthalenes (sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) greater than the NMWQCC Standard of 30 micrograms per liter (µg/L) were detected in groundwater samples collected from monitoring well MW-8 (82 µg/L) and monitoring well VP-5 (200 µg/L). Total naphthalenes concentrations and groundwater elevations over time for the Site monitoring wells are presented in **Figures 5a, 6a, 7a, 8a, 9a,** and **10a**.

Benzene was detected at monitoring well MW-9 at a concentration of 21 µg/L; this concentration exceeds the NMWQCC Standard of 10 µg/L. **Figures 5b, 6b, 7b, 8b, 9b,** and **10b** illustrate benzene concentrations and groundwater elevations over time for the Site monitoring wells. All other detected VOC concentrations were below their respective NMWQCC Standards.

Dissolved manganese was detected in groundwater at concentrations that exceed the NMWQCC Standard of 0.2 mg/L in five of the six monitoring wells sampled: MW-4 (0.74 mg/L), MW-7 (0.61 mg/L), MW-8 (0.28 mg/L), MW-9 (0.70 mg/L), and VP-2 (0.46 mg/L).

Dissolved iron was detected in the groundwater sample collected from monitoring well VP-5 at 1.2 mg/L, which exceeds the NMWQCC Standard of 1.0 mg/L. Dissolved iron was detected in five of the six monitoring wells sampled below the NMWQCC Standard of 1.0 mg/L: MW-4 (0.71 mg/L), MW-7 (0.29 mg/L), MW-8 (0.073 mg/L), MW-9 (0.22 mg/L), and VP-2 (0.070 mg/L).

Dissolved lead was detected in only one of the six groundwater samples collected above the dissolved lead laboratory RL. Dissolved lead was detected at monitoring well VP-5 at a concentration of 0.0061 mg/L below the NMWQCC Standard of 0.05 mg/L.

A summary of the analytical data, including which monitoring wells contained contaminants of concern in excess of the NMWQCC Standards, is presented in **Table 3** and **Figure 4.** A copy of the laboratory report is included in **Appendix D.**

4.0 CONCLUSIONS AND RECOMMENDATIONS

The objectives of INTERA's 2nd semi-annual groundwater monitoring event are to provide (1) an evaluation of groundwater flow direction, (2) an assessment of dissolved contaminant concentration trends relative to NMWQCC Standards, and (3) an evaluation of natural attenuation in the groundwater plume source area. Based on the results of the field investigation, INTERA has compiled the following conclusions and recommendations.

4.1 Conclusions

- LNAPL was not observed at any of the Site monitoring wells.
- The water levels at each monitoring well increased compared to the water levels measured during the previous groundwater monitoring event conducted in December 2014. On average, the water level increase was 0.20 ft.
- The potentiometric surface is relatively flat across the Site. The estimated groundwater flow is to the south-southeast and the estimated magnitude of the calculated hydraulic gradient is 0.002 ft/ft.
- Total naphthalenes were detected in groundwater at concentrations above the NMWQCC Standard in monitoring wells MW-8 and VP-5 (**Table 3** and **Figures 7a and 10a**).
- The benzene concentration detected in monitoring well MW-9 was above the NMWQCC Standard (**Figure 8b** and **Table 3**). Monitoring well MW-9 has seen dynamic fluctuations in benzene concentration during historical Site groundwater monitoring events. Benzene was detected below the NMWQCC Standard during the previous monitoring event (December 2014).
- The areal extent of the dissolved-phase contaminant plume is defined except to the northwest.
- Dissolved iron (VP-5) and manganese (MW-4, MW-7, MW-8, MW-9, and VP-2) continue to be detected at monitoring wells at concentrations that exceed the NMWQCC Standards (**Table 3** and **Figure 4**). These exceedances correspond to monitoring wells where VOCs are currently or have been historically detected in groundwater.
- A common method used to assess biodegradation at contaminated sites is to measure decreases in concentrations of terminal electron acceptors or increases in concentrations of biodegradation byproducts. The soluble species of iron and manganese are byproducts of anaerobic biodegradation. The presence of elevated dissolved iron and manganese concentrations at locations with observed decreasing petroleum hydrocarbon concentrations are evidence that biodegradation of petroleum hydrocarbons is occurring at the Site. Biodegradation, in addition to other natural attenuation processes, has been an

effective method for the reduction of petroleum hydrocarbons at the Site (EPA, 1999; ITRC, 2009).

4.2 Recommendations

Based on the results of the May 19, 2015, groundwater monitoring event, INTERA makes the following recommendations:

- Continue groundwater monitoring at the Site on a semi-annual basis to assess groundwater quality and dissolved contaminant trends. Analytical results of the current sampling event indicate that dissolved-phase petroleum hydrocarbons, particularly total naphthalenes and benzene, as well as dissolved iron and manganese, continue to be a concern at the Site.
- Confirm the actual screen interval at monitoring wells VP-2 and VP-5 to verify that these monitoring wells are screened across the water table. INTERA recommends reviewing the AS/SVE remediation system as-builts and other pertinent reports to see if the screened interval for these monitoring wells is identified in these reports. If a file review cannot verify that these monitoring wells are screened across the water table, INTERA recommends video logging these wells to identify the screen intervals.
- Remove the root ball obstruction at monitoring well MW-4 to maintain the integrity of this monitoring well and prevent further damage.
- Evaluate the need to install a monitoring well northwest of monitoring well VP-5 to aid in delineating the dissolved-phase total naphthalenes plume.

5.0 REFERENCES

Freeman, Andy, 2015. Hall Environmental Analysis Laboratory. Personal communication. June 17.

Groundwater Technology (GT). 1992. *Reclamation Proposal Barelas Bridge GWPA Site, 800 Bridge Blvd., SW, Albuquerque, New Mexico.* December 4.

INTERA Incorporated. 2014a. Work Plan and Cost Estimate for Semi-Annual Groundwater Monitoring, Barelas Bridge, Facility # 29854; Release ID # 54. August 22.

INTERA Incorporated. 2014b. 1st Semi-Annual Groundwater Monitoring Report, Barelas Bridge Site, Facility # 29854; Release ID # 54. December 23.

Interstate Technology Regulatory Council (ITRC). 2009. *Evaluating Natural Source Zone Depletion at Sites with LNAPL*. LNAPL-1. Washington, D.C.: Interstate Technology & Regulatory Council, LNAPLs Team. www.itrcweb.org.

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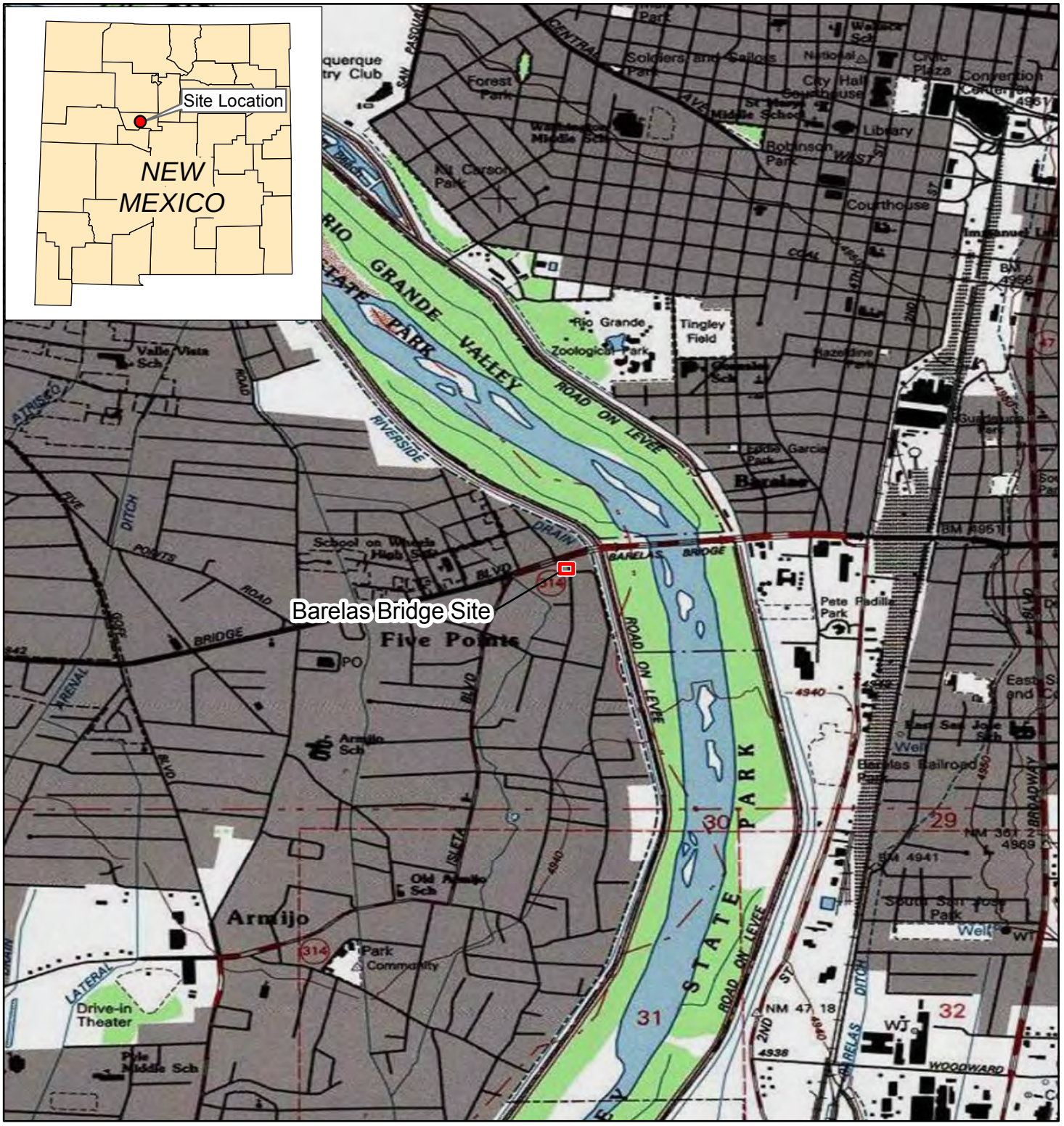
U.S. Environmental Protection Agency (EPA). 1999. *Monitored Natural Attenuation of Petroleum Hydrocarbons.* Office of Research and Development. Washington D.C. May.

FIGURES



Sources:
Topo – USA Topo Maps, ESRI web data

Figure 1
Site Location
2nd Semi-Annual Groundwater Monitoring Event, May 2015,
Barelas Bridge
Albuquerque, New Mexico

S:\Projects\NMENV_M002_PSTB\Barelas_Bridge\Graphics\GIS\MapDocs\2nd_SA_GW_Report\01_SiteLocMap_BarelasBridge.mxd 6/9/2015

Source(s): Aerial – BERNCO website, dated 2014;
Well locations – Groundwater Technology, 1992 and Kleinfelder, 2006;
Site features – Leggette, Brashears & Graham Inc., 1990

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Figure 2
Site Plan
2nd Semi-Annual Groundwater Monitoring Event, May 2015,
Barelas Bridge
Albuquerque, New Mexico

FILE: S:\Projects\NMENV_M002_PSTB\Barelas_Bridge\Graphics\GIS\MapDocs\2nd_SA_GW_Report\02_SitePlan_BarelasBridge.mxd Date: 6/9/2015

Legend

- Monitoring Well Location
- Former Site Feature
- Groundwater Elevation Contour (ft amsl)
- Estimated Groundwater Flow Direction

N

40 20 0 40

Feet

* = MW-08 was not used in groundwater contouring.

Source(s): Aerial – BERNCO website, dated 2014;
Well locations – Groundwater Technology, 1992 and Kleinfelder, 2006;
Site features – Leggette, Brashears & Graham Inc., 1990

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Figure 3
Potentiometric Surface Map, May 19, 2015
2nd Semi-Annual Groundwater Monitoring Event, May 2015, Barelas Bridge
Albuquerque, New Mexico

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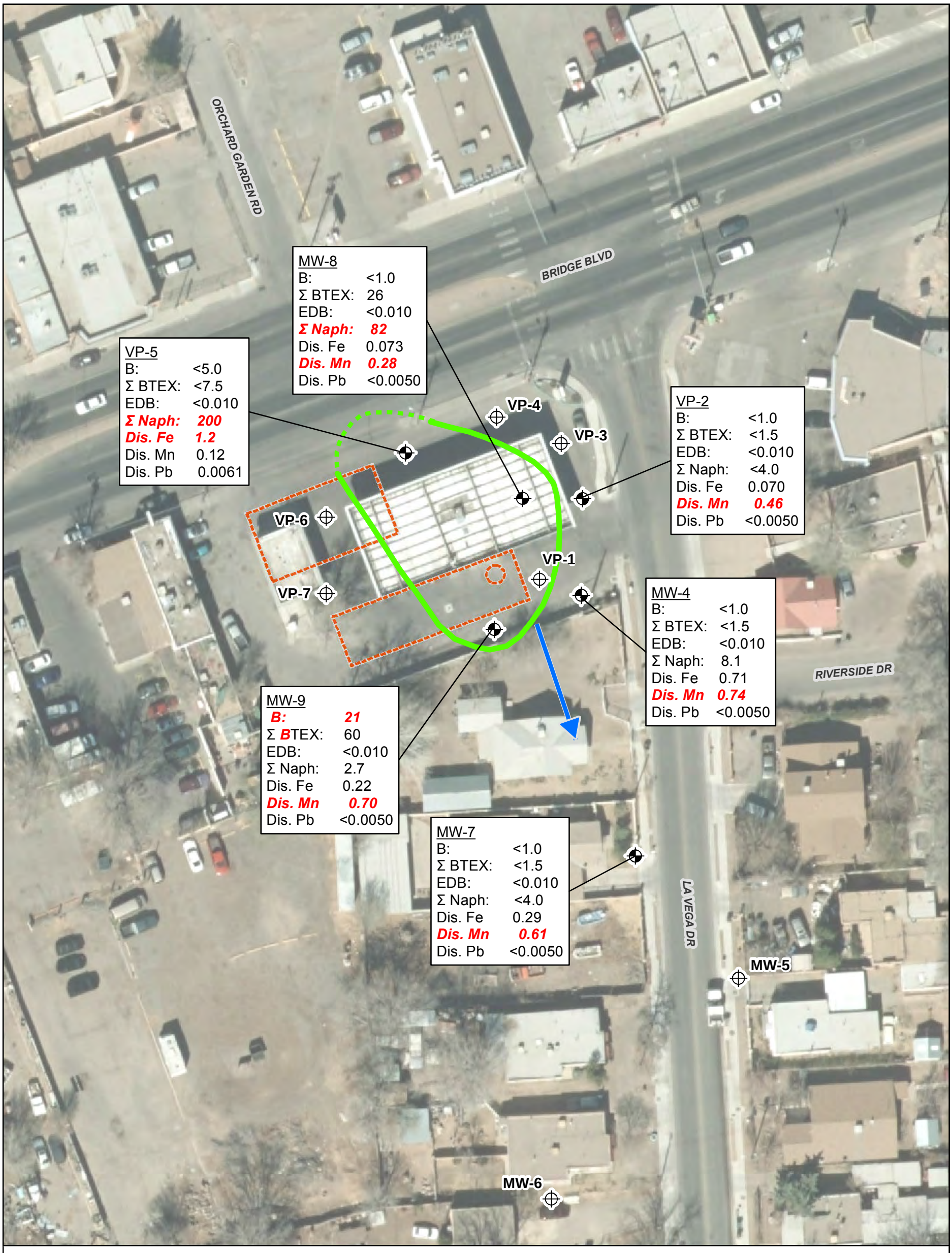

Legend

- Monitoring Well Location
- Plugged and Abandoned or Not Located
- Estimated Extent of Actionable Dissolved-Phase Contamination (dashed where inferred)
- Estimated Groundwater Flow Direction
- Former Site Feature

B = Benzene
Σ BTEX = Benzene + Toluene + Ethylbenzene + Total Xylenes
EDB = 1,2-dibromoethane
Σ Naph = Naphthalene + 1,Methyl naphthalene + 2, Methyl naphthalene
Dis. Fe = Dissolved Iron
Dis. Mn = Dissolved Manganese
Dis. Pb = Dissolved Lead

N

50 25 0 50

Feet

Well ID
VOC contaminant results in µg/L (micrograms per liter),
Dissolved Fe, dissolved Mn, and dissolved Pb in mg/L (milligrams per liter).
Red/Bold/Italic indicates value or laboratory reporting limit in excess of the NMWQCC standards.

Source(s): Aerial – BERNCO website, dated 2014;
Well locations – Groundwater Technology, 1992 and Kleinfelder, 2006;
Site features – Leggette, Brashears & Graham Inc., 1990

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Figure 4
Distribution of Contaminants in Groundwater, May 19, 2015
2nd Semi-Annual Groundwater Monitoring Event, May 2015,
Barelas Bridge
Albuquerque, New Mexico

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Figure 5a: Total Naphthalenes Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-4

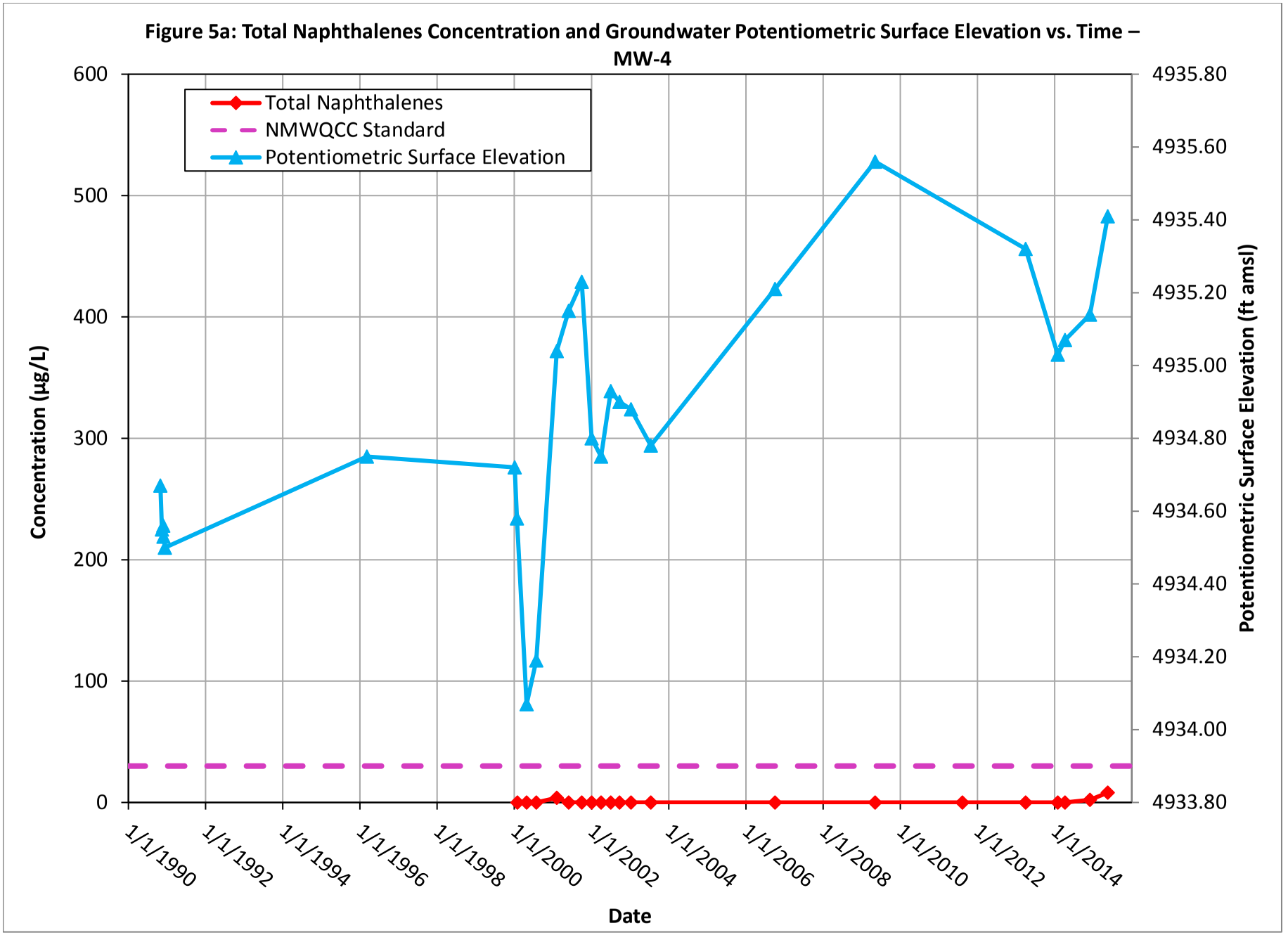

Figure 5b: Benzene Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-4

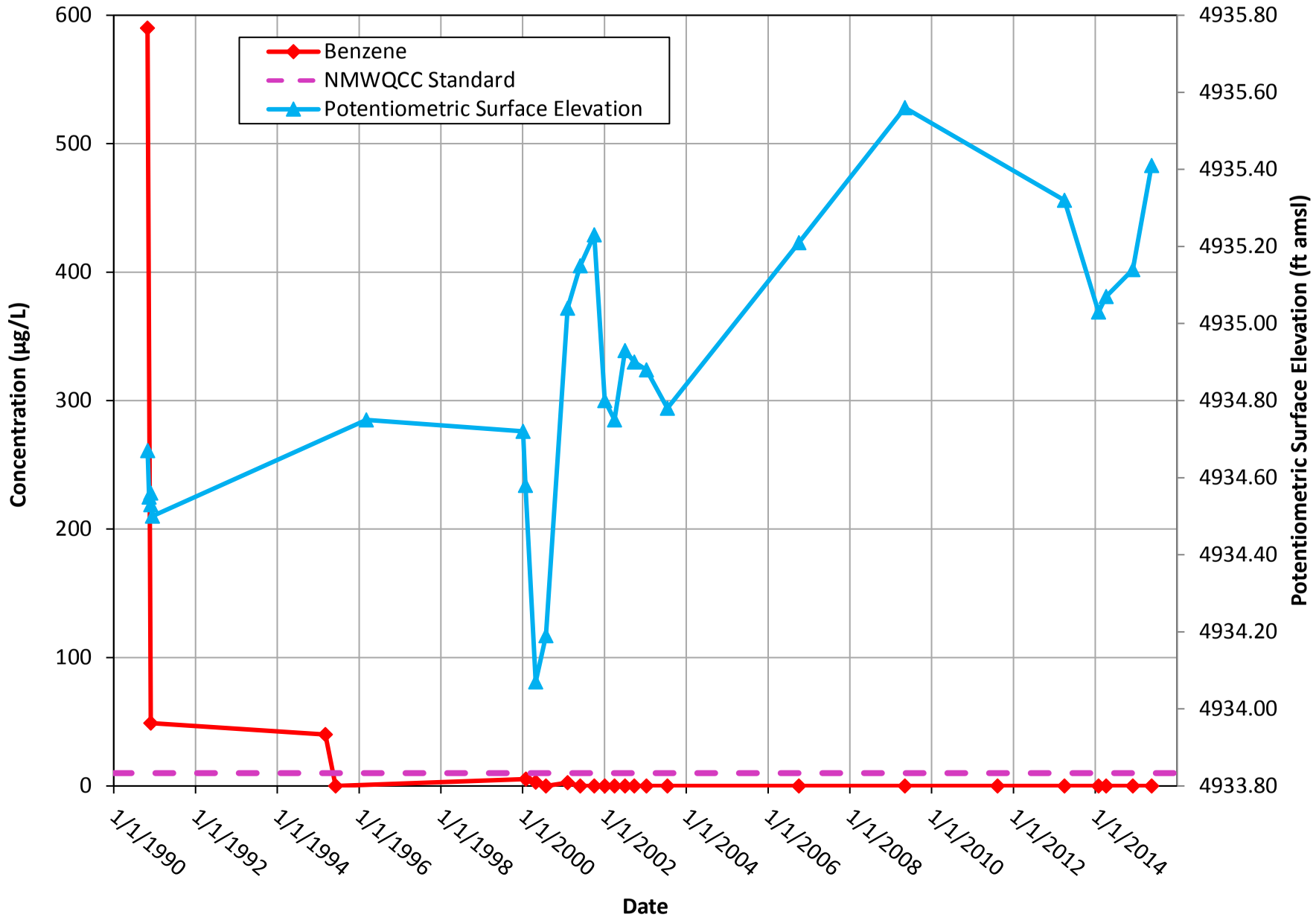

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Figure 6a: Total Naphthalenes Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-7

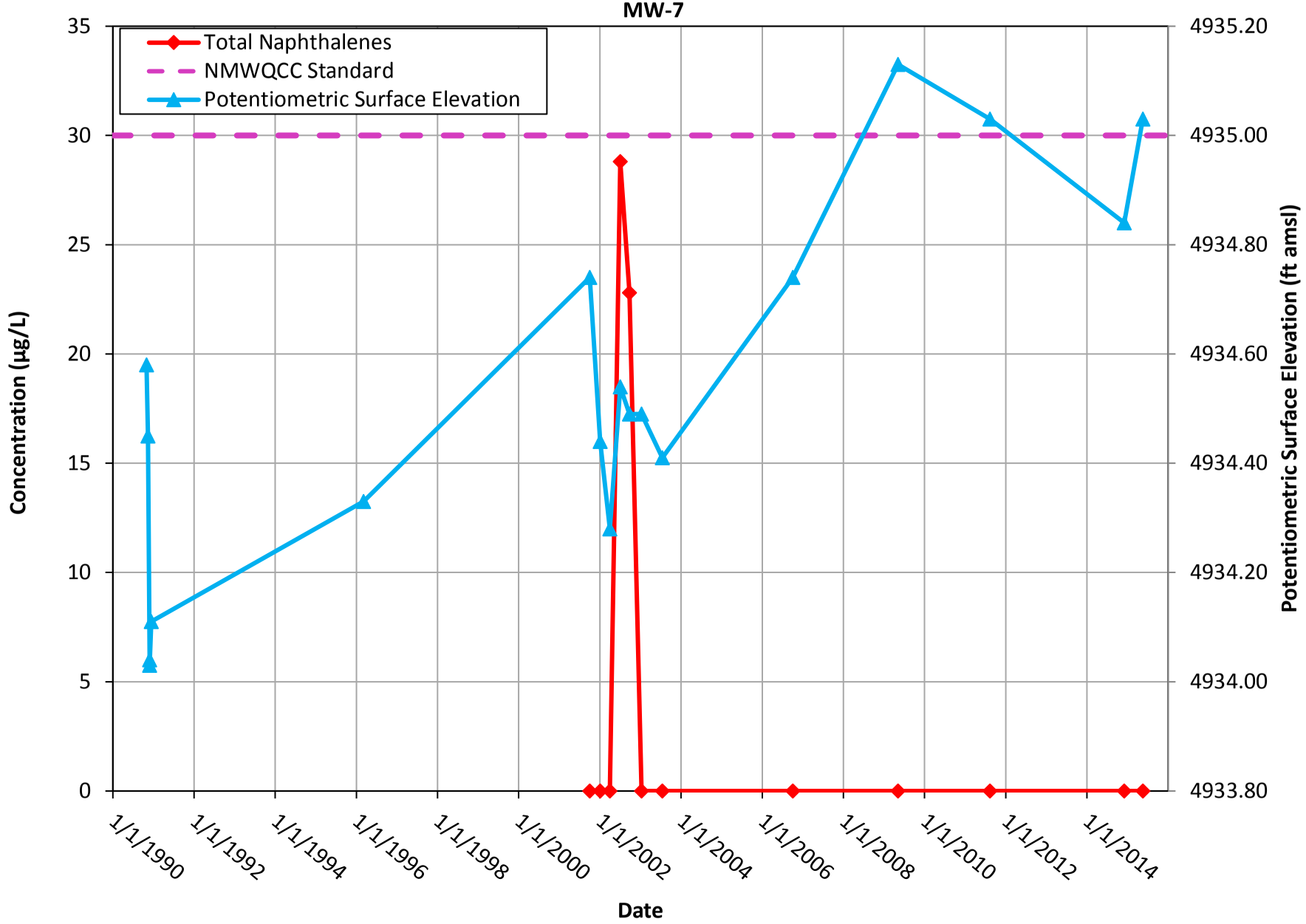

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Figure 6b: Benzene Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-7

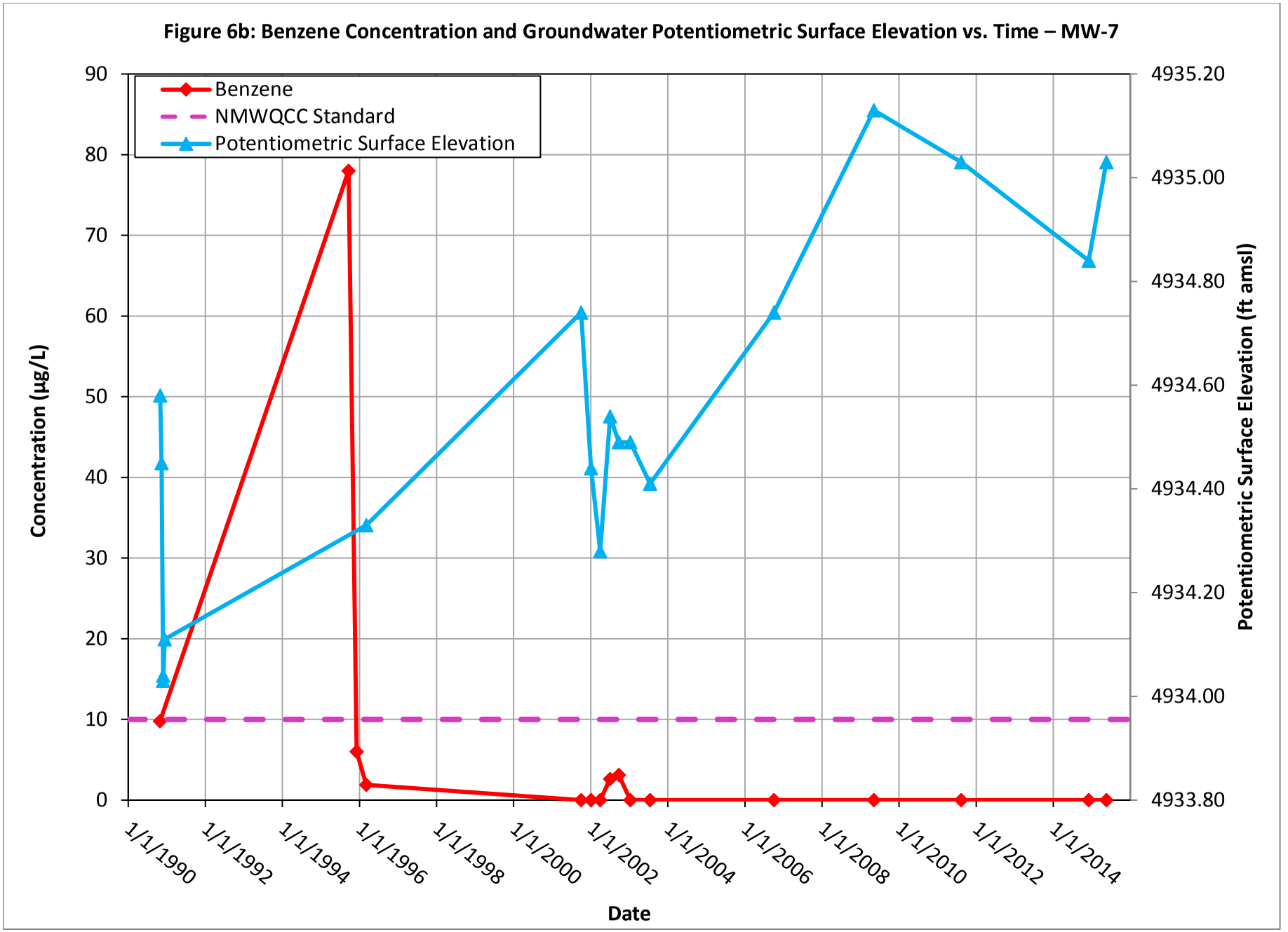

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Figure 7a: Total Naphthalenes Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-8

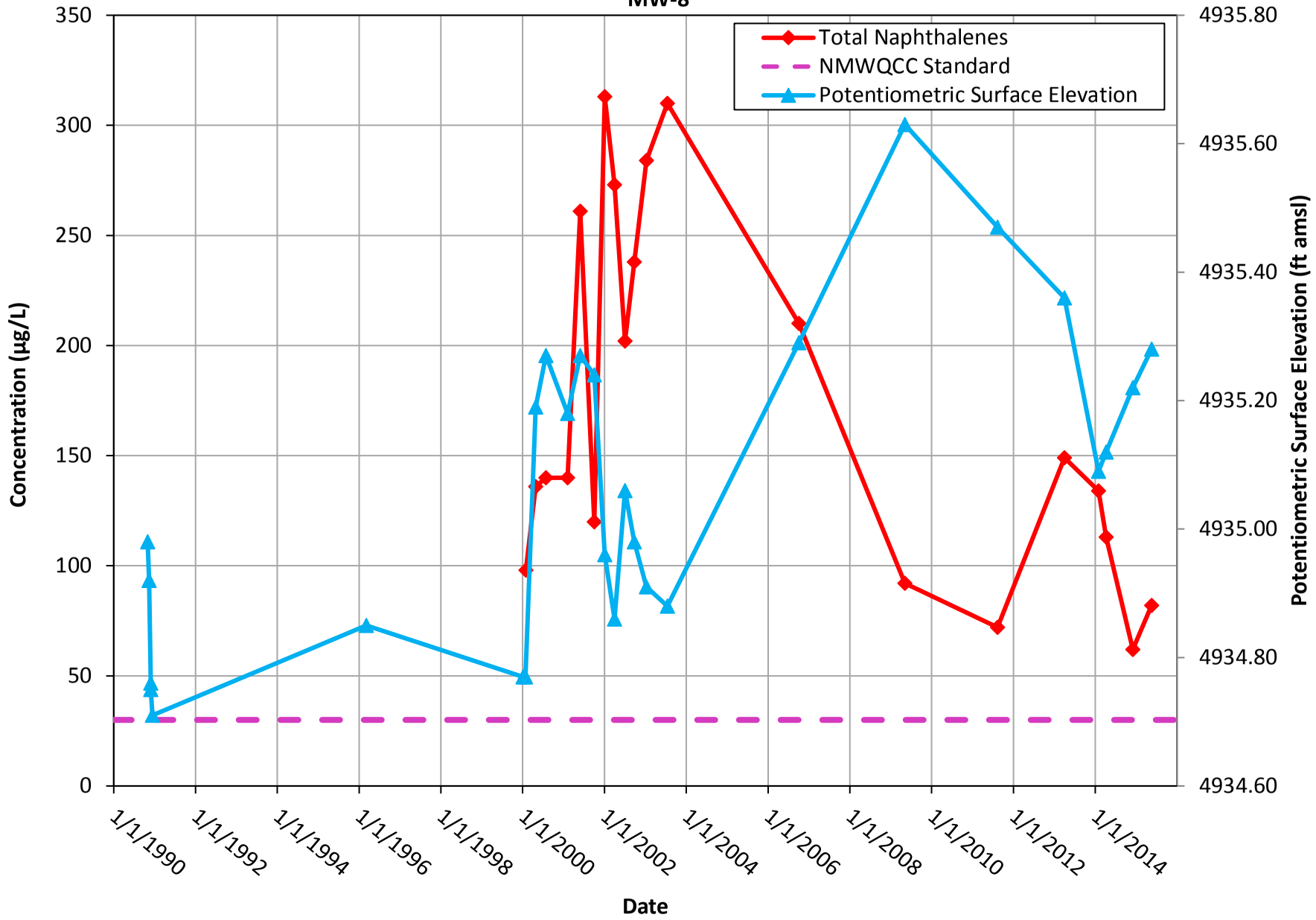

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Figure 7b: Benzene Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-8

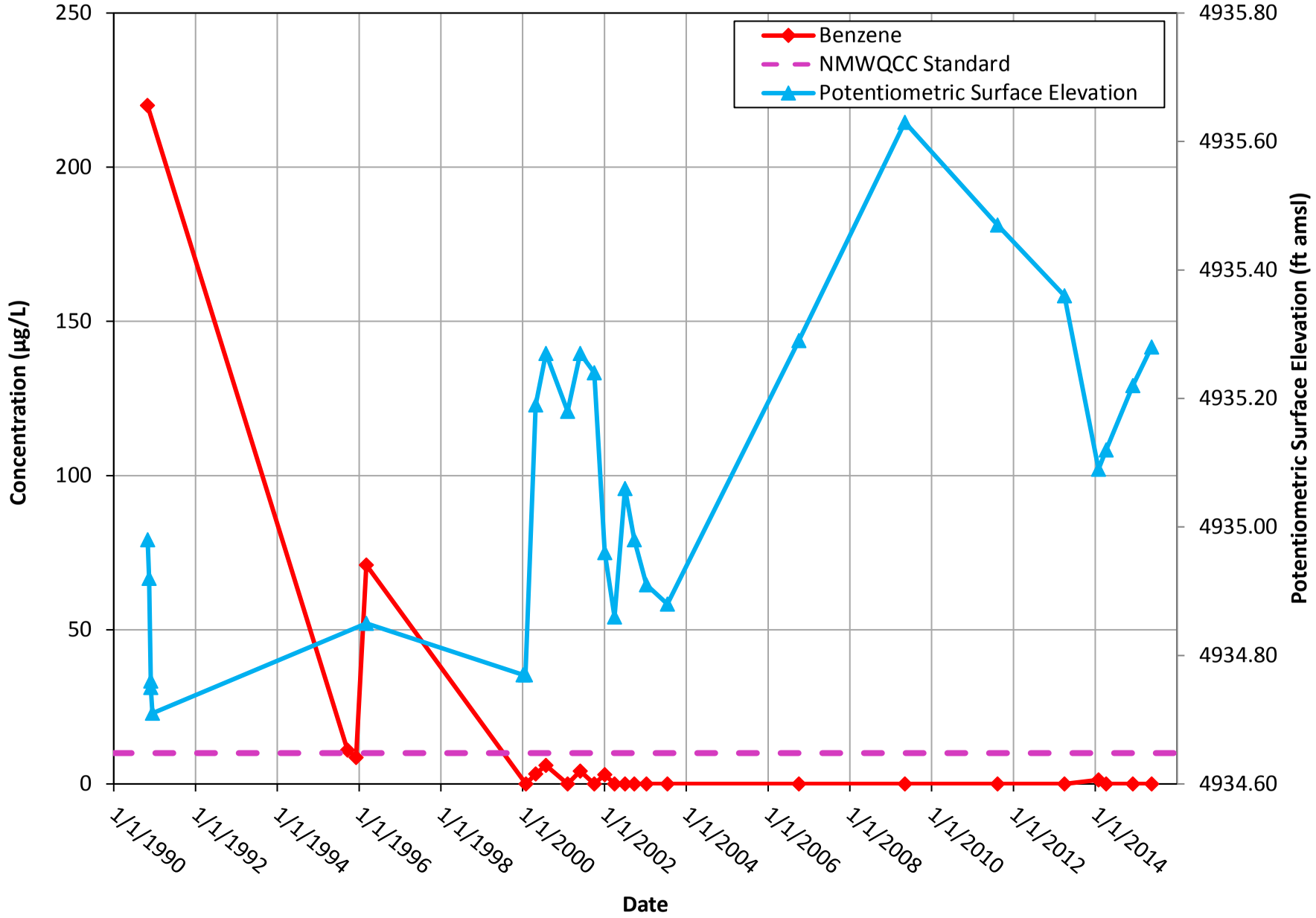

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Figure 8a: Total Naphthalenes Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-9

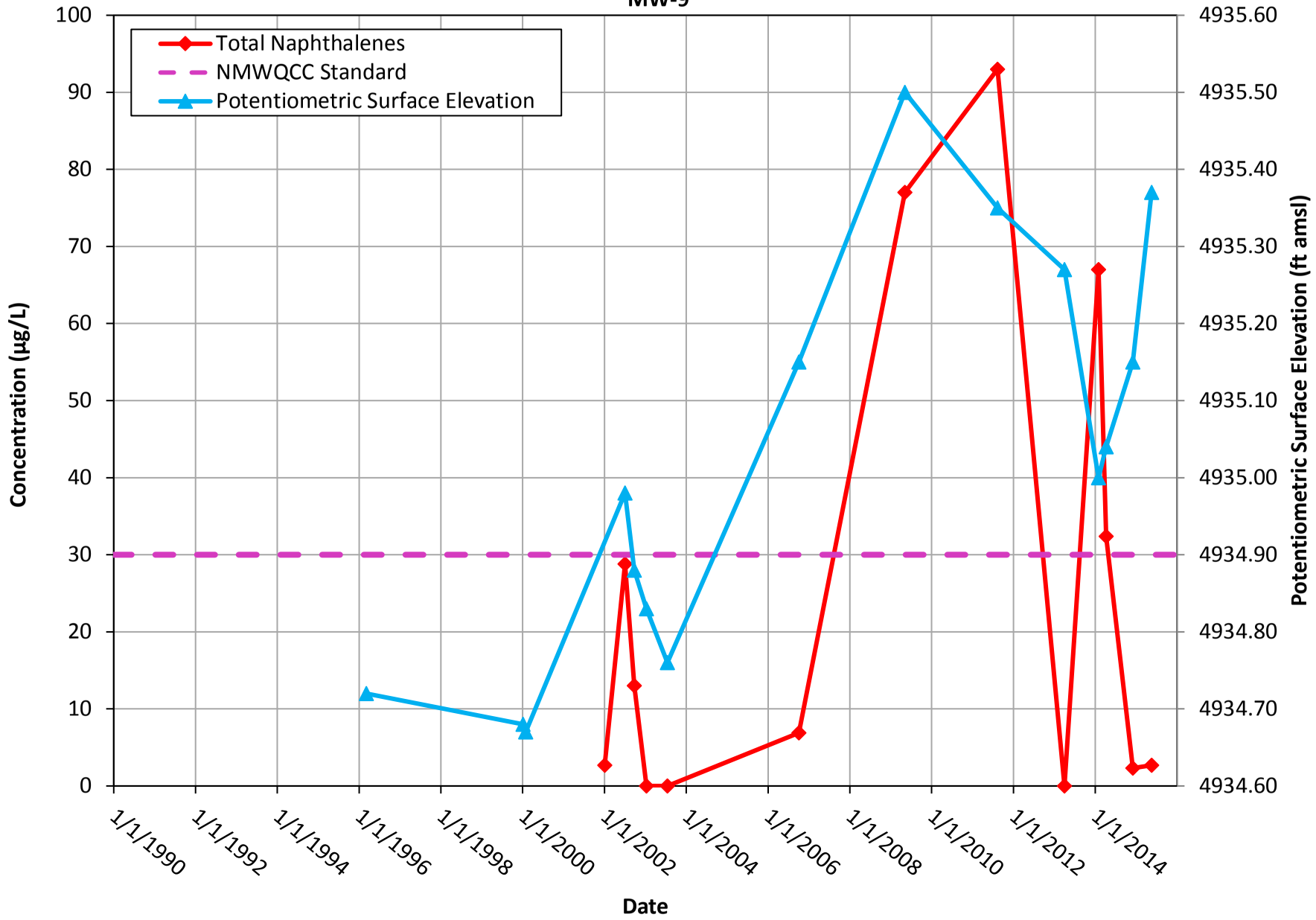

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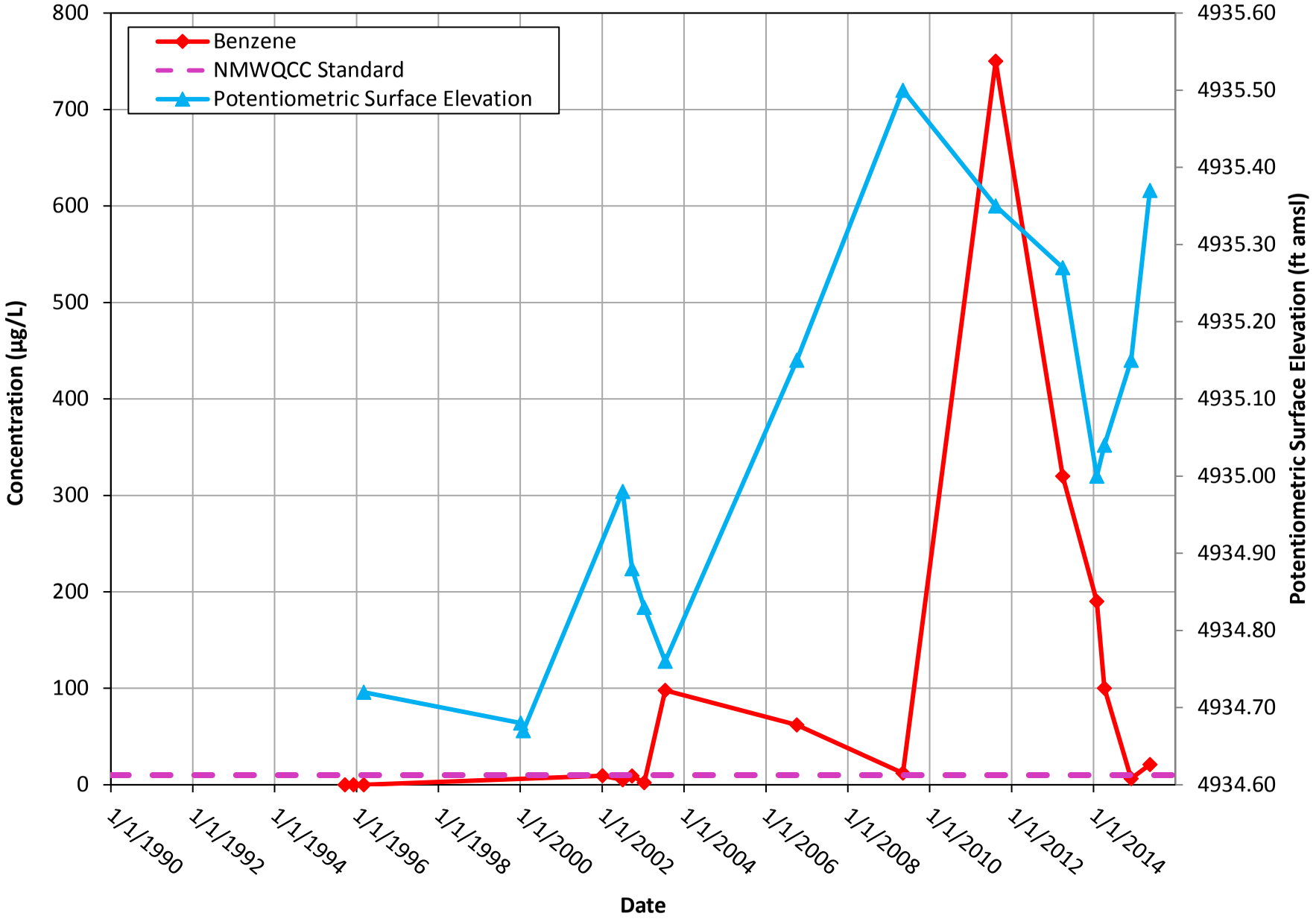
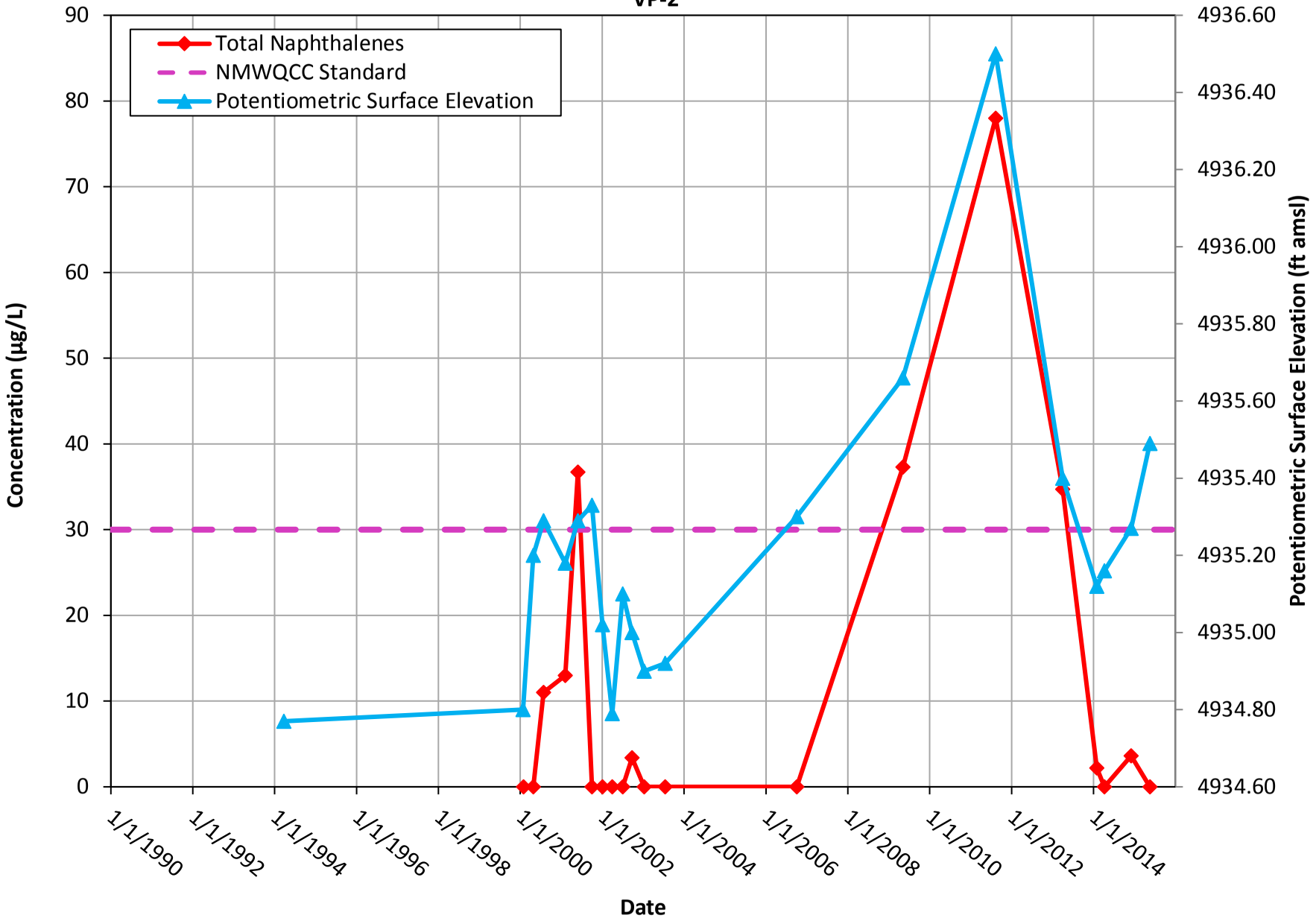
Figure 8b: Benzene Concentration and Groundwater Potentiometric Surface Elevation vs. Time – MW-9



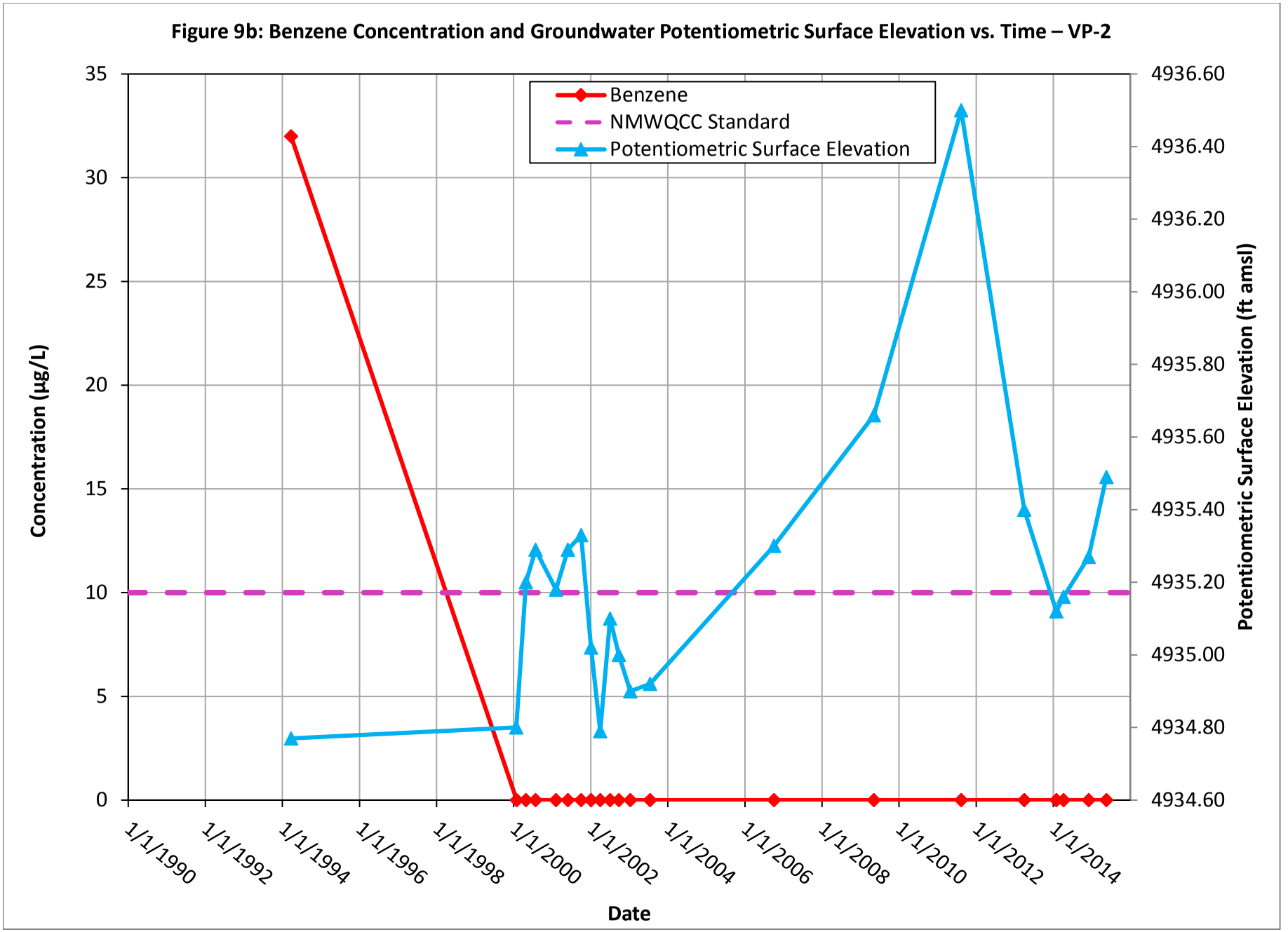
INTERA

Figure 9a: Total Naphthalenes Concentration and Groundwater Potentiometric Surface Elevation vs. Time – VP-2



INTERA

Figure 9b: Benzene Concentration and Groundwater Potentiometric Surface Elevation vs. Time – VP-2



INTERA

Figure 10a: Total Naphthalenes Concentration and Groundwater Potentiometric Surface Elevation vs. Time – VP-5

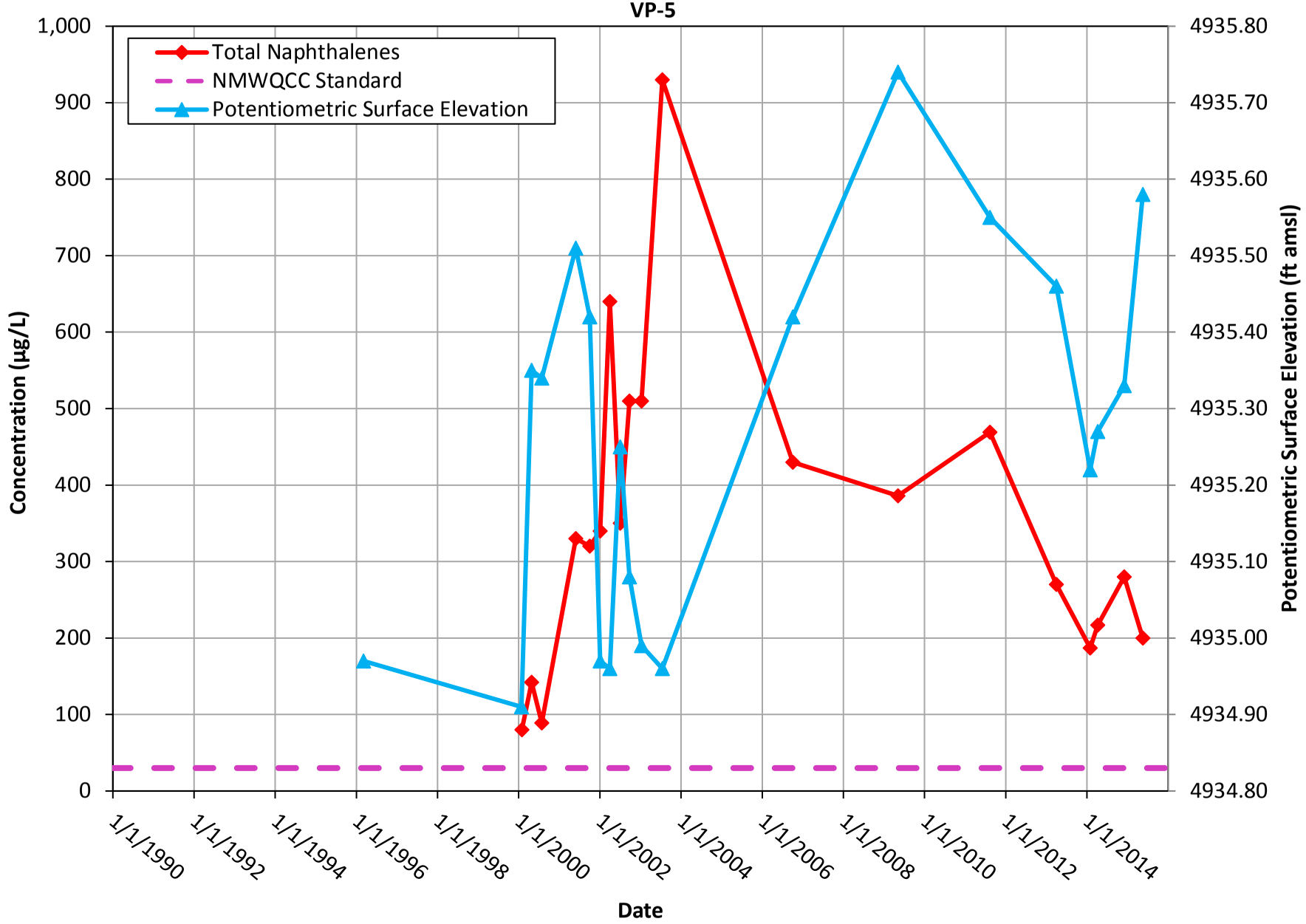
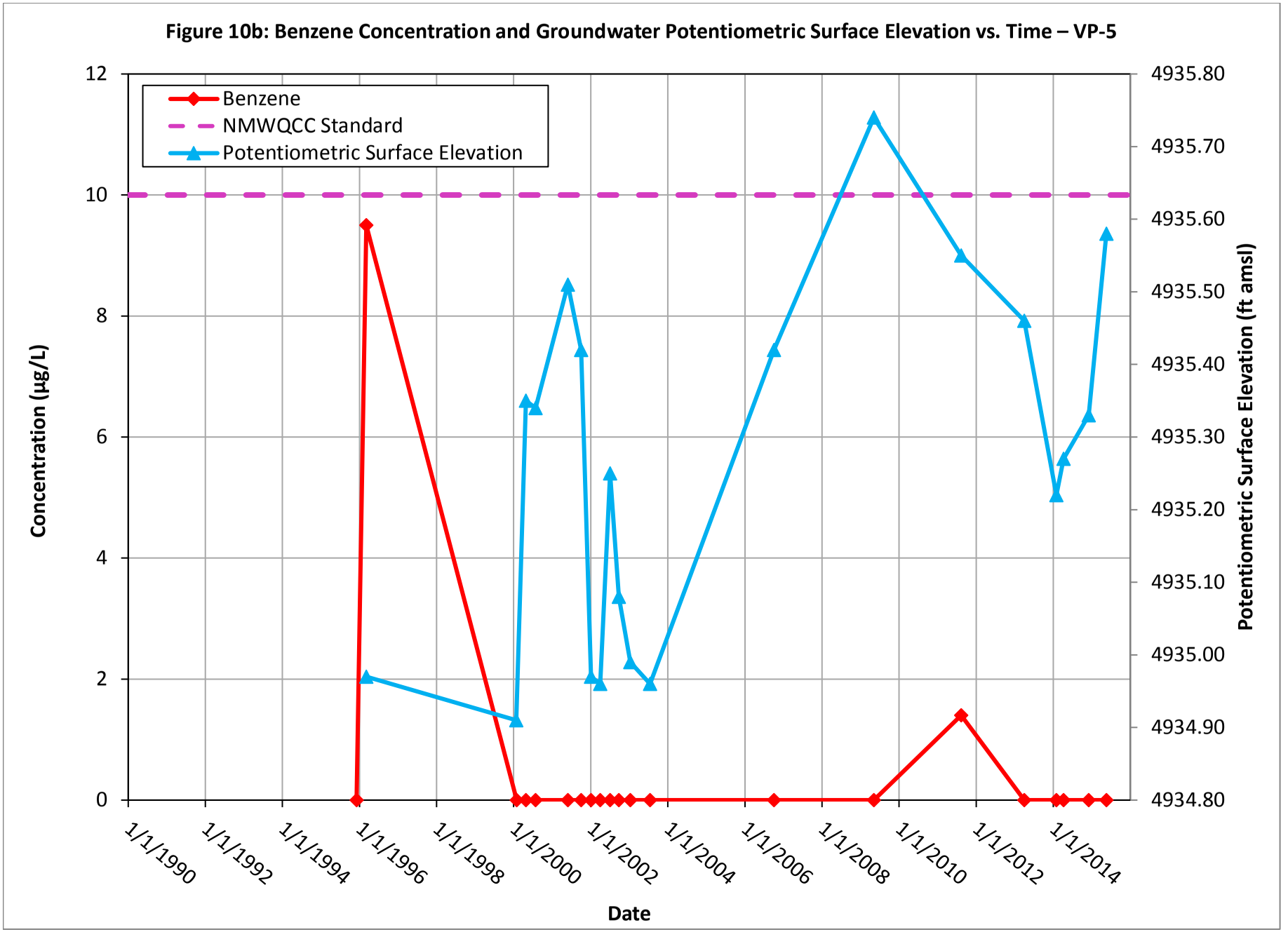


Figure 10b: Benzene Concentration and Groundwater Potentiometric Surface Elevation vs. Time – VP-5



INTERA

TABLES

TABLE 1
Fluid Level Measurements
2nd Semi-Annual Groundwater Monitoring Report
Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Well ID	Date	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Potentiometric Surface Elevation (ft amsl)[1]
MW-4	2/8/1990	3.5-18.5	4943.86	---	23.5	---
	10/31/1990	3.5-18.5	4943.86	---	---	4934.67
	11/14/1990	3.5-18.5	4943.86	---	---	4934.55
	11/28/1990	3.5-18.5	4943.86	---	---	4934.56
	11/29/1990	3.5-18.5	4943.86	---	---	4934.53
	12/12/1990	3.5-18.5	4943.86	---	---	4934.50
	12/4/1992	3.5-18.5	4943.23	---	23.5	---
	3/7/1996	3.5-18.5	4943.23	8.48	16.48	4934.75
	1/6/2000	3.5-18.5	4943.23	8.51	16.48	4934.72
	1/26/2000	3.5-18.5	4943.23	8.65	16.48	4934.58
	4/26/2000	3.5-18.5	4943.23	9.16	16.48	4934.07
	7/27/2000	3.5-18.5	4943.23	9.04	16.48	4934.19
	2/6/2001	3.5-18.5	4943.23	8.19	16.48	4935.04
	5/29/2001	3.5-18.5	4943.23	8.08	16.48	4935.15
	10/1/2001	3.5-18.5	4943.23	8.00	16.5	4935.23
	1/3/2002	3.5-18.5	4943.23	8.43	16.5	4934.80
	4/1/2002	3.5-18.5	4943.23	8.48	16.5	4934.75
	7/3/2002	3.5-18.5	4943.23	8.30	16.5	4934.93
	9/24/2002	3.5-18.5	4943.23	8.33	16.5	4934.90
	1/10/2003	3.5-18.5	4943.23	8.4	16.5	4934.88
	7/17/2003	3.5-18.5	4943.23	8.5	16.5	4934.78
	10/4/2006	3.5-18.5	4943.23	8.02	20.62	4935.21
	5/8/2009	3.5-18.5	4943.23	7.67	---	4935.56
	4/2/2013	3.5-18.5	4943.23	7.91	---	4935.32
	1/30/2014	3.5-18.5	4943.23	8.20	---	4935.03
	4/9/2014	3.5-18.5	4943.23	8.16	---	4935.07
	12/2/2014	3.5-18.5	4943.23	8.09	10.60*	4935.14
	5/19/2015	3.5-18.5	4943.23	7.82	10.60*	4935.41
MW-7	10/18/1990	7-22	4942.94	---	22	---
	10/31/1990	7-22	4942.94	---	---	4934.58
	11/14/1990	7-22	4942.94	---	---	4934.45
	11/28/1990	7-22	4942.94	---	---	4934.04
	11/29/1990	7-22	4942.94	---	---	4934.03
	12/12/1990	7-22	4942.94	---	---	4934.11
	3/7/1996	7-22	4942.94	8.61	21.45	4934.33
	10/2/2001	7-22	4942.94	8.20	21.45	4934.74
	1/3/2002	7-22	4942.94	8.50	21.45	4934.44
	4/1/2002	7-22	4942.94	8.66	21.45	4934.28
	7/3/2002	7-22	4942.94	8.40	21.45	4934.54
	9/24/2002	7-22	4942.94	8.45	21.45	4934.49
	1/10/2003	7-22	4942.94	8.45	21.45	4934.49

TABLE 1
Fluid Level Measurements
2nd Semi-Annual Groundwater Monitoring Report
Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Well ID	Date	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Potentiometric Surface Elevation (ft amsl)[1]
MW-7	7/17/2003	7-22	4942.94	8.53	21.45	4934.41
	10/4/2006	7-22	4942.94	8.20	21.60	4934.74
	5/8/2009	7-22	4942.94	7.81	21.3	4935.13
	8/13/2011	7-22	4942.94	7.91	21.3	4935.03
	12/2/2014	7-22	4942.94	8.10	21.66	4934.84
	5/19/2015	7-22	4942.94	7.91	21.66	4935.03
MW-8	10/18/1990	8-13	4944.57	---	13	---
	10/31/1990	8-13	4944.57	---	---	4934.98
	11/14/1990	8-13	4944.57	---	---	4934.92
	11/28/1990	8-13	4944.57	---	---	4934.76
	11/29/1990	8-13	4944.57	---	---	4934.75
	12/12/1990	8-13	4944.57	---	---	4934.71
	3/7/1996	8-13	4944.59	9.74	13.16	4934.85
	1/6/2000	8-13	4944.59	9.82	13.16	4934.77
	1/26/2000	8-13	4944.59	9.82	13.16	4934.77
	4/26/2000	8-13	4944.59	9.4	13.16	4935.19
	7/27/2000	8-13	4944.59	9.32	13.16	4935.27
	2/6/2001	8-13	4944.59	9.41	13.16	4935.18
	5/29/2001	8-13	4944.59	9.32	13.16	4935.27
	10/2/2001	8-13	4944.59	9.35	13.16	4935.24
	1/4/2002	8-13	4944.59	9.63	13.16	4934.96
	4/1/2002	8-13	4944.59	9.73	13.16	4934.86
	7/3/2002	8-13	4944.59	9.53	13.16	4935.06
	9/24/2002	8-13	4944.59	9.61	13.16	4934.98
	1/10/2003	8-13	4944.59	9.68	13.16	4934.91
	7/17/2003	8-13	4944.59	9.71	13.16	4934.88
	10/4/2006	8-13	4944.59	9.30	13.13	4935.29
	5/8/2009	8-13	4944.59	8.96	12.8	4935.63
	8/13/2011	8-13	4944.59	9.12	12.8	4935.47
	4/2/2013	8-13	4944.59	9.23	12.8	4935.36
	1/30/2014	8-13	4944.59	9.5	12.8	4935.09
	4/9/2014	8-13	4944.59	9.47	12.8	4935.12
	12/2/2014	8-13	4944.59	9.37	13.32	4935.22
	5/19/2015	8-13	4944.59	9.31	13.32	4935.28
MW-9	8/20/1992	5-20	4943.98	---	20.0	---
	3/7/1996	5-20	4943.98	9.26	19.43	4934.72
	1/6/2000	5-20	4943.98	9.30	19.43	4934.68
	1/28/2000	5-20	4943.98	9.31	19.43	4934.67
	7/3/2002	5-20	4943.98	9.00	19.43	4934.98
	9/24/2002	5-20	4943.98	9.10	19.43	4934.88
	1/10/2003	5-20	4943.98	9.15	19.43	4934.83
	7/17/2003	5-20	4943.98	9.22	19.43	4934.76

TABLE 1
Fluid Level Measurements
2nd Semi-Annual Groundwater Monitoring Report
Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Well ID	Date	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Potentiometric Surface Elevation (ft amsl)[1]
MW-9	10/4/2006	5-20	4943.98	8.83	19.41	4935.15
	5/8/2009	5-20	4943.98	8.48	19.20	4935.5
	8/13/2011	5-20	4943.98	8.63	19.20	4935.35
	4/2/2013	5-20	4943.98	8.71	19.20	4935.27
	1/30/2014	5-20	4943.98	8.98	19.20	4935
	4/9/2014	5-20	4943.98	8.94	19.20	4935.04
	12/2/2014	5-20	4943.98	8.83	19.28	4935.15
	5/19/2015	5-20	4943.98	8.61	19.28	4935.37
VP-2	3/24/1994	---	4943.73	8.96	NA	4934.77
	1/26/2000	---	4943.73	8.93	NA	4934.80
	4/26/2000	---	4943.73	8.53	NA	4935.20
	7/27/2000	---	4943.73	8.44	12.57	4935.29
	2/6/2001	---	4943.73	8.55	12.57	4935.18
	5/29/2001	---	4943.73	8.44	12.57	4935.29
	10/1/2001	---	4943.73	8.40	12.65	4935.33
	1/3/2002	---	4943.73	8.71	12.57	4935.02
	4/1/2002	---	4943.73	8.94	12.57	4934.79
	7/3/2002	---	4943.73	8.63	12.57	4935.10
	9/24/2002	---	4943.73	8.73	12.57	4935.00
	1/10/2003	---	4943.73	8.83	12.57	4934.90
	7/17/2003	---	4943.73	8.81	12.57	4934.92
	10/4/2006	---	4943.73	8.43	12.72	4935.30
	5/8/2009	---	4943.73	8.07	12.50	4935.66
	8/13/2011	---	4943.73	7.23	12.50	4936.5
	4/2/2013	---	4943.73	8.33	12.50	4935.4
	1/30/2014	---	4943.73	8.61	12.50	4935.12
	4/9/2014	---	4943.73	8.57	12.50	4935.16
	12/2/2014	---	4943.73	8.46	12.80	4935.27
	5/19/2015	---	4943.73	8.24	12.80	4935.49
VP-5	3/7/1996	---	4943.52	8.55	NA	4934.97
	1/26/2000	---	4943.52	8.61	NA	4934.91
	4/26/2000	---	4943.52	8.17	NA	4935.35
	7/27/2000	---	4943.52	8.18	12.17	4935.34
	5/29/2001	---	4943.52	8.01	12.17	4935.51
	10/2/2001	---	4943.52	8.10	12.05	4935.42
	1/3/2002	---	4943.52	8.55	12.17	4934.97
	4/1/2002	---	4943.52	8.56	12.17	4934.96
	7/3/2002	---	4943.52	8.27	12.17	4935.25
	9/24/2002	---	4943.52	8.44	12.17	4935.08
	1/10/2003	---	4943.52	8.53	12.17	4934.99
	7/17/2003	---	4943.52	8.56	12.17	4934.96
	10/4/2006	---	4943.52	8.10	12.12	4935.42

TABLE 1
Fluid Level Measurements
2nd Semi-Annual Groundwater Monitoring Report
Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Well ID	Date	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Total Depth (ft btoc)	Potentiometric Surface Elevation (ft amsl)[1]
VP-5	5/8/2009	---	4943.52	7.78	11.90	4935.74
	8/13/2011	---	4943.52	7.97	11.90	4935.55
	4/2/2013	---	4943.52	8.06	11.90	4935.46
	1/30/2014	---	4943.52	8.30	11.90	4935.22
	4/9/2014	---	4943.52	8.25	11.90	4935.27
	12/2/2014	---	4943.52	8.19	12.42	4935.33
	5/19/2015	---	4943.52	7.94	12.42	4935.58

Notes:

[1] = Value calculated from: Potentiometric Surface Elevation = Top of Casing Elevation - Depth to Water

amsl = above mean sea level

bgs = below ground surface

btoc = below top of casing

ft = feet

* Root ball obstruction in well

TABLE 2
Groundwater Quality Parameters
2nd Semi-Annual Groundwater Monitoring Report
Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Well ID	Date	Parameter Monitoring Time	DTW (ft btoc)	Temperature		Specific Conductivity (µS/cm)	pH	DO (mg/L)	ORP (mV)
				°C	°F				
MW-4	12/2/2014	Initial	8.09	17.10	62.78	429	7.62	35.09	-37.5
		Final	8.12	18.48	65.26	486	7.21	3.27	-141.2
	5/19/2015	Initial	7.82	17.51	63.52	373	7.47	0.35	-99.0
		Final	7.87	17.02	62.64	409	7.38	0.08	-91.0
MW-7	12/2/2014	Initial	8.11	17.39	63.30	435	7.54	6.56	-202.0
		Final	8.14	17.68	63.82	452	7.62	2.09	-174.4
	5/19/2015	Initial	7.95	18.26	64.87	350	7.84	3.82	-114.2
		Final	7.91	16.75	62.15	333	7.86	3.64	-115.9
MW-8	12/2/2014	Initial	9.37	18.35	65.03	534	7.71	10.24	-157.5
		Final	9.40	18.98	66.16	605	7.47	3.93	-262.3
	5/19/2015	Initial	9.31	15.61	60.10	376	7.62	5.32	-54.1
		Final	9.22	15.11	59.20	423	7.66	4.88	-178.9
MW-9	12/2/2014	Initial	8.83	17.91	64.24	439	7.42	8.72	-149.2
		Final	8.85	17.93	64.27	431	7.36	3.03	-230.4
	5/19/2015	Initial	8.60	16.95	62.51	425	6.97	0.24	-158.9
		Final	8.62	16.21	61.18	340	7.35	0.05	-199.3
VP-2	12/2/2014	Initial	8.48	18.73	65.71	508	2.71	6.32	199.3
		Final	8.55	18.96	66.13	509	5.99	2.35	-120.7
	5/19/2015	Initial	8.23	17.35	63.23	344	6.91	0.24	-14.3
		Final	8.30	16.94	62.49	347	7.31	0.06	-98.6
VP-5	12/2/2014	Initial	8.20	17.87	64.17	817	6.90	3.96	-130.2
		Final	8.29	18.31	64.96	735	7.23	3.52	-200.5
	5/19/2015	Initial	7.94	17.63	63.73	621	7.11	0.22	-137.4
		Final	8.02	17.49	63.48	688	7.36	0.00	-257.8

Notes:

°C = degrees Celsius
°F = degrees Fahrenheit
µS/cm = microSiemens per centimeter
btoc = below top of casing
DO = dissolved oxygen
DTW= Depth to water
ft = feet
mg/L = milligrams per liter
mV = millivolts
ORP = oxidation reduction potential

INTERA

TABLE 3
Laboratory Analytical Results - Groundwater
2nd Semi-Annual Groundwater Monitoring Report
Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Sample ID	Date	Organics[1]									Inorganics[5]		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	BTEX[2]	MTBE	EDB[3]	EDC	Total Naphthalenes[4]	Dissolved Iron	Dissolved Manganese	Dissolved Lead
		Concentration (µg/L)									Concentration (mg/L)		
NMWQCC Standard		10	750	750	620	NE	100*	0.1	10	30	1.0	0.2	0.05
MW-4	10/30/1990	**590**	35.3	518	**1,871**	3,015	-	-	-	-	-	-	-
	11/29/1990	**49**	1.0	8.4	14	72	-	-	-	-	-	-	-
	3/7/1995	**40**	1.0	54	<2.0	95.0	NA	NA	NA	NA	-	-	-
	6/6/1995	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA	NA	-	-	-
	1/30/2000	5.4	<1.0	<1.0	2.6	8.0	<1.0	**<1.0**	<1.0	<2.0	-	-	-
	4/26/2000	2.9	<1.0	<1.0	<1.0	2.9	<1.0	**<1.0**	<1.0	<2.0	-	-	-
	7/27/2000	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<2.0	-	-	-
	2/6/2001	2.5	<1.0	<1.0	1.5	4.0	<1.0	**<1.0**	<1.0	3.9	**1.19**	**1.76**	<0.005
	5/29/2001	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<6.0	0.17	**1.97**	<0.005
	10/1/2001	<1.0	<1.0	<1.0	<3.0	<6.0	<1.0	**<1.0**	<1.0	<15.0	-	-	-
	1/3/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	4/1/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	7/3/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	9/24/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	1/10/2003	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	7/17/2003	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	0.010	<1.0	<10	-	-	-
	10/4/2006	<1.0	<1.0	<1.0	<3.0	<3.0	<1.5	-	-	<10	-	-	-
	5/8/2009	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<10	-	-	-
	8/13/2011	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<4.0	-	-	-
	4/2/2013	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<4.0	-	-	-
	1/30/2014	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<4.0	-	-	-
	4/9/2014	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<4.0	-	-	-
	12/2/2014	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<0.010	<1.0	2.1	0.60	**0.78**	<0.0050
	5/19/2015	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<0.010	<1.0	8.1	0.71	**0.74**	<0.0050

TABLE 3
Laboratory Analytical Results - Groundwater
2nd Semi-Annual Groundwater Monitoring Report
Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Sample ID	Date	Organics[1]									Inorganics[5]		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	BTEX[2]	MTBE	EDB[3]	EDC	Total Naphthalenes[4]	Dissolved Iron	Dissolved Manganese	Dissolved Lead
		Concentration (µg/L)									Concentration (mg/L)		
NMWQCC Standard		10	750	750	620	NE	100*	0.1	10	30	1.0	0.2	0.05
MW-7	10/30/1990	9.8	3	20.8	4.9	38.5	-	-	-	-	-	-	-
	9/20/1995	**78**	2.1	9.9	8.7	98.7	NA	NA	NA	NA	-	-	-
	12/5/1995	6.0	1.2	2.2	<2.0	9.4	NA	NA	NA	NA	-	-	-
	3/7/1996	1.9	<1.0	<1.0	<2.0	1.9	NA	NA	NA	NA	-	-	-
	10/2/2001	<1.0	<1.0	<1.0	3.3	3.3	<1.0	**<1.0**	<1.0	<15	-	-	-
	1/3/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	4/1/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	7/3/2002	2.6	<1.0	<1.0	3.0	5.6	<1.0	**<1.0**	<1.0	28.8	-	-	-
	9/24/2002	3.1	<1.0	<1.0	1.7	4.8	<1.0	**<1.0**	<1.0	22.8	-	-	-
	1/10/2003	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	7/17/2003	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	0.010	<1.0	<10	-	-	-
	10/4/2006	<1.0	<1.0	<1.0	<3.0	<3.0	<1.5	-	-	<10	-	-	-
	5/8/2009	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<10	-	-	-
	8/13/2011	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<4.0	-	-	-
	12/2/2014	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<0.010	<1.0	<4.0	0.33	**0.69**	<0.0050
	5/19/2015	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<0.010	<1.0	<4.0	0.29	**0.61**	<0.0050
MW-8	10/30/1990	**220**	120	**960**	**1,140**	-	-	-	-	-	-	-	-
	9/20/1995	**11**	19	190	74	294.0	NA	NA	NA	NA	-	-	-
	12/5/1995	8.6	8.3	49	18	83.9	NA	NA	NA	NA	-	-	-
	3/7/1996	**71**	24	400	150	645.0	NA	NA	NA	NA	-	-	-
	1/30/2000	<10	<10	150.0	5.7	155.7	<10	**<10**	<10	**98**	-	-	-
	4/26/2000	3.2	2.2	<1.0	35	40.4	<1.0	**<1.0**	<1.0	**136**	-	-	-
	7/27/2000	6.0	5.2	150	61	222.2	<1.0	**<1.0**	<1.0	**140**	-	-	-

TABLE 3
Laboratory Analytical Results - Groundwater
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Barelas Bridge Site, Facility # 29854; Release ID # 54
Albuquerque, Bernalillo County, New Mexico

Sample ID	Date	Organics[1]									Inorganics[5]		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	BTEX[2]	MTBE	EDB[3]	EDC	Total Naphthalenes[4]	Dissolved Iron	Dissolved Manganese	Dissolved Lead
		Concentration (µg/L)									Concentration (mg/L)		
NMWQCC Standard		10	750	750	620	NE	100*	0.1	10	30	1.0	0.2	0.05
MW-8	2/6/2001	<10	<10	130	43	173	<10	**<10**	<10	**140**	0.68	**0.38**	<0.005
	5/29/2001	4.2	2.6	110	57	173.8	<2.0	**<2.0**	<2.0	**261**	**1.12**	**0.36**	<0.005
	10/2/2001	<10	<10	90	51	141	<10	**<10**	<10	**120**	-	-	-
	1/4/2002	3.0	3.2	35	50	91.2	<2.0	**<2.0**	<2.0	**313**	-	-	-
	4/1/2002	<5.0	<5.0	100	43	143	<5.0	**<5.0**	<5.0	**273**	-	-	-
	7/3/2002	<5.0	<5.0	86	40	126	<5.0	**<5.0**	<5.0	**202**	-	-	-
	9/24/2002	<5.0	<5.0	58	29	87	<5.0	**<5.0**	<5.0	**238**	-	-	-
	1/10/2003	<2.0	<2.0	57	38	95	<2.0	**<2.0**	<2.0	**284**	-	-	-
	7/17/2003	<5.0	<5.0	66	38	104	<5.0	0.010	<5.0	**310**	-	-	-
	10/4/2006	<2.0	<2.0	34	18	52	<3.0	-	-	**210**	-	-	-
	5/8/2009	<1.0	<1.0	24	8.0	32	<1.0	-	-	**92**	-	-	-
	8/13/2011	<10	<10	32	<15	32	<10	-	-	**72**	-	-	-
	4/2/2013	<5.0	<5.0	31	10	41	<5.0	-	-	**149**	-	-	-
	1/30/2014	1.3	1.4	33	8.2	44	<1.0	-	-	**134**	-	-	-
	4/9/2014	<1.0	1.2	32	7.3	41	<1.0	-	-	**113**	-	-	-
	12/2/2014	<5.0	<5.0	17	<7.5	17	<5.0	<0.010	<5.0	**62**	0.076	**0.34**	<0.0050
	5/19/2015	<1.0	<1.0	22	4.4	26	<1.0	<0.010	<1.0	**82**	0.073	**0.28**	<0.0050
MW-9	9/20/1995	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA	NA	-	-	-
	12/5/1995	<0.5	<1.0	<1.0	14	14	NA	NA	NA	NA	-	-	-
	3/7/1996	<0.5	<1.0	<1.0	3.7	3.7	NA	NA	NA	NA	-	-	-
	1/3/2002	9.4	6.9	59	51	126.3	<1.0	**<1.0**	<1.0	2.7	-	-	-
	7/3/2002	5.1	1.9	16	18	41.0	<1.0	**<1.0**	<1.0	28.8	-	-	-
	9/24/2002	9.2	<1.0	25	20	54.2	1.7	**<1.0**	<1.0	13	-	-	-

TABLE 3
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Albuquerque, Bernalillo County, New Mexico

Sample ID	Date	Organics[1]									Inorganics[5]		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	BTEX[2]	MTBE	EDB[3]	EDC	Total Naphthalenes[4]	Dissolved Iron	Dissolved Manganese	Dissolved Lead
		Concentration (µg/L)									Concentration (mg/L)		
NMWQCC Standard		10	750	750	620	NE	100*	0.1	10	30	1.0	0.2	0.05
MW-9	1/10/2003	2.2	<1.0	<1.0	<1.0	2.2	2.2	**<1.0**	<1.0	<10	-	-	-
	7/17/2003	**98**	9.9	2.4	10	120.3	7.1	0.010	<1.0	<10	-	-	-
	10/4/2006	**62**	44	11	42	159	<1.5	-	-	6.9	-	-	-
	5/8/2009	**12**	7.1	45	68	132	<1.0	-	-	**77**	-	-	-
	8/13/2011	**750**	150	270	**880**	2,050	12	-	-	**93**	-	-	-
	4/2/2013	**320**	34	<10	150	504	<10	-	-	**<40**	-	-	-
	1/30/2014	**190**	59	200	340	789	<2.0	-	-	**67**	-	-	-
	4/9/2014	**100**	49	72	110	331	<1.0	-	-	**32.4**	-	-	-
	12/2/2014	6.4	<1.0	14	5.5	26	<1.0	<0.010	<1.0	2.3	0.31	**0.81**	<0.0050
	5/19/2015	**21**	3.0	18	18	60	<1.0	<0.010	<1.0	2.7	0.22	**0.70**	<0.0050
VP-2	3/24/1994	**32**	20	94	150	296	NA	NA	NA	NA	-	-	-
	1/30/2000	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<2.0	-	-	-
	4/26/2000	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<2.0	-	-	-
	7/27/2000	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	11	-	-	-
	2/6/2001	<1.0	<1.0	<1.0	2.0	2.0	<1.0	**<1.0**	<1.0	13	0.70	**0.92**	<0.005
	5/29/2001	<1.0	<1.0	1.2	4.9	6.1	<1.0	**<1.0**	<1.0	**36.7**	0.83	**1.21**	<0.005
	10/1/2001	<1.0	<1.0	<1.0	<3.0	<6.0	<1.0	**<1.0**	<1.0	<15	-	-	-
	1/3/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	4/1/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	7/3/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	9/24/2002	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	3.4	-	-	-
	1/10/2003	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	**<1.0**	<1.0	<10	-	-	-
	7/17/2003	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	0.010	<1.0	<10	-	-	-
	10/4/2006	<1.0	<1.0	<1.0	<3.0	<3.0	<1.5	-	-	<10	-	-	-
	5/8/2009	<1.0	<1.0	1.3	1.6	2.9	<1.0	-	-	**37.3**	-	-	-

TABLE 3
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Albuquerque, Bernalillo County, New Mexico

Sample ID	Date	Organics[1]									Inorganics[5]		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	BTEX[2]	MTBE	EDB[3]	EDC	Total Naphthalenes[4]	Dissolved Iron	Dissolved Manganese	Dissolved Lead
		Concentration (µg/L)									Concentration (mg/L)		
NMWQCC Standard		10	750	750	620	NE	100*	0.1	10	30	1.0	0.2	0.05
VP-2	8/13/2011	<1.0	<1.0	2.1	2.4	4.5	<1.0	-	-	**78**	-	-	-
	4/2/2013	<2.0	<2.0	<2.0	<3.0	<3.0	<2.0	-	-	**34.7**	-	-	-
	1/30/2014	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	2.2	-	-	-
	4/9/2014	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	-	-	<4.0	-	-	-
	12/2/2014	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<0.010	<1.0	3.6	0.11	**0.59**	<0.0050
	5/19/2015	<1.0	<1.0	<1.0	<1.5	<1.5	<1.0	<0.010	<1.0	<4.0	0.070	**0.46**	<0.0050
VP-5	12/5/1995	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA	NA	-	-	-
	3/7/1996	9.5	<1.0	99	81	189.5	NA	NA	NA	NA	-	-	-
	1/30/2000	<5.0	<5.0	20	10	30.0	<5.0	**<5.0**	<5.0	**80**	-	-	-
	4/26/2000	<1.0	1.4	14	7.1	22.5	<1.0	**<1.0**	<1.0	**142**	-	-	-
	7/27/2000	<1.0	1.8	20	12	33.8	<1.0	**<1.0**	<1.0	**89**	-	-	-
	5/29/2001	<1.0	1.2	21	17	39.2	<1.0	**<1.0**	<1.0	**330**	**3.42**	**0.53**	<0.005
	10/2/2001	<5.0	<5.0	44	35	79	<5.0	**<5.0**	<5.0	**320**	-	-	-
	1/3/2002	<5.0	<5.0	50	31	81	<5.0	**<5.0**	<5.0	**340**	-	-	-
	4/1/2002	<1.0	<1.0	100	44	144	<1.0	**<1.0**	<1.0	**640**	-	-	-
	7/3/2002	<5.0	<5.0	32	19	51	<5.0	**<5.0**	<5.0	**350**	-	-	-
	9/24/2002	<5.0	<5.0	34	18	52	<5.0	**<5.0**	<5.0	**510**	-	-	-
	1/10/2003	<5.0	<5.0	61	27	88	<5.0	**<5.0**	<5.0	**510**	-	-	-
	7/17/2003	<5.0	<5.0	110	54	164	<5.0	0.010	<5.0	**930**	-	-	-
	10/4/2006	<10	<10	21	<30	21.0	<15	-	-	**430**	-	-	-
	5/8/2009	<5.0	<5.0	7.1	<7.5	7.1	<5.0	-	-	**386**	-	-	-
	8/13/2011	1.4	1.8	12	2.4	17.6	<1.0	-	-	**469**	-	-	-
	4/2/2013	<2.0	<2.0	7.7	<3.0	7.7	<2.0	-	-	**270**	-	-	-

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Albuquerque, Bernalillo County, New Mexico

Sample ID	Date	Organics[1]									Inorganics[5]		
		Benzene	Toluene	Ethylbenzene	Total Xylenes	BTEX[2]	MTBE	EDB[3]	EDC	Total Naphthalenes[4]	Dissolved Iron	Dissolved Manganese	Dissolved Lead
		Concentration (µg/L)									Concentration (mg/L)		
NMWQCC Standard		10	750	750	620	NE	100*	0.1	10	30	1.0	0.2	0.05
VP-5	1/30/2014	<1.0	1.0	3.0	<1.5	4.0	<1.0	-	-	**187**	-	-	-
	4/9/2014	<1.0	1.2	4.5	<1.5	5.7	<1.0	-	-	**217**	-	-	-
	12/2/2014	<5.0	<10	<10	<15	<15	<10	<0.010	<5.0	**280**	**1.0**	0.12	<0.0050
	5/19/2015	<5.0	<5.0	<5.0	<7.5	<7.5	<5.0	<0.010	<5.0	**200**	**1.2**	0.12	0.0061

Notes:

* = New Mexico Environment Department--Petroleum Storage Tank Bureau Action Level

- = Not Tested or Not Applicable

Bolding indicates values or RLs in excess of the NMWQCC Standard or Petroleum Storage Tank Bureau Action Level.

[1] = Analyzed by U.S. EPA Method 8260B.

[2] = Total BTEX includes sum of benzene, toluene, ethylbenzene, and total xylenes. RL for BTEX = highest RL for individual compounds; when summing detections, values listed as "<" RL are assumed to be 0.

[3] = Analyzed by U.S. EPA Method 504.1 or 8260B.

[4] = Total naphthalenes includes the sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. RL for Total Naphthalenes = highest RL for individual compounds; when summing detections, values listed as "<" RL are assumed to be 0.

[5] = Analyzed by U.S. EPA Method 6010.B.

BTEX = benzene, toluene, ethyl benzene, and total xylenes

EDB = 1,2-dibromoethane

EDC = 1,2-dichloroethane

EPA = U.S. Environmental Protection Agency

µg/L = microgram(s) per liter

mg/L = milligrams per liter

MTBE = methyl tertiary-butyl ether

NE = None Established

NMWQCC = New Mexico Water Quality Control Commission

NMWQCC Standard = Groundwater Standards as defined by the State of New Mexico Water Quality Control Commission (NMWQCC, 2002)

RL = Laboratory reporting limit

APPENDIX A

Access Agreement

CONSENT FOR ACCESS TO PROPERTY

Name of Property Owner: Roberts Oil Co
Location of Property: 800 Bridge SW, Albuquerque, New Mexico

This is my consent to the New Mexico Environment Department (Department) and its authorized officers, employees, contractors, and representatives for access to the above-described Property for the following purposes:

- Collect groundwater samples from Site monitoring wells as part of groundwater monitoring activities.

The Department or its representative will provide the Property Owner written or oral notice prior to each entrance onto Property. This notice shall be given to:

Roberts Oil Co
408 Arizona Street SE
Albuquerque
New Mexico
87108
505.262.1607

Property Owner may observe activities on the Property, consistent with Occupational Health and Safety Regulations (see 29 CFR § 1910.120) and may split all samples collected at the Property. Property Owner is responsible for the provision of all equipment and accessories and for laboratory costs necessary to split samples.

Installations on the Property will be placed to minimize interference with the movement of vehicles and regular activities on the Property. Following completion of the project, the Department or its representative will properly abandon all wells, remove equipment, all materials, trash, fencing, and other associated items. The Department or its representative will otherwise return the property as close as possible to the pre-entrance condition.

This permission is given by me voluntarily with knowledge of my right to refuse and without coercion. I have had an opportunity to ask questions and all my questions have been answered to my satisfaction.

Signature Property Owner

11-21-14
Date

APPENDIX B

Field Notes and Groundwater Sampling Forms

5/19/15 2nd Semi Annual GW Sampling AKA

0720 AKA on-Site

0740 Well within canopy vicinity located and uncovered (no pressurized odors). VP-5 full of water.

H+S concerns: high traffic, being alone, heavy well vaults, PHC.
→ Wear High-vis + gloves, check in with PM (Eileen).

0745 H+S form filled out

Objective: Gauge fluid levels at six monitoring wells + collect GW samples for 8260B/504.1/ Diss Pb, Mn, Fe.

Eq: Rental Solinst 100 'GW 1 and YSI 556 MPS. Rental SUV.

0750 Go to MW-7 to gauge (furthest well).

0840 Used peristaltic pump to get water out of vault.

0935 Had trouble getting tubing down casing of VP-5. Called Eileen.

2nd Semi Annual GW Sampling AKA 5/19/15

Well ID	Time	DTP	DTW	~~TD~~ @	Notes
MW-7	0801	–	7.91	–	No bolts
MW-9	0815	–	8.61	–	HC odor
MW-4	0819	–	7.82	–	–
VP-2	0826	–	8.24	–	
MW-8	0835	–	9.31	–	Missing bolt
VP-5	0902	–	7.94	–	Vault full of water

0905 Began calibrating YSI 556 (Rental from Pine) to 3pt pH, 1.413 $\frac{ms}{cm}$ SpC, ~~228~~ 240 @ mV ORP, & DO (@ 5 mmHg) 83.8-80.9 %.

All purge water to be put on impermeable surface.

1015 Move on to MW-8

Stable parameters below (complete record on Field Form).

Time: 1044
Pump Rate: 0.3
Water Level: 9.22
∀ Pumped: 7.1 L
DO: 4.88 mg/L
ORP: -178.9 mV
SpC: 423 $\frac{us}{cm}$
pH: 7.66
Temp: 15.11 °C

Strong HC odor / clear

1055 Sample collected,

5/19/15 2nd Semi Annual GW Sampling AKA

0720 AKA on-Site

0740 Well within canopy vicinity located and uncovered (no pressurized odors). VP-5 full of water.

H+S concerns: high traffic, being alone, heavy well vaults, PHC.
→ Wear High-vis + gloves, check in with PM (Eileen).

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2nd Semi Annual GW Sampling AKA 5/19/15

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MW-9	0815	–	8.61	–	HC odor
MW-4	0819	–	7.82	–	–
VP-2	0826	–	8.24	–	
MW-8	0835	–	9.31	–	Missing bolt
VP-5	0902	–	7.94	–	Vault full of water

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All purge water to be put on impermeable surface.

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Stable parameters below (complete record on Field Form).

Time: 1044
Pump Rate: 0.3
Water Level: 9.22
∀ Pumped: 7.1 L
DO: 4.88 mg/L
ORP: -178.9 mV
SpC: 423 $\frac{us}{cm}$
pH: 7.66
Temp: 15.11 °C

Strong HC odor / clear

1055 Sample collected,

5/19/15 2nd Semi Annual GW Sampling AKA Semi
1110 Set up at VP-5
Used orange TD-water level meter to thread tubing in order to reach water table/pump intake. Stable parameters:
Time: 1139 DO: 0.22 mg/L
Pumping Rate: 0.3 L/min ORP: -257.8 mV Temp: 17.49 °C
Water Level: 8.02' bgs SpC: 688 µS/cm
∀ Pumped: 6.5L pH: 7.32
Notes: HC odor/clear
1140 Sample Collected

1223 Set up at MW-9 Stable parameters:
Time: 1255 DO: 0.05 mg/L Temp: 16.21°C
Pumping Rate: 0.3 L/min ORP: -199.3 mV
Water Level: 8.62' bgs SpC: 340 µS/cm
∀ Pump: 4.6 pH: 7.35
Notes: Strong HC odor

Sample collected at 1300

Semi
2nd Annual GW Sampling AKA 5/19/15
1315 Set up at MW-4
9.35' Pump intake / Stable parameters:
Time: 1345 DO: 0.08 mg/L Temp: 17.02°C
Pump Rate: 0.3 L/min ORP: -91.0 mV
Water Level: 7.87' bgs SpC: 409 µS/cm
∀ Pumped: 4.6L pH: 7.38
Notes: Clear, HC odor

1350 Sample collected. QA for EDB 504.1 collected (7 bottles total).

1405 Set up at VP-2 Stable parameters:
Time: 1436 DO: 0.06 mg/L Temp: 16.94°C
Pump Rate: 0.3 ORP: -98.6 mV
Water Level: 8.30' bgs SpC: 347 µS/cm
∀ Pumped: 4.4L pH: 7.31

Notes: clear, HC odor

Sample collected at 1440

5/19/15 2nd Semi Annual GW Sampling AKA Semi
1110 Set up at VP-5
Used orange TD-water level meter to thread tubing in order to reach water table/pump intake. Stable parameters:
Time: 1139 DO: 0.22 mg/L
Pumping Rate: 0.3 L/min ORP: -257.8 mV Temp: 17.49 °C
Water Level: 8.02' bgs SpC: 688 µS/cm
∀ Pumped: 6.5L pH: 7.32
Notes: HC odor/clear
1140 Sample Collected

1223 Set up at MW-9 Stable parameters:
Time: 1255 DO: 0.05 mg/L Temp: 16.21°C
Pumping Rate: 0.3 L/min ORP: -199.3 mV
Water Level: 8.62' bgs SpC: 340 µS/cm
∀ Pump: 4.6 pH: 7.35
Notes: Strong HC odor

Sample collected at 1300

Semi
2nd Annual GW Sampling AKA 5/19/15
1315 Set up at MW-4
9.35' Pump intake / Stable parameters:
Time: 1345 DO: 0.08 mg/L Temp: 17.02°C
Pump Rate: 0.3 L/min ORP: -91.0 mV
Water Level: 7.87' bgs SpC: 409 µS/cm
∀ Pumped: 4.6L pH: 7.38
Notes: Clear, HC odor

1350 Sample collected. QA for EDB 504.1 collected (7 bottles total).

1405 Set up at VP-2 Stable parameters:
Time: 1436 DO: 0.06 mg/L Temp: 16.94°C
Pump Rate: 0.3 ORP: -98.6 mV
Water Level: 8.30' bgs SpC: 347 µS/cm
∀ Pumped: 4.4L pH: 7.31

Notes: clear, HC odor

Sample collected at 1440

5/19/15 2nd Semi Annual GW Sampling AKA

0720 AKA on-Site

0740 Well within canopy vicinity located and uncovered (no pressurized odors). VP-5 full of water.

H+S concerns: high traffic, being alone, heavy well vaults, PHC.
→ Wear High-vis + gloves, check in with PM (Eileen).

0745 H+S form filled out

Objective: Gauge fluid levels at six monitoring wells + collect GW samples for 8260B/504.1/ Diss Pb, Mn, Fe.

Eq: Rental Solinst 100 'GW 1 and YSI 556 MPS. Rental SUV.

0750 Go to MW-7 to gauge (furthest well).

0840 Used peristaltic pump to get water out of vault.

0935 Had trouble getting tubing down casing of VP-5. Called Eileen.

2nd Semi Annual GW Sampling AKA 5/19/15

Well ID	Time	DTP	DTW	~~TD~~ @	Notes
MW-7	0801	–	7.91	–	No bolts
MW-9	0815	–	8.61	–	HC odor
MW-4	0819	–	7.82	–	–
VP-2	0826	–	8.24	–	
MW-8	0835	–	9.31	–	Missing bolt
VP-5	0902	–	7.94	–	Vault full of water

0905 Began calibrating YSI 556 (Rental from Pine) to 3pt pH, 1.413 $\frac{ms}{cm}$ SpC, ~~228~~ 240 @ mV ORP, & DO (@ 5 mmHg) 83.8-80.9 %.

All purge water to be put on impermeable surface.

1015 Move on to MW-8

Stable parameters below (complete record on Field Form).

Time: 1044
Pump Rate: 0.3
Water Level: 9.22
∀ Pumped: 7.1 L
DO: 4.88 mg/L
ORP: -178.9 mV
SpC: 423 $\frac{us}{cm}$
pH: 7.66
Temp: 15.11 °C

Strong HC odor / clear

1055 Sample collected,

5/19/15 2nd Semi Annual GW Sampling AKA Semi
1110 Set up at VP-5
Used orange TD-water level meter to thread tubing in order to reach water table/pump intake. Stable parameters:
Time: 1139 DO: 0.22 mg/L
Pumping Rate: 0.3 L/min ORP: -257.8 mV Temp: 17.49 °C
Water Level: 8.02' bgs SpC: 688 µS/cm
∀ Pumped: 6.5L pH: 7.32
Notes: HC odor/clear
1140 Sample Collected

1223 Set up at MW-9 Stable parameters:
Time: 1255 DO: 0.05 mg/L Temp: 16.21°C
Pumping Rate: 0.3 L/min ORP: -199.3 mV
Water Level: 8.62' bgs SpC: 340 µS/cm
∀ Pump: 4.6 pH: 7.35
Notes: Strong HC odor

Sample collected at 1300

Semi
2nd Annual GW Sampling AKA 5/19/15
1315 Set up at MW-4
9.35' Pump intake / Stable parameters:
Time: 1345 DO: 0.08 mg/L Temp: 17.02°C
Pump Rate: 0.3 L/min ORP: -91.0 mV
Water Level: 7.87' bgs SpC: 409 µS/cm
∀ Pumped: 4.6L pH: 7.38
Notes: Clear, HC odor

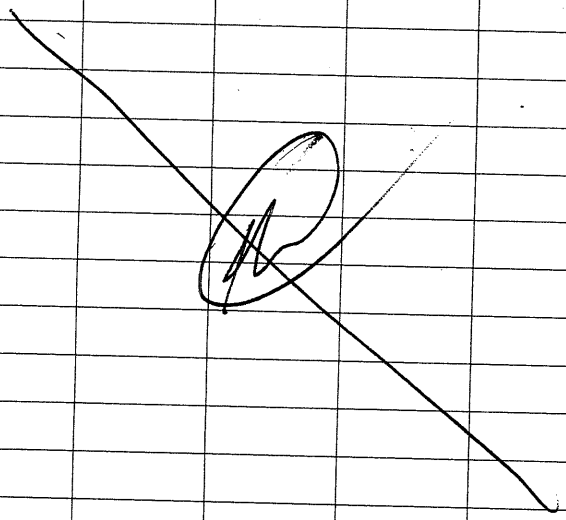
1350 Sample collected. QA for EDB 504.1 collected (7 bottles total).

1405 Set up at VP-2 Stable parameters:
Time: 1436 DO: 0.06 mg/L Temp: 16.94°C
Pump Rate: 0.3 ORP: -98.6 mV
Water Level: 8.30' bgs SpC: 347 µS/cm
∀ Pumped: 4.4L pH: 7.31

Notes: clear, HC odor

Sample collected at 1440

5/19/15 2nd Semi Annual GW Sampling AKA
1505 Setup at MW-7
Stable Parameters:
Time: 1535 DO: 3.64 mg/L
Pump Rate: 0.3 L/min ORP: -115.9 mV
Water Level: 7.91' bgs SpC: 333 us/cm
Pump: 3.4L pH: 7.86
Temp: 16.75 °C
Note: clear / HC odor
1538 Sample collected.
All samples put in an ice chilled cooler immediately after collection.
1600 AKA offsite to deliver samples.



Low-Flow Sampling Logs

Site: Bowles Bridge
Date: 5/19/15
Monitoring Well ID: ~~AAW-5~~ ~~VP-5~~ (AW) (AW) MW-8
Samplers:

Monitoring Well Information

Diameter: 2"
Total Depth: 13.32'
Water Column Height:
Depth to Product: ND
Depth to Water: 9.31
Screened Interval: 8-13

Purging Information

Type of Pump: Peristaltic
Depth of Pump intake: 10.5
Calibration Performed: 3pt pH, SpC, ORP, DO
Water Quality Meter: YSI 556 MPS (Rental)
Depth to water after pump insertion: 9.31

Sample Information

Sample Date/Time: 5/19/15 1055
Sample ID: MW-8
Samplers: AKA
Analysis: VOCs (8260B), EDB (504.1), DISS Fe, Mn, Pb (200.7).

Comments:

Signature:
Date: 5/19/15

DTW = 9.31 Intake = 10.5' bgs.

1026

0.5L / 45s

MW ID: MW-8

Time	Pumping Rate (0.1-0.5 L/min)	Water Level (ft) (goal of <0.33')	Volume Pumped (L)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (µS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
~~1027~~	~~0.3~~	—	—	5.32	-54.1	376.	7.162	15.61	strong HC odor/clear
1030	0.3	9.22	2.5	6.69	-162.8	391	7.72	15.15	↓
1033	0.3	9.20	3.5	6.93	-169.2	396.	7.71	15.13	↓
1035	0.3	9.21	4.1	~~3.79~~ 4.00	-180.8	409	7.68	15.13	strong HC odor clear
~~1037~~									↓
1037	0.3	9.22	4.7	6.99	-184.8	414	7.67	15.13	↓
1039	0.3	9.22.	5.3	6.99	-177.9	414	7.67	15.12	strong HC odor clear
1041	0.3	9.22	5.9	4.79	-182.3	418	7.66	15.11	strong HC odor clear
1043	0.3	9.22	6.5	4.43	-180.7	421	7.67	15.11	"
1044	0.3	9.22	7.1	4.80	-178.9	423	7.66	15.11	"

Low-Flow Sampling Logs

Site: Bautas Bridge
Monitoring Well ID: MW-9
Date: 5/19/15
Samplers: AKA

Monitoring Well Information

Diameter: 2"
Depth to Product:
Total Depth: 19.28
Depth to Water: 8.61
Water Column Height: 10.67
Screened Interval: 5-20

Purging Information

Type of Pump: Peristaltic
Water Quality Meter: YSI 556 (Rental)
Depth of Pump intake: 14
Depth to water after pump insertion: 8.60
Calibration Performed: 3pt pH, SpC, ORP, DO

Sample Information

Sample Date/Time: 5/19/15 1300
Sample ID: MW-9
Samplers: AKA
Analysis: VOCs (8260B), EDB (504.1), Diss Fe, Mn, Pb (200.7)

Comments:

Signature:
Date: 5/19/15

MW ID: MW-9

Time	Pumping Rate (0.1-0.5 L/min)	Water Level (ft) (goal of <0.33')	Volume Pumped (L)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (µS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
1240		8.60	—	—	—	—	—	—	—
1243	0.30	8.61	1.0	0.24	-158.9	425	6.97	16.95	Strong HC odor
1245	0.3	8.61	1.6	0.16	-164.9	423	6.97	16.72	"
1247	0.3	8.62	2.2	0.11	-178.7	420	7.04	16.64	"
1249	0.3	8.62	2.8	0.07	-191.5	349	7.19	16.45	"
1251	0.3	8.62	3.4	0.06	-195.9	345	7.27	16.41	"
1253	0.3	8.62	4.0	0.06	-198.8	340	7.35	16.17	"
1255	0.3	8.62	4.6	0.05	-199.3	340	7.35	16.21	"
1300	Sample collected								

Low-Flow Sampling Logs

Site: Bareles Bridge
Date: 5/19/15
Monitoring Well ID: VP-5
Samplers:

Monitoring Well Information

Diameter: 2"
Total Depth: 12.42
Water Column Height: 4.48
Depth to Product: —
Depth to Water: 7.94
Screened Interval: —

Purging Information

Type of Pump: Peristaltic
Depth of Pump intake: 10.30
Calibration Performed:
Water Quality Meter: YSI 556
Depth to water after pump insertion: 7.50

Sample Information

Sample Date/Time: 5/19/15 1140
Sample ID: VP-5
Samplers: AKA
Analysis: VOCs (8260B), EDB (504.1), Diss Fe, Mn, Pb (200.7)

Comments:

Signature:
Date: 5/19/15

0.350
min

MW ID: VP-5 7.94

Time	Pumping Rate (0.1-0.5 L/min)	Water Level (ft) (goal of <0.33') 7.94	Volume Pumped (L)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (µS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
~~1111~~		~~7.947.50~~							
1120	Started	7.95							
1123	0.35	8.02	1.5	0.22	-137.4	621	7.11	17.63	clear / HCodor
1125	0.35	8.02	~~1.752~~1	0.12	-164.2	623	7.20	17.61	HC odor/clear
1127	0.35	8.02	2.7	0.15	-184.1	616	7.28	17.60	"
1129	0.35	8.02	3.3	0.13	-212.5	707	7.30	17.79	"
1131	0.35	8.02	3.9	0.11	-217.7	707	7.32	17.46	"
1133	0.35	8.02	4.5	0.07	-214.1	703	7.33	17.47	"
1135	0.35	8.02	5.1	-0.01	-241.0	700	7.33	17.47	"
1137	0.35	8.02	5.7	-0.02	-235.2	@ 692	7.35	17.49	"
1139	0.35	8.02	6.5	-0.00	-257.8	688	7.36	17.49	"
Parameters		Stable;	Begin	sampling.					

Low-Flow Sampling Logs

Site Barelas Bridge
Date 5/19/15
Monitoring Well ID MW-4
Samplers AKA

Monitoring Well Information

Diameter 2"
Total Depth 10.60 (measured previously)
Water Column Height 2.78
Depth to Product ~~NA~~ ND
Depth to Water 7.82
Screened Interval 3.5-18.5

Purging Information

Type of Pump Geo Peristaltic
Depth of Pump intake 9.35'
Calibration Performed 3pt pH, SpC, ORP, DO
Water Quality Meter YSI 556 (Rental)
Depth to water after pump insertion:

Sample Information

Sample Date/Time 5/19/15 1350
Sample ID MW-4
Samplers AKA
Analysis VOCs (8260B), EDB, (504.1), DISS Fe, Mn, Pb (200.7)

Comments: QC bottles for 504.1 collected - 7 total sample bottles

Signature
Date 5/19/15

MW ID: MW-4

Time	Pumping Rate (0.1-0.5 L/min)	Water Level (ft) (goal of <0.33')	Volume Pumped (L)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (µS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
1328	—	7.82							
1333	0.3	7.86	1.0	0.35	-99.0	373	7.47	17.51	clear, HC odor
1335	0.3	7.86	1.6	0.18	-99.8	382	7.45	17.41	"
1337	0.3	7.88	2.2	0.14	-96.4	391	7.44	17.20	"
1339	0.3	7.86	2.8	0.12	-77.6	398	7.42	17.20	
1341	0.3	7.86	3.4	0.10	-85.2	402	7.40	17.16	
1343	0.3	7.87	4.0	0.10	-92.7	407	7.39	17.12	
1345	0.3	7.87	4.6	0.08	-91.0	409	7.38	17.02	
Stable; collect sample.									

Low-Flow Sampling Logs

Site: Barelas Bridge
Monitoring Well ID: VP-2
Date: 5/19/15
Samplers: AKA

Monitoring Well Information

Diameter: 2"
Depth to Product: ND
Total Depth: 12.80 (measured previously)
Depth to Water: 8.24
Water Column Height: 4.56
Screened Interval:

Purging Information

Type of Pump: Geo Peristaltic
Water Quality Meter: YSI 556 (Rental)
Depth of Pump intake: 10.25
Depth to water after pump insertion:
Calibration Performed: 3pt pH, SpC, ORP, DO

Sample Information

Sample Date/Time: 5/19/15 1440
Sample ID: VP-2
Samplers: AKA
Analysis: VOCs (8260B), EDB (504.1), Diss Fe, Mn, Pb (200.7)

Comments:

Signature:
Date: 5/19/15

MW ID: VP-2

Time	Pumping Rate (0.1-0.5 L/min)	Water Level (ft) (goal of <0.33')	Volume Pumped (L)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (µS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
1420	—	8.23							initial
1424	0.3	8.30	0.8	0.24	-14.3	344	6.91	17.35	slightly sulfur odor, clear
1426	0.3	8.30	1.4	0.17	-50.6	343	6.95	17.44	clear, no HC odor
1428	0.3	8.29	2.0	0.09	-62.7	342	7.04	17.26	"
1430	0.3	8.30	2.6	0.11	-69.8	342	7.14	17.15	"
1432	0.3	8.30	3.2	0.07	-89.9	343	7.23	17.04	"
1434	0.3	8.30	3.8	0.06	-89.7	344	7.28	16.90	"
1436	0.3	8.30	4.4	0.06	-98.6	347	7.31	16.94	"
Parameters stable, begin collecting sample.									

Low-Flow Sampling Logs

Site: Barelas Bridge
Monitoring Well ID: MW-7
Date: 5/19/15
Samplers: AKA

Monitoring Well Information

Diameter: 2"
Depth to Product: ND
Total Depth: 21.66' (measured previously)
Depth to Water: 7.91
Water Column Height: 13.75
Screened Interval: 7-22'

Purging Information

Type of Pump: Geo Peristaltic
Water Quality Meter: YSI 556 (rental)
Depth of Pump intake: 14.9
Depth to water after pump insertion:
Calibration Performed: 3pt pH, SpC, ORP, DO

Sample Information

Sample Date/Time: 5/19/15 1538
Sample ID: MW-7
Samplers: AKA
Analysis: 8260B, 504.1, 200.7 VOCs, EDB, Diss Fe, Mn, Pb

Comments:

Signature:
Date: 5/19/15

MW ID: MW-7

Time	Pumping Rate (0.1-0.5 L/min)	Water Level (ft) (goal of <0.33')	Volume Pumped (L)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (µS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
1520	———	7.95	———						
1527	0.30	7.91	1.0	3.82	-114.2	350	7.84	18.26	clear/HC odor
1529	0.30	7.91	1.6	3.55	-113.0	339	7.84	17.30	"
1531	0.30	7.92	2.2	3.55	-112.6	336	7.83	16.99	"
1533	0.3	7.91	2.8	3.53	-113.3	333	7.84	16.79	"
1535	0.3	7.91	3.4	3.64	-115.9	333	7.86	16.95	"
Parameters stable; begin sampling									

Chain-of-Custody Record

Client: INTERA Inc

Eileen Marcillo

Mailing Address: 6000 Uptown Blvd NE St 220 ABQ 87106

Phone #: [illegible]

email or Fax#: [illegible]

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: [illegible] Bridge

Project #: NMENV 11002. PSTB

Project Manager: Eileen Marcillo

Sampler: AKA

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.8°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Diss Fe, Pb, Mn				Air Bubbles (Y or N)
5/19/15	1055	AQ	MW 8	[illegible]	[illegible]						X					X		X				
5/19/15	1140	↓	VP 5	↓	↓						X					X		X				
5/19/15	1300	↓	MW 9	↓	↓						X					X		X				
5/19/15	1350	↓	MW 4	↓	↓						X					X		X				
5/19/15	1400	↓	VP 2	↓	↓						X					X		X				
5/19/15	1530	↓	MW-2	↓	↓						X					X		X				
		AQ	TRIP Blank								X					X		X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/19/15	1620	[signature]	[signature]	05/19/15	1620
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Dissolved metals 200.7 Iron, Manganese and Lead

Copy [illegible]@intera.com with results.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 The customer may order services by submitting a written purchase order to HEAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotiated contract. Any such order constitutes a) an acceptance by the Customer of HEAL'S offer to do business with the Customer under these Terms and Conditions, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to proceed with work at any time based upon an unfavorable customer credit report.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 Services performed by HEAL will be in accordance with prices quoted and later confirmed in writing or as stated on the Price Schedule, which prices are subject to change periodically without notice. The Customer should confirm with HEAL the current price prior to placing an order for work.

3.2 Payment terms are net 30 days from the date of invoice by HEAL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State currency.

3.3 The prices stated on the Price Schedule do not include any sales, use or other taxes unless specifically stated. Such taxes will be added to invoice prices when required.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 Prior to HEAL'S Acceptance of any sample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will remain with the Customer. In no event will HEAL have any responsibility or liability for the action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance or, any sample which in the sole judgement of HEAL a) is of unsuitable volume, b) unsuitable containers as required for the requested analysis, or c) may be or become unsuitable for, or may pose a risk in, handling, transport or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer.

4.3 Where applicable, HEAL will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these methodologies, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and/ or HEAL'S Standard Operating Procedures.

4.4 Upon timely delivery of samples, HEAL will use its best efforts to comply with storage, processing and analytical holding time limits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or set forth on the Price Schedule. However, unless specifically made part of a written agreement between HEAL and the Customer, such time limits cannot be guaranteed. Unless specifically indicated on the Price Schedule or expressly made part of a written agreement between HEAL and the Customer, analytical turnaround times are not guaranteed.

4.5 At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results. Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S standard quality assurance review procedures.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 HEAL warrants only that its services will fulfill obligations set forth in Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty given by HEAL in connection with any such services, and HEAL gives and makes no other representation or warranty of any kind, express or implied. No representative of HEAL is authorized to give or make any other representation or warranty or modify the warranty in any way.

5.2 The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, refunding in full or in part fees paid by the Customer for such services. HEAL'S obligation to repeat any services with respect to any sample will be contingent on the Customer's providing, at the request of HEAL and at the Customer's expense, an additional sample if necessary. Any reanalysis generating Results consistent with the Original Results will be at the Customer's expense. Except as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability to the Customer for any failure or delay in performance by HEAL, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disputes, difficulties or delays in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.

5.4 All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by Customers or third parties. All results should be considered in their entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by the customer. The Customer further warrants that any sample containing any hazardous substance, which is to be delivered to HEAL'S premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws.

5.6 It is understood and agreed that all samples and cuttings of materials containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laboratory byproducts will be returned to the Customer for disposal. It is understood and agreed that HEAL is not, and has no responsibility as, a generator, treater, storer, or disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, duties, fines and/or other costs (including but not limited to liability to a third party) arising out of a) the presence of hazardous substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5.5 hereof b) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence by the Customer in the use, evaluation, or application of Results provided by HEAL.

5.8 Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any HEAL instrumentation to be reduced, stopped, or altered, HEAL is entitled to compensation by the Customer for any loss of revenue due to the instrument's downtime, and/or the parts and labor necessary to bring the instruments back to its former operating condition. The amount of compensation is negotiable upon acceptance of these Terms and Conditions and the individual circumstances warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by HEAL as provided in Section 7.1, embodied the whole agreement of the parties. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, unless made in accordance with Section 7.1, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.

7. AMENDMENTS AND WAIVERS

7.1 HEAL shall not be subject to or bound by any provision, term or condition which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and provision, term or condition, or have given any required consent or approval, or to have waived any breach by the Customer of any of these Terms and Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duly authorized officer. No other employee, servant, agent or representatives of HEAL has any authority whatsoever to add to, delete, alter or vary any of these Terms and Conditions in any manner, or to give any consent, approval or waiver, and HEAL shall not be bound by any such purported addition, deletion, alteration, variation, consent, approval or waiver.

7.2 No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the Customer hereunder shall constitute a waiver of such provision, term or condition on any other occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance. Storage of samples or extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material may be returned at the client's expense. Materials, which are identified as hazardous, will be returned to the client or disposed of as hazardous waste and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

9.1 The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These Terms and Conditions or their interpretations.

10. GOVERNING LAW

10.1 These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.

APPENDIX C

Historical Fluid Levels and Groundwater Chemistry Data

TABLE 1

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION
800 BRIDGE STREET S.W. SITE
GROUND-WATER LEVELS

DATE	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
10/31/90	4933.50	4933.35	4933.37	4934.67	4934.28	4934.15	4934.58	4934.98
11/14/90	4933.31	4933.15	4933.13	4934.55	4934.09	4934.02	4934.45	4934.92
11/28/90	4933.08	4932.91	4932.93	4934.56	4933.62	4933.54	4934.04	4934.76
11/29/90	4933.05	4932.94	4932.91	4934.53	4933.60	4933.53	4934.03	4934.75
12/12/90	4933.04	4932.92	4932.89	4934.50	4933.58	4933.51	4934.11	4934.71

TABLE 2

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION
RECORDS OF WATER QUALITY
COLLECTED BY LEGGETTE, BRASHEARS & GRAHAM, INC.
800 BRIDGE SITE

DATE	SAMPLE NO.	PPB	PPB	PPB	PPB	PPB	PPM
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	MTBE	TVH
10/5/90	TAP WATER 140 LaVega	U	U	U	U		U
10/5/90	TAP WATER 152 LeVega	U	U	U	U		U
10/11/90	TRIP BLANK	U	U	U	1.6	U	U
10/15/90	AH-1	2	1.8	U	U	U	U
10/15/90	AH-2	2600*	1400*	1900*	14000*	U	73.6
10/15/90	AH-3	1.5	0.6	1.4	0.8	U	1
10/15/90	AH-4	23*	18	150	22	U	15.7
10/15/90	TRIP BLANK	U	U	0.7	3	U	U
10/16/90	AH-5	23*	0.8	0.7	10	U	1
10/30/90	MW-1	2.6	0.5	U	1.7		U
10/30/90	MW-2	U	0.2	U	1		U
10/30/90	MW-3	U	0.4	U	1.3		U
10/30/90	MW-4	590*	35.3	518.4	1871.1*		5
10/30/90	MW-5	U	0.5	U	1.5		U
10/30/90	MW-6	10.7*	33.3	32.7	175.5		4
10/30/90	MW-7	9.8	3	20.8	4.9		1
10/30/90	MW-8	220*	120	960*	1140*		9
10/30/90	FIELD BLANK	U	0.5	U	0.8		U
10/30/90	TRIP BLANK	U	0.7	U	1.5		U
10/31/90	TAP WATER 153 LaVega	U	0.6	U	2		U
11/27/90	TRIP BLANK	U	U	U	U		
11/28/90	MW-2	U	1.1	U	0.6		0.7
11/29/90	MW-4	49	1	8.4	14		0.9
NMEID Action Levels		10	750	750	620	100	

* Concentration is above NMEID action level

U = Undetected

ppb = Parts per billion

ppm = Parts per million

TVH = Total volatile hydrocarbons

TABLE 3

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION
RECORDS OF WATER QUALITY SAMPLES
COLLECTED BY ALBUQUERQUE ENVIRONMENTAL HEALTY DEPARTMENT
800 BRIDGE STREET SW

SAMPLE DATE	LOCATION	PPB BENZENE	PPB TOLUENE	PPB ETHYL-BENZENE	PPB TOTAL XYLENES	PPM IRON	PPM MANGANESE	PPM LEAD	PPM ZINC
8/8/89	NW 800 BRDG	10*	190	0	2				
8/8/89	NE 800 BRDG	70*	220	68	44				
8/8/89	SW 800 BRDG	U	250	U	U				
8/8/89	SE 800 BRDG	500*	120	930*	370				
	A-1	1	U	U	U				
9/12/89	A-2	5700*	4100*	29000*	20700*	10.2*	1.78*	0.011	0.082
9/12/89	A-3	2.6	4.1	25	18.9	U	1.12*	U	0.02
9/12/89	A-4	U	U	U	U				
9/13/89	A-5	10000*	7000*	14500*	40500*				
9/13/89	A-6	1650*	160	1620*	930*				
9/26/89	A-7	3900*	7500*	9700*	30500*	12.5*	1.55*	0.026	0.052
9/26/89	A-8	160*	490	2100*	9500*	7.5*	0.601*	0.029	0.051
9/27/89	A-9	26*	5	8.8	7.4	0.568	1.14*	U	0.019
10/11/89	A-11	7700*	2800*	5700*	19000*	12.2*	1.35*	0.018	0.071
10/11/89	A-12	U	U	U	U	0.423	0.36*	U	0.013
10/10/89	A-13	2000*	U	U	U	6.96*	0.992*	0.012	0.034
11/8/89	A-14	U	U	U	U	0.859	0.451*	U	0.018
11/8/89	A-15	300*	U	U	U	2.45*	1.08*	0.003	0.021
11/8/89	A-16	U	U	U	U	0.289	0.41	U	U
2/19/90	MW-1	4.8	7.2	U	U				
2/19/90	MW-2	5.7	7.2	U	U				
2/19/90	MW-3	U	2.6	U	U				
2/19/90	MW-4	190*	25	280	865*				
9/13/89	145 LA VEGA	U	U	U	U				
8/10/89	183 RIVERSIDE	U	U	U	U				
8/11/89	183 RIVERSIDE	U	U	U	U				
10/4/89	154 LA VEGA	U	U	U	U				
10/4/89	152 LA VEGA	U	U	U	U				
10/16/89	153 LA VEGA	U	U	U	U				
NMEID Action Levels		10	750	750	620	1	0.2	0.05	10

* Concentration is above NMEID Action Level
U = Undetected
Ppb = Parts per billion
Ppm = Parts per million

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WESTERN TECHNOLOGIES INC.

GROUND WATER ELEVATION DATA
TABLE 1

MONITOR WELL NUMBER	DATE	CASING RIM ELEVATION (FEET)	DEPTH TO BOTTOM (FEET)	BOTTOM OF CASING ELEVATION (FEET)	DEPTH TO GROUND WATER (FEET)	DEPTH TO PRODUCT (FEET)	PRODUCT THICKNESS (FEET)	WATER COLUMN THICKNESS (FEET)	POTENTIOMETRIC SURFACE ELEVATION (FEET)
MW-1	01/06/00	4942.99	8.24	4934.75	Dry	NA	NA	Dry	Dry
MW-2	05/30/03	Plugged and Abandoned							
	01/06/00	4942.47	5.94	4936.53	Dry	NA	NA	Dry	Dry
MW-3	05/30/03	Appears to be plugged and abandoned before May 2003							
	01/26/00	4942.03	20.47	4921.56	8.65	NA	NA	11.82	4933.38
	01/06/00	4942.03	20.47	4921.56	8.59	NA	NA	11.88	4933.44
	03/07/96	4942.03	20.47	4921.56	8.51	NA	NA	11.96	4933.52
MW-4	07/17/03	4943.23	16.50	4926.73	8.45	NA	NA	8.05	4934.78
	01/10/03	4943.23	16.50	4926.73	8.35	NA	NA	8.15	4934.88
	09/24/02	4943.23	16.50	4926.73	8.33	NA	NA	8.17	4934.90
	07/03/02	4943.23	16.50	4926.73	8.30	NA	NA	8.20	4934.93
	04/01/02	4943.23	16.50	4926.73	8.48	NA	NA	8.02	4934.75
	01/03/02	4943.23	16.50	4926.73	8.43	NA	NA	8.07	4934.80
	10/01/01	4943.23	16.50	4926.73	8.00	NA	NA	8.50	4935.23
	05/29/01	4943.23	16.48	4926.75	8.08	NA	NA	8.40	4935.15
	02/06/01	4943.23	16.48	4926.75	8.19	NA	NA	8.29	4935.04
	07/27/00	4943.23	16.48	4926.75	9.04	NA	NA	7.44	4934.19
	04/26/00	4943.23	16.48	4926.75	9.16	NA	NA	7.32	4934.07
	01/26/00	4943.23	16.48	4926.75	8.65	NA	NA	7.83	4934.58
	01/06/00	4943.23	16.48	4926.75	8.51	NA	NA	7.97	4934.72
	03/07/96	4943.23	16.48	4926.75	8.48	NA	NA	8.00	4934.75
MW-5	05/30/03	Plugged and Abandoned							
	01/26/00	4942.18	21.48	4920.70	8.23	NA	NA	13.25	4933.95
	01/06/00	4942.18	21.48	4920.70	8.14	NA	NA	13.34	4934.04
	03/07/96	4942.18	21.48	4920.70	8.07	NA	NA	13.41	4934.11

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MONITOR WELL NUMBER	DATE	CASING RIM ELEVATION (FEET)	DEPTH TO BOTTOM (FEET)	BOTTOM OF CASING ELEVATION (FEET)	DEPTH TO GROUND WATER (FEET)	DEPTH TO PRODUCT (FEET)	PRODUCT THICKNESS (FEET)	WATER COLUMN THICKNESS (FEET)	POTENTIOMETRIC SURFACE ELEVATION (FEET)
MW-6	05/30/03	Plugged and Abandoned							
	01/26/00	4944.59	13.16	4931.43	8.36	NA	NA	4.80	4936.23
	01/06/00	4944.59	13.16	4931.43	9.37	NA	NA	3.79	4935.22
	03/07/96	4944.59	13.16	4931.43	9.22	NA	NA	3.94	4935.37
MW-7	07/17/03	4942.94	21.45	4921.49	8.53	NA	NA	12.92	4934.41
	01/10/03	4942.94	21.45	4921.49	8.45	NA	NA	13.00	4934.49
	09/24/02	4942.94	21.45	4921.49	8.45	NA	NA	13.00	4934.49
	07/03/02	4942.94	21.45	4921.49	8.40	NA	NA	13.05	4934.54
	04/01/02	4942.94	21.45	4921.49	8.66	NA	NA	12.79	4934.28
	01/03/02	4942.94	21.45	4921.49	8.50	NA	NA	12.95	4934.44
	10/02/01	4942.94	21.45	4921.49	8.20	NA	NA	13.25	4934.74
	03/07/96	4942.94	21.45	4921.49	8.61	NA	NA	12.84	4934.33
MW-8	07/17/03	4944.59	13.16	4931.43	9.71	NA	NA	3.45	4934.88
	01/10/03	4944.59	13.16	4931.43	9.68	NA	NA	3.48	4934.91
	09/24/02	4944.59	13.16	4931.43	9.61	NA	NA	3.55	4934.98
	07/03/02	4944.59	13.16	4931.43	9.53	NA	NA	3.63	4935.06
	04/01/02	4944.59	13.16	4931.43	9.73	NA	NA	3.43	4934.86
	01/04/02	4944.59	13.16	4931.43	9.63	NA	NA	3.53	4934.96
	10/02/01	4944.59	13.16	4931.43	9.35	NA	NA	3.81	4935.24
	05/29/01	4944.59	13.16	4931.43	9.32	NA	NA	3.84	4935.27
	02/06/01	4944.59	13.16	4931.43	9.41	NA	NA	3.75	4935.18
	07/27/00	4944.59	13.16	4931.43	9.32	NA	NA	3.84	4935.27
	04/26/00	4944.59	13.16	4931.43	9.40	NA	NA	3.76	4935.19
	01/26/00	4944.59	13.16	4931.43	9.82	NA	NA	3.34	4934.77
	01/06/00	4944.59	13.16	4931.43	9.82	NA	NA	3.34	4934.77
	03/07/96	4944.59	13.16	4931.43	9.74	NA	NA	3.42	4934.85

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MW-9	07/17/03	4943.98	19.43	4924.55	9.22	NA	NA	10.21	4934.76
	01/10/03	4943.98	19.43	4924.55	9.15	NA	NA	10.28	4934.83
	09/24/02	4943.98	19.43	4924.55	9.10	NA	NA	10.33	4934.88
	07/03/02	4943.98	19.43	4924.55	9.00	NA	NA	10.43	4934.98
	01/26/00	4943.98	19.43	4924.55	9.31	NA	NA	10.12	4934.67
	01/06/00	4943.98	19.43	4924.55	9.30	NA	NA	10.13	4934.68
	03/07/96	4943.98	19.43	4924.55	9.26	NA	NA	10.17	4934.72
VP-1	05/30/03	Plugged and Abandoned							
	04/01/02	4943.75	13.95	4929.79	8.65	NA	NA	5.30	4935.10
	01/03/02	4943.75	13.95	4929.79	8.50	NA	NA	5.45	4935.25
	10/01/01	4943.75	13.96	4929.79	8.10	NA	NA	5.86	4935.65
	05/29/01	4943.75	13.96	4929.79	8.17	NA	NA	5.79	4935.58
	02/06/01	4943.75	13.96	4929.79	8.29	NA	NA	5.67	4935.46
	07/27/00	4943.75	13.96	4929.79	8.28	NA	NA	5.68	4935.47
	04/26/00	4943.75	13.96	4929.79	8.28	NA	NA	NA	4935.47
	01/26/00	4943.75	13.96	4929.79	NM	NA	NA	NA	NA
	01/06/00	4943.75	13.96	4929.79	8.64	NA	NA	5.32	4935.11
	01/10/96	4943.75	13.96	4929.79	8.57	NA	NA	5.39	4935.18
VP-2	07/17/03	4943.73	12.57	4931.16	8.81	NA	NA	3.76	4934.92
	01/10/03	4943.73	12.57	4931.16	8.83	NA	NA	3.74	4934.90
	09/24/02	4943.73	12.57	4931.16	8.73	NA	NA	3.84	4935.00
	07/03/02	4943.73	12.57	4931.16	8.63	NA	NA	3.94	4935.10
	04/01/02	4943.73	12.57	4931.16	8.94	NA	NA	3.63	4934.79
	01/03/02	4943.73	12.57	4931.16	8.71	NA	NA	3.86	4935.02
	10/01/01	4943.73	12.65	4931.08	8.40	NA	NA	4.25	4935.33
	05/29/01	4943.73	12.57	4931.16	8.44	8.33	0.11	4.13	4935.38
	02/06/01	4943.73	12.57	4931.16	8.55	NA	NA	4.02	4935.18
	07/27/00	4943.73	12.57	4931.16	8.44	NA	NA	4.13	4935.29
	04/26/00	4943.73	NA	NA	8.53	NA	NA	NA	4935.20
	01/26/00	4943.73	NA	NA	8.93	NA	NA	NA	4934.80
	03/24/94	4943.73	NA	NA	8.96	NA	NA	NA	4934.77

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VP-3	05/30/03	Plugged and Abandoned							
	01/26/00	4943.73	13.16	4930.57	8.85	NA	NA	4.31	4934.88
	01/06/00	4943.73	13.16	4930.57	8.84	NA	NA	4.32	4934.89
	02/09/95	4943.73	13.16	4930.57	8.93	NA	NA	4.23	4934.80
VP-4	05/30/03	Plugged and Abandoned							
	01/26/00	4943.72	12.73	4930.99	8.54	NA	NA	4.19	4935.18
	01/06/00	4943.72	12.73	4930.99	8.53	NA	NA	4.20	4935.19
	03/07/96	4943.72	12.73	4930.99	8.46	NA	NA	4.27	4935.26
VP-5	07/17/03	4943.52	12.17	4931.35	8.55	NA	NA	3.62	4934.97
	01/10/03	4943.52	12.17	4931.35	8.53	NA	NA	3.64	4934.99
	09/24/02	4943.52	12.17	4931.35	8.44	NA	NA	3.73	4935.08
	07/03/02	4943.52	12.17	4931.35	8.27	NA	NA	3.90	4935.25
	04/01/02	4943.52	12.17	4931.35	8.56	NA	NA	3.61	4934.96
	01/03/02	4943.52	12.17	4931.35	8.55	NA	NA	3.62	4934.97
	10/02/01	4943.52	12.05	4931.47	8.10	NA	NA	3.95	4935.42
	05/29/01	4943.52	12.17	4931.35	8.01	NA	NA	4.16	4935.51
	07/27/00	4943.52	12.17	4931.35	8.18	NA	NA	3.99	4935.34
	04/26/00	4943.52	NA	NA	8.17	NA	NA	NM	4935.35
	01/26/00	4943.52	NA	NA	8.61	NA	NA	NM	4934.91
	03/07/96	4943.52	NA	NA	8.55	NA	NA	NM	4934.97

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MONITOR WELL NUMBER	DATE	CASING RIM ELEVATION (FEET)	DEPTH TO BOTTOM (FEET)	BOTTOM OF CASING ELEVATION (FEET)	DEPTH TO GROUND WATER (FEET)	DEPTH TO PRODUCT (FEET)	PRODUCT THICKNESS (FEET)	WATER COLUMN THICKNESS (FEET)	POTENTIOMETRIC SURFACE ELEVATION (FEET)
VP-6	05/30/03	Plugged and Abandoned							
	01/10/03	4943.53	12.55	4930.98	9.10	NA	NA	3.45	4934.43
	09/24/02	4943.53	12.55	4930.98	9.06	NA	NA	3.49	4934.47
	07/03/02	4943.53	12.55	4930.98	8.99	NA	NA	3.56	4934.54
	04/01/02	4943.53	12.55	4930.98	9.20	NA	NA	3.35	4934.33
	01/03/02	4943.53	12.55	4930.98	9.05	NA	NA	3.50	4934.48
	10/02/01	4943.53	12.33	4931.20	8.75	NA	NA	3.58	4934.78
	05/29/01	4943.53	12.60	4930.93	8.73	NA	NA	3.87	4934.80
	02/06/01	4943.53	12.60	4930.93	8.81	NA	NA	3.79	4934.72
	07/27/00	4943.53	12.60	4930.93	8.81	NA	NA	3.79	4934.72
	04/26/00	4943.53	12.60	4930.93	8.80	NA	NA	3.80	4934.73
	01/26/00	4943.53	12.60	4930.93	9.23	NA	NA	3.37	4934.30
	01/06/00	4943.53	12.60	4930.93	9.23	NA	NA	3.37	4934.30
	03/07/96	4943.53	12.60	4930.93	9.20	NA	NA	3.40	4934.33
VP-7	05/30/03	Plugged and Abandoned							
	01/26/00	4943.52	12.82	4930.70	9.52	NA	NA	3.30	4934.00
	01/06/00	4943.52	12.82	4930.70	9.52	NA	NA	3.30	4934.00
	03/07/96	4943.52	12.82	4930.70	9.45	NA	NA	3.37	4934.07
PR-2	05/30/03	Plugged and Abandoned							
	01/06/00	4944.09	9.18	4934.91	Dry	NA	NA	Dry	Dry
PR-3	05/30/03	Plugged and Abandoned							
	01/06/00	4944.22	8.73	4935.49	Dry	NA	NA	Dry	Dry

NM = Not Measured NA = Not Applicable

Barelas Bridge
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WESTERN TECHNOLOGIES INC.
SUMMARY OF WATER SAMPLE ANALYTICAL TEST RESULTS

TABLE 3

		*NAPHTHALENE (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENE (PPB)	**TOTAL BTEX (PPB)	MTBE (PPB)	EDB (PPB)	EDC (PPB)
NMWQCC Regulatory Limits		**30**	**10**	**750**	**750**	**620**		**100**	**0.1**	**10**
MONITOR WELL	DATE									
MW-1	06/06/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA
	03/07/95	N/A	<0.5	<1.0	<1.0	<1.0	<4.5	NA	NA	NA
MW-2	09/20/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA
	09/08/94	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA
MW-3	01/30/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	12/01/94	N/A	<0.5	<1.0	<1.0	<2.0	<4.0	NA	NA	NA
	06/02/94	N/A	11	<1.0	1.3	<2.0	12.3	NA	NA	NA
MW-4	**07/17/03**	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	0.010	<1.0
	01/10/03	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	09/24/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	07/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	04/01/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	01/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	10/01/01	<15.0	<1.0	<1.0	<1.0	<3.0	<6.0	<1.0	<1.0	<1.0
	05/29/01	<6.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	02/06/01	3.9	2.5	<1.0	<1.0	1.5	4.0	<1.0	<1.0	<1.0
	07/27/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	04/26/00	<2.0	2.9	<1.0	<1.0	<1.0	2.9	<1.0	<1.0	<1.0
	01/30/00	<2.0	5.4	<1.0	<1.0	2.6	8.0	<1.0	<1.0	<1.0
	06/06/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA
	03/07/95	N/A	40	1.0	54	<2.0	95.0	NA	NA	NA

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WESTERN TECHNOLOGIES INC.
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TABLE 3

		*NAPHTHALENE (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENE (PPB)	**TOTAL BTEX (PPB)	MTBE (PPB)	EDB (PPB)	EDC (PPB)
NMWQCC Regulatory Limits		**30**	**10**	**750**	**750**	**620**		**100**	**0.1**	**10**
MONITOR WELL	DATE									
MW-5	01/30/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	12/05/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA
	09/20/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA
MW-6	01/30/00	<2.0	<1.0	8.3	18	54	80.3	<1.0	<1.0	<1.0
	03/07/96	N/A	1.7	1.4	2.0	4.2	9.3	NA	NA	NA
	12/05/95	N/A	1.2	4.2	2.8	12.0	20.2	NA	NA	NA
	12/01/94	N/A	29	26	36	130	221	NA	NA	NA
MW-7	07/17/03	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	0.010	<1.0
	01/10/03	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	09/24/02	22.8	3.1	< 1.0	< 1.0	1.7	4.8	<1.0	<1.0	<1.0
	07/03/02	28.8	2.6	< 1.0	< 1.0	3.0	5.6	<1.0	<1.0	<1.0
	04/01/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	01/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	10/02/01	<15.0	<1.0	<1.0	<1.0	3.3	3.3	<1.0	<1.0	<1.0
	03/07/96	N/A	1.9	<1.0	<1.0	<2.0	1.9	NA	NA	NA
	12/05/95	N/A	6.0	1.2	2.2	<2.0	9.4	NA	NA	NA
	09/20/95	N/A	78	2.1	9.9	8.7	98.7	NA	NA	NA

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WESTERN TECHNOLOGIES INC.
SUMMARY OF WATER SAMPLE ANALYTICAL TEST RESULTS

TABLE 3

		*NAPHTHALENE (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENE (PPB)	**TOTAL BTEX (PPB)	MTBE (PPB)	EDB (PPB)	EDC (PPB)
NMWQCC Regulatory Limits		**30**	**10**	**750**	**750**	**620**		**100**	**0.1**	**10**
MONITOR WELL	DATE									
MW-8	07/17/03	310	<5.0	<5.0	66	38	104	<5.0	0.010	<5.0
	01/10/03	284	<2.0	<2.0	57	38	95	<2.0	<2.0	<2.0
	09/24/02	238	< 5.0	< 5.0	58	29	87	<5.0	<5.0	<5.0
	07/03/02	202	< 5.0	< 5.0	86	40	126	<5.0	<5.0	<5.0
	04/01/02	273	<5.0	<5.0	100	43	143	<5.0	<5.0	<5.0
	01/04/02	313	3.0	3.2	35	50	91.2	<2.0	<2.0	<2.0
	10/02/01	120	<10	<10	90	51	141	<10	<10	<10
	05/29/01	261	4.2	2.6	110	57	173.8	<2.0	<2.0	<2.0
	02/06/01	140	<10	<10	130	43	173.0	<10	<10	<10
	07/27/00	140	6.0	5.2	150	61	222.2	<1.0	<1.0	<1.0
	04/26/00	136	3.2	2.2	<1.0	35.0	40.4	<1.0	<1.0	<1.0
	01/30/00	98	<10	<10	150.0	5.7	155.7	<10	<10	<10
	03/07/96	N/A	71	24	400	150	645.0	NA	NA	NA
	12/05/95	N/A	8.6	8.3	49	18	83.9	NA	NA	NA
	09/20/95	N/A	11	19	190	74	294.0	NA	NA	NA
MW-9	07/17/03	<10.0	98	9.9	2.4	10	120.3	7.1	0.010	<1.0
	01/10/03	<10.0	2.2	< 1.0	<1.0	<1.0	2.2	2.2	<1.0	<1.0
	09/24/02	13	9.2	< 1.0	25	20	54.2	1.7	<1.0	<1.0
	07/03/02	28.8	5.1	1.9	16	18	41.0	<1.0	<1.0	<1.0
	01/30/00	2.7	9.4	6.9	59	51	126.3	<1.0	<1.0	<1.0
	03/07/96	N/A	<0.5	<1.0	<1.0	3.7	3.7	NA	NA	NA
	12/05/95	N/A	<0.5	<1.0	<1.0	14.0	14.0	NA	NA	NA
	09/20/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA

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WESTERN TECHNOLOGIES INC.
SUMMARY OF WATER SAMPLE ANALYTICAL TEST RESULTS

TABLE 3

		*NAPHTHALENE (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENE (PPB)	**TOTAL BTEX (PPB)	MTBE (PPB)	EDB (PPB)	EDC (PPB)
NMWQCC Regulatory Limits		**30**	**10**	**750**	**750**	**620**		**100**	**0.1**	**10**
MONITOR WELL	DATE									
VP-1	04/01/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	01/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	10/01/01	<15.0	<1.0	<1.0	<1.0	<3.0	<6.0	<1.0	<1.0	<1.0
	05/29/01	<6.0	1.9	<1.0	<1.0	2.0	3.9	<1.0	<1.0	<1.0
	02/06/01	<2.0	1.8	<1.0	<1.0	1.6	3.4	<1.0	<1.0	<1.0
	07/27/00	<2.0	3.5	<1.0	<1.0	1.4	4.9	<1.0	<1.0	<1.0
	04/26/00	<2.0	3.4	<1.0	<1.0	2.4	5.8	<1.0	<1.0	<1.0
	01/30/00	<2.0	1.3	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0
	03/07/96	N/A	<0.5	1.4	<1.0	<2.0	1.4	NA	NA	NA
	12/05/95	N/A	<0.5	1.2	1.0	<2.0	2.2	NA	NA	NA
	09/20/95	N/A	<0.5	<1.0	4.3	<2.0	4.3	NA	NA	NA
VP-2	**07/17/03**	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	0.010	<1.0
	01/10/03	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	09/24/02	3.4	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	07/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	04/01/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	01/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	10/01/01	<15.0	<1.0	<1.0	<1.0	<3.0	<6.0	<1.0	<1.0	<1.0
	05/29/01	**36.7**	<1.0	<1.0	1.2	4.9	6.1	<1.0	<1.0	<1.0
	02/06/01	13	<1.0	<1.0	<1.0	2.0	2.0	<1.0	<1.0	<1.0
	07/27/00	11	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	04/26/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	01/30/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	03/24/94	N/A	**32**	20	94	150	296	NA	NA	NA

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WESTERN TECHNOLOGIES INC.
SUMMARY OF WATER SAMPLE ANALYTICAL TEST RESULTS

TABLE 3

		*NAPHTHALENE (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENE (PPB)	**TOTAL BTEX (PPB)	MTBE (PPB)	EDB (PPB)	EDC (PPB)
NMWQCC Regulatory Limits		**30**	**10**	**750**	**750**	**620**		**100**	**0.1**	**10**
MONITOR WELL	DATE									
VP-3	01/30/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	06/16/93	N/A	110	7.3	180	74	371.3	NA	NA	NA
VP-4	01/30/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	03/07/96	N/A	1.7	<1.0	<1.0	<1.0	1.7	NA	NA	NA
	09/20/95	N/A	<0.5	<1.0	4.3	<2.0	4.3	NA	NA	NA
VP-5	**07/17/03**	**930**	< 5.0	< 5.0	110	54	164	<5.0	0.010	<5.0
	01/10/03	**510**	< 5.0	< 5.0	61	27	88	<5.0	<5.0	<5.0
	09/24/02	**510**	< 5.0	< 5.0	34	18	52	<5.0	<5.0	<5.0
	07/03/02	**350**	< 5.0	< 5.0	32	19	51	<5.0	<5.0	<5.0
	04/01/02	**640**	<1.0	<1.0	100	44	144	<1.0	<1.0	<1.0
	01/03/02	**340**	<5.0	<5.0	50	31	81	<5.0	<5.0	<5.0
	10/02/01	**320**	<5.0	<5.0	44	35	79	<5.0	<5.0	<5.0
	05/29/01	**330**	<1.0	1.2	21	17	39.2	<1.0	<1.0	<1.0
	07/27/00	**89**	<1.0	1.8	20	12	33.8	<1.0	<1.0	<1.0
	04/26/00	**142**	<1.0	1.4	14	7.1	22.5	<1.0	<1.0	<1.0
	01/30/00	**80**	<5.0	<5.0	20	10	30.0	<5.0	<5.0	<5.0
	03/07/96	N/A	9.5	<1.0	99	81	189.5	NA	NA	NA
	12/05/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA

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SUMMARY OF WATER SAMPLE ANALYTICAL TEST RESULTS

TABLE 3

		*NAPHTHALENE (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENE (PPB)	**TOTAL BTEX (PPB)	MTBE (PPB)	EDB (PPB)	EDC (PPB)
NMWQCC Regulatory Limits		**30**	**10**	**750**	**750**	**620**		**100**	**0.1**	**10**
MONITOR WELL	DATE									
VP-6	01/10/03	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	09/24/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	07/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	04/01/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	01/03/02	<10.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	10/02/01	<15.0	<1.0	<1.0	<1.0	<3.0	<6.0	<1.0	<1.0	<1.0
	05/29/01	<6.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	02/06/01	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	07/27/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	04/26/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	01/30/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	03/07/95	N/A	0.8	<1.0	<1.0	2.1	2.9	NA	NA	NA
	09/07/94	N/A	0.8	1.3	<1.0	<2.0	2.1	NA	NA	NA
VP-7	01/30/00	<2.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0
	12/05/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA
	06/06/95	N/A	<0.5	<1.0	<1.0	<2.0	<4.5	NA	NA	NA

**Total BTEX = total benzene, toluene, ethylbenzene, and xylenes
NMWQCC = New Mexico Water Quality Control Commission
MTBE = Methyl-tert-butyl ether
EDB = 1,2,-Dibromethane
EDC = 1,2-Dichloroethane
PPB = parts per billion
N/A = Not Available
N/S = Not sampled due to presence of sheen.
<0.010* = EDB by EPA Method 504.1
* Naphthalene = napthalene only by EPA Method 8310 for 01/30/ 00 and 04/26/00
* Naphthalene = napthalene, 1-methylnaphthalene, 2-methylnaphthalene by EPA Method 8260 Extended beginning 07/27/00

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WESTERN TECHNOLOGIES INC.
SUMMARY OF DISSOLVED METALS EPA METHOD 6010
ANALYTICAL TEST RESULTS
TABLE 6

MONITOR WELL	DATE	LEAD (Mg/L)	IRON (Mg/L)	MANGANESE (Mg/L)
NMWQCC Regulatory Limits		**0.050***	**1.0****	**0.2****
MW-4	05/29/01 02/06/01	<0.005 <0.005	0.17 1.19	1.97 1.76
MW-8	05/29/01 02/06/01	<0.005 <0.005	1.12 0.68	0.39 0.38
VP-1	05/29/01 02/06/01	<0.005 <0.005	1.72 2.07	1.67 1.07
VP-2	05/29/01 02/06/01	<0.005 <0.005	0.83 0.70	1.21 0.92
VP-5	05/29/01	<0.005	3.42	0.53
VP-6	05/29/01 02/06/01	<0.005 <0.005	0.67 0.52	0.62 0.45

NMWQCC = New Mexico Water Quality Control Commission
* = NMWQCC Regulations 20.6.2.3103.A. Human Health Standards
** = NMWQCC Regulations 20.6.2.3103.B. Other Standards for Domestic Water Supply

NEW MEXICO ENVIRONMENT DEPARTMENT
BARELAS BRIDGE SITE
ALBUQUERQUE, NEW MEXICO
APRIL 2014

Table 1
Summary of Groundwater Elevation Data
(All data reported in feet)

Well No.	Monitoring Date	Top of Casing Elevation	Depth to Bottom	Depth to Water	Groundwater Elevation
MW-4	10/4/2006	4943.23	7.5	8.02	4935.21
	5/8/2009			7.67	4935.56
	8/13/2011			NM	NM
	4/2/2013			7.91	4935.32
	1/30/2014			8.20	4935.03
	4/9/2014			8.16	4935.07
MW-7	10/4/2006	4942.94	21.3	8.20	4934.74
	5/8/2009			7.81	4935.13
	8/13/2011			7.91	4935.03
	4/2/2013			7.99	4934.95
MW-8	10/4/2006	4944.59	12.8	9.30	4935.29
	5/8/2009			8.96	4935.63
	8/13/2011			9.12	4935.47
	4/2/2013			9.23	4935.36
	1/30/2014			9.50	4935.09
	4/9/2014			9.47	4935.12
MW-9	10/4/2006	4943.98	19.2	8.83	4935.15
	5/8/2009			8.48	4935.50
	8/13/2011			8.63	4935.35
	4/2/2013			8.71	4935.27
	1/30/2014			8.98	4935.00
	4/9/2014			8.94	4935.04
VP-2	10/4/2006	4943.73	12.5	8.43	4935.30
	5/8/2009			8.07	4935.66
	8/13/2011			7.23	4936.50
	4/2/2013			8.33	4935.40
	1/30/2014			8.61	4935.12
	4/9/2014			8.57	4935.16
VP-5	10/4/2006	4943.52	11.9	8.10	4935.42
	5/8/2009			7.78	4935.74
	8/13/2011			7.97	4935.55
	4/2/2013			8.06	4935.46
	1/30/2014			8.30	4935.22
	4/9/2014			8.25	4935.27

2006-2009 Data provided by the NMED
NM = Not measured (tree roots obstructing inner well)

Table 2
Summary of Groundwater Chemistry Data
(Concentrations in micrograms per liter [µg/l or ppb])

Well No.	Sample Date	Benzene	Toulene	Ethylbenzene	Total Xylenes	MTBE	NAPH
MW-4	10/4/2006	<1.0	<1.0	<1.0	<3.0	<1.5	<10
	5/8/2009	<1.0	<1.0	<1.0	<1.5	<1.0	<10
	8/13/2011	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	4/2/2013	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	1/30/2014	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	4/9/2014	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
MW-7	10/4/2006	<1.0	<1.0	<1.0	<3.0	<1.5	<10
	5/8/2009	<1.0	<1.0	<1.0	<1.5	<1.0	<10
	8/13/2011	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
MW-8	10/4/2006	<2.0	<2.0	34	18	<3.0	210
	5/8/2009	<1.0	<1.0	24	8.0	<1.0	92
	8/13/2011	<10	<10	32	<15	<10	72
	4/2/2013	<5.0	<5.0	31	10	<5.0	149
	1/30/2014	1.3	1.4	33	8.2	<1.0	134
	4/9/2014	<1.0	1.2	32	7.3	<1.0	113
MW-9	10/4/2006	62	44	11	42	<1.5	6.9
	5/8/2009	12	7.1	45	68	<1.0	77
	8/13/2011	750	150	270	880	12	93
	4/2/2013	320	34	<10	150	<10	<40
	1/30/2014	190	59	200	340	<2.0	67
	4/9/2014	100	49	72	110	<1.0	32.4
VP-2	10/4/2006	<1.0	<1.0	<1.0	<3.0	<1.5	<10
	5/8/2009	<1.0	<1.0	1.3	1.6	<1.0	37.3
	8/13/2011	<1.0	<1.0	2.1	2.4	<1.0	78
	4/2/2013	<2.0	<2.0	<2.0	<3.0	<2.0	34.7
	1/30/2014	<1.0	<1.0	<1.0	<1.5	<1.0	2.2
	4/9/2014	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0

Table 2
Summary of Groundwater Chemistry Data
(Concentrations in micrograms per liter [µg/l or ppb])

Well No.	Sample Date	Benzene	Toulene	Ethylbenzene	Total Xylenes	MTBE	NAPH
VP-5	10/4/2006	<10	<10	21	<30	<15	430
	5/8/2009	<5.0	<5.0	7.1	<7.5	<5.0	386
	8/13/2011	1.4	1.8	12	2.4	<1.0	469
	4/2/2013	<2.0	<2.0	7.7	<3.0	<2.0	270
	1/30/2014	<1.0	1.0	3.0	<1.5	<1.0	187
	4/9/2014	<1.0	1.2	4.5	<1.5	<1.0	217
NMWQCC/NMEIB Standard		10	750	750	620	100	30

2006-2009 Data provided by the NMED

NMWQCC: New Mexico Water Quality Control Commission
NMEIB: New Mexico Environmental Improvement Board
MTBE: Methyl t-butyl ether
NAPH: Total Naphthalenes
Analysis by EPA Test Method 8260.
Shaded cells represent concentrations exceeding applicable standard for most recent event.

SUMMARY OF WELL COMPLETION INFORMATION
BARELAS BRIDGE GWPA SITE
800 BRIDGE BLVD., S.W.
ALBUQUERQUE, NEW MEXICO

WELL ID	DATE INSTALLED	MP OR TOC ELEV. (FTAMSL)	TOTAL DEPTH OF WELL (FT)	WELL DIAMETER/ CONSTRUCTION	SCREENED INTERVAL/ SLOT SIZE	SCREEN LENGTH (FT)	STATUS/ COMMENTS
MW-1	02/07/90	4942.94	17	2" PVC	2'-17'/0.020"	15	
MW-2	02/07/90	4942.36	23	2" PVC	3'-18'/0.020"	15	
MW-3	02/07/90	4941.97	22.5	2" PVC	2.5'-17.5'/0.020"	15	
MW-4	02/08/90	4943.86	23.5	2" PVC	3.5'-18.5'/0.020"	15	
MW-5	10/16/90	4942.09	21.5	2" PVC	7'-22'/0.010"	15	
MW-6	10/16/90	4943.18	22	2" PVC	7'-22'/0.010"	15	
MW-7	10/18/90	4942.94	22	2" PVC	7'-22'/0.010"	15	
MW-8	10/18/90	4944.57	13	2" STEEL	8'-13'/0.010"	5	
MW-9	08/20/92	--	20.0	2" PVC	5'-20'/0.020"	15	
VP-1	08/19/92	--	14.5	4" PVC	9.5'-14.5'/0.020" 4.5'-9.5'/0.040"	10	Vapor extraction well
AS-1	08/19/92	--	22.2	2" PVC	20'-22'/0.010"	2	Air sparge well
PR-2	08/18/92	--	9	2" PVC	3'-5'/0.020" 7'-9'/0.020"	2'/2'	Nested vadose monitor probe
PR-3	08/18/92	--	9.3	2" PVC	3'-5'/0.020" 7'-9'/0.020"	2'/2'	Nested vadose monitor probe

NMED/BB
bb.rap

GROUNDWATER TECHNOLOGY

APPENDIX D

Laboratory Analytical Report – Groundwater

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 03, 2015

Eileen Marcillo

Intera, Inc.
6000 Uptown Boulevard, NE Suite 220
Albuquerque, NM 87110
TEL: (603) 969-4070
FAX (505) 246-2600

RE: Barelas Bridge OrderNo.: 1505875

Dear Eileen Marcillo:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/19/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-8
Project: Barelas Bridge **Collection Date:** 5/19/2015 10:55:00 AM
Lab ID: 1505875-001 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.073	0.020		mg/L	1	5/26/2015 11:03:47 AM	R26400
Lead	ND	0.0050		mg/L	1	5/26/2015 11:03:47 AM	R26400
Manganese	0.28	0.0020		mg/L	1	5/26/2015 11:03:47 AM	R26400
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.010		µg/L	1	5/21/2015 11:41:01 AM	19335
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Toluene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Ethylbenzene	22	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Naphthalene	37	2.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1-Methylnaphthalene	17	4.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
2-Methylnaphthalene	28	4.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Acetone	ND	10		µg/L	1	5/22/2015 3:45:43 PM	R26391
Bromobenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Bromoform	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Bromomethane	ND	3.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
2-Butanone	ND	10		µg/L	1	5/22/2015 3:45:43 PM	R26391
Carbon disulfide	ND	10		µg/L	1	5/22/2015 3:45:43 PM	R26391
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Chlorobenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Chloroethane	ND	2.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Chloroform	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Chloromethane	ND	3.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Dibromomethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-8
Project: Barelas Bridge **Collection Date:** 5/19/2015 10:55:00 AM
Lab ID: 1505875-001 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
2-Hexanone	ND	10		µg/L	1	5/22/2015 3:45:43 PM	R26391
Isopropylbenzene	13	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2015 3:45:43 PM	R26391
Methylene Chloride	ND	3.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
n-Butylbenzene	4.2	3.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
n-Propylbenzene	23	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
sec-Butylbenzene	2.5	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Styrene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Vinyl chloride	ND	1.0		µg/L	1	5/22/2015 3:45:43 PM	R26391
Xylenes, Total	4.4	1.5		µg/L	1	5/22/2015 3:45:43 PM	R26391
Surr: 1,2-Dichloroethane-d4	121	70-130		%REC	1	5/22/2015 3:45:43 PM	R26391
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	5/22/2015 3:45:43 PM	R26391
Surr: Dibromofluoromethane	102	70-130		%REC	1	5/22/2015 3:45:43 PM	R26391
Surr: Toluene-d8	101	70-130		%REC	1	5/22/2015 3:45:43 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** VP-5
Project: Barelas Bridge **Collection Date:** 5/19/2015 11:40:00 AM
Lab ID: 1505875-002 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Iron	1.2	0.10		mg/L	5	5/26/2015 12:55:31 PM	R26400
Lead	0.0061	0.0050		mg/L	1	5/26/2015 11:05:38 AM	R26400
Manganese	0.12	0.0020		mg/L	1	5/26/2015 11:05:38 AM	R26400
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.010		µg/L	1	5/21/2015 11:54:42 AM	19335
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Toluene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Ethylbenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Naphthalene	17	10		µg/L	5	5/22/2015 5:08:17 PM	R26391
1-Methylnaphthalene	66	20		µg/L	5	5/22/2015 5:08:17 PM	R26391
2-Methylnaphthalene	120	20		µg/L	5	5/22/2015 5:08:17 PM	R26391
Acetone	ND	50		µg/L	5	5/22/2015 5:08:17 PM	R26391
Bromobenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Bromodichloromethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Bromoform	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Bromomethane	ND	15		µg/L	5	5/22/2015 5:08:17 PM	R26391
2-Butanone	ND	50		µg/L	5	5/22/2015 5:08:17 PM	R26391
Carbon disulfide	ND	50		µg/L	5	5/22/2015 5:08:17 PM	R26391
Carbon Tetrachloride	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Chlorobenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Chloroethane	ND	10		µg/L	5	5/22/2015 5:08:17 PM	R26391
Chloroform	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Chloromethane	ND	15		µg/L	5	5/22/2015 5:08:17 PM	R26391
2-Chlorotoluene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
4-Chlorotoluene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
cis-1,2-DCE	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	5/22/2015 5:08:17 PM	R26391
Dibromochloromethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Dibromomethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2-Dichlorobenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,3-Dichlorobenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** VP-5
Project: Barelas Bridge **Collection Date:** 5/19/2015 11:40:00 AM
Lab ID: 1505875-002 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,4-Dichlorobenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Dichlorodifluoromethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,1-Dichloroethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,1-Dichloroethene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2-Dichloropropane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,3-Dichloropropane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
2,2-Dichloropropane	ND	10		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,1-Dichloropropene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Hexachlorobutadiene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
2-Hexanone	ND	50		µg/L	5	5/22/2015 5:08:17 PM	R26391
Isopropylbenzene	27	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
4-Isopropyltoluene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
4-Methyl-2-pentanone	ND	50		µg/L	5	5/22/2015 5:08:17 PM	R26391
Methylene Chloride	ND	15		µg/L	5	5/22/2015 5:08:17 PM	R26391
n-Butylbenzene	ND	15		µg/L	5	5/22/2015 5:08:17 PM	R26391
n-Propylbenzene	82	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
sec-Butylbenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Styrene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
tert-Butylbenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	5/22/2015 5:08:17 PM	R26391
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
trans-1,2-DCE	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,1,1-Trichloroethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,1,2-Trichloroethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Trichloroethene (TCE)	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Trichlorofluoromethane	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
1,2,3-Trichloropropane	ND	10		µg/L	5	5/22/2015 5:08:17 PM	R26391
Vinyl chloride	ND	5.0		µg/L	5	5/22/2015 5:08:17 PM	R26391
Xylenes, Total	ND	7.5		µg/L	5	5/22/2015 5:08:17 PM	R26391
Surr: 1,2-Dichloroethane-d4	115	70-130		%REC	5	5/22/2015 5:08:17 PM	R26391
Surr: 4-Bromofluorobenzene	103	70-130		%REC	5	5/22/2015 5:08:17 PM	R26391
Surr: Dibromofluoromethane	105	70-130		%REC	5	5/22/2015 5:08:17 PM	R26391
Surr: Toluene-d8	101	70-130		%REC	5	5/22/2015 5:08:17 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-9
Project: Barelas Bridge **Collection Date:** 5/19/2015 1:00:00 PM
Lab ID: 1505875-003 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.22	0.020		mg/L	1	5/26/2015 11:07:31 AM	R26400
Lead	ND	0.0050		mg/L	1	5/26/2015 11:07:31 AM	R26400
Manganese	0.70	0.0020		mg/L	1	5/26/2015 11:07:31 AM	R26400
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.010		µg/L	1	5/21/2015 12:08:30 PM	19335
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	21	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Toluene	3.0	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Ethylbenzene	18	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2,4-Trimethylbenzene	3.8	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Naphthalene	2.7	2.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Acetone	ND	10		µg/L	1	5/22/2015 5:35:42 PM	R26391
Bromobenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Bromoform	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Bromomethane	ND	3.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
2-Butanone	ND	10		µg/L	1	5/22/2015 5:35:42 PM	R26391
Carbon disulfide	ND	10		µg/L	1	5/22/2015 5:35:42 PM	R26391
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Chlorobenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Chloroethane	ND	2.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Chloroform	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Chloromethane	ND	3.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Dibromomethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-9
Project: Barelas Bridge **Collection Date:** 5/19/2015 1:00:00 PM
Lab ID: 1505875-003 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
2-Hexanone	ND	10		µg/L	1	5/22/2015 5:35:42 PM	R26391
Isopropylbenzene	1.4	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2015 5:35:42 PM	R26391
Methylene Chloride	ND	3.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
n-Propylbenzene	1.5	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Styrene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Vinyl chloride	ND	1.0		µg/L	1	5/22/2015 5:35:42 PM	R26391
Xylenes, Total	18	1.5		µg/L	1	5/22/2015 5:35:42 PM	R26391
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	5/22/2015 5:35:42 PM	R26391
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	5/22/2015 5:35:42 PM	R26391
Surr: Dibromofluoromethane	104	70-130		%REC	1	5/22/2015 5:35:42 PM	R26391
Surr: Toluene-d8	99.5	70-130		%REC	1	5/22/2015 5:35:42 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-4
Project: Barelas Bridge **Collection Date:** 5/19/2015 1:50:00 PM
Lab ID: 1505875-004 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.71	0.020		mg/L	1	5/26/2015 11:16:17 AM	R26400
Lead	ND	0.0050		mg/L	1	5/26/2015 11:16:17 AM	R26400
Manganese	0.74	0.0020		mg/L	1	5/26/2015 11:16:17 AM	R26400
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.010		µg/L	1	5/21/2015 12:22:20 PM	19335
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Toluene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Ethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Naphthalene	8.1	2.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Acetone	ND	10		µg/L	1	5/22/2015 6:03:07 PM	R26391
Bromobenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Bromoform	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Bromomethane	ND	3.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
2-Butanone	ND	10		µg/L	1	5/22/2015 6:03:07 PM	R26391
Carbon disulfide	ND	10		µg/L	1	5/22/2015 6:03:07 PM	R26391
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Chlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Chloroethane	ND	2.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Chloroform	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Chloromethane	ND	3.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Dibromomethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-4
Project: Barelas Bridge **Collection Date:** 5/19/2015 1:50:00 PM
Lab ID: 1505875-004 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
2-Hexanone	ND	10		µg/L	1	5/22/2015 6:03:07 PM	R26391
Isopropylbenzene	8.3	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2015 6:03:07 PM	R26391
Methylene Chloride	ND	3.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
n-Propylbenzene	7.2	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Styrene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Vinyl chloride	ND	1.0		µg/L	1	5/22/2015 6:03:07 PM	R26391
Xylenes, Total	ND	1.5		µg/L	1	5/22/2015 6:03:07 PM	R26391
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	5/22/2015 6:03:07 PM	R26391
Surr: 4-Bromofluorobenzene	109	70-130		%REC	1	5/22/2015 6:03:07 PM	R26391
Surr: Dibromofluoromethane	101	70-130		%REC	1	5/22/2015 6:03:07 PM	R26391
Surr: Toluene-d8	103	70-130		%REC	1	5/22/2015 6:03:07 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** VP-2
Project: Barelas Bridge **Collection Date:** 5/19/2015 2:40:00 PM
Lab ID: 1505875-005 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.070	0.020		mg/L	1	5/26/2015 11:18:09 AM	R26400
Lead	ND	0.0050		mg/L	1	5/26/2015 11:18:09 AM	R26400
Manganese	0.46	0.0020		mg/L	1	5/26/2015 11:18:09 AM	R26400
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.010		µg/L	1	5/21/2015 1:03:33 PM	19335
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Toluene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Ethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Naphthalene	ND	2.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Acetone	ND	10		µg/L	1	5/22/2015 6:30:37 PM	R26391
Bromobenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Bromoform	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Bromomethane	ND	3.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
2-Butanone	ND	10		µg/L	1	5/22/2015 6:30:37 PM	R26391
Carbon disulfide	ND	10		µg/L	1	5/22/2015 6:30:37 PM	R26391
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Chlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Chloroethane	ND	2.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Chloroform	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Chloromethane	ND	3.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Dibromomethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** VP-2
Project: Barelas Bridge **Collection Date:** 5/19/2015 2:40:00 PM
Lab ID: 1505875-005 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
2-Hexanone	ND	10		µg/L	1	5/22/2015 6:30:37 PM	R26391
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2015 6:30:37 PM	R26391
Methylene Chloride	ND	3.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Styrene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Vinyl chloride	ND	1.0		µg/L	1	5/22/2015 6:30:37 PM	R26391
Xylenes, Total	ND	1.5		µg/L	1	5/22/2015 6:30:37 PM	R26391
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	5/22/2015 6:30:37 PM	R26391
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	5/22/2015 6:30:37 PM	R26391
Surr: Dibromofluoromethane	100	70-130		%REC	1	5/22/2015 6:30:37 PM	R26391
Surr: Toluene-d8	99.7	70-130		%REC	1	5/22/2015 6:30:37 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-7
Project: Barelas Bridge **Collection Date:** 5/19/2015 3:38:00 PM
Lab ID: 1505875-006 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.29	0.020		mg/L	1	5/26/2015 11:19:59 AM	R26400
Lead	ND	0.0050		mg/L	1	5/26/2015 11:19:59 AM	R26400
Manganese	0.61	0.0020		mg/L	1	5/26/2015 11:19:59 AM	R26400
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.010		µg/L	1	5/21/2015 1:31:07 PM	19335
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Toluene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Ethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Naphthalene	ND	2.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Acetone	ND	10		µg/L	1	5/22/2015 6:58:04 PM	R26391
Bromobenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Bromoform	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Bromomethane	ND	3.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
2-Butanone	ND	10		µg/L	1	5/22/2015 6:58:04 PM	R26391
Carbon disulfide	ND	10		µg/L	1	5/22/2015 6:58:04 PM	R26391
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Chlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Chloroethane	ND	2.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Chloroform	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Chloromethane	ND	3.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Dibromomethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-7
Project: Barelas Bridge **Collection Date:** 5/19/2015 3:38:00 PM
Lab ID: 1505875-006 **Matrix:** AQUEOUS **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
2-Hexanone	ND	10		µg/L	1	5/22/2015 6:58:04 PM	R26391
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2015 6:58:04 PM	R26391
Methylene Chloride	ND	3.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Styrene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Vinyl chloride	ND	1.0		µg/L	1	5/22/2015 6:58:04 PM	R26391
Xylenes, Total	ND	1.5		µg/L	1	5/22/2015 6:58:04 PM	R26391
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	5/22/2015 6:58:04 PM	R26391
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	5/22/2015 6:58:04 PM	R26391
Surr: Dibromofluoromethane	104	70-130		%REC	1	5/22/2015 6:58:04 PM	R26391
Surr: Toluene-d8	100	70-130		%REC	1	5/22/2015 6:58:04 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** Trip Blank
Project: Barelas Bridge **Collection Date:**
Lab ID: 1505875-007 **Matrix:** TRIP BLANK **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB						Analyst: **JME**	
1,2-Dibromoethane	ND	0.010		µg/L	1	5/21/2015 1:45:00 PM	19335
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Toluene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Ethylbenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Naphthalene	ND	2.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Acetone	ND	10		µg/L	1	5/22/2015 7:25:41 PM	R26391
Bromobenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Bromoform	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Bromomethane	ND	3.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
2-Butanone	ND	10		µg/L	1	5/22/2015 7:25:41 PM	R26391
Carbon disulfide	ND	10		µg/L	1	5/22/2015 7:25:41 PM	R26391
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Chlorobenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Chloroethane	ND	2.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Chloroform	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Chloromethane	ND	3.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Dibromomethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** Trip Blank
Project: Barelas Bridge **Collection Date:**
Lab ID: 1505875-007 **Matrix:** TRIP BLANK **Received Date:** 5/19/2015 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
2-Hexanone	ND	10		µg/L	1	5/22/2015 7:25:41 PM	R26391
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2015 7:25:41 PM	R26391
Methylene Chloride	ND	3.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Styrene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Vinyl chloride	ND	1.0		µg/L	1	5/22/2015 7:25:41 PM	R26391
Xylenes, Total	ND	1.5		µg/L	1	5/22/2015 7:25:41 PM	R26391
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	5/22/2015 7:25:41 PM	R26391
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	5/22/2015 7:25:41 PM	R26391
Surr: Dibromofluoromethane	107	70-130		%REC	1	5/22/2015 7:25:41 PM	R26391
Surr: Toluene-d8	100	70-130		%REC	1	5/22/2015 7:25:41 PM	R26391

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID	**MB-19335**	SampType: **MBLK**		TestCode: **EPA Method 8011/504.1: EDB**					
Client ID:	**PBW**	Batch ID: **19335**		RunNo: **26361**					
Prep Date:	**5/21/2015**	Analysis Date: **5/21/2015**		SeqNo: **783443**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID	**LCS-19335**	SampType: **LCS**		TestCode: **EPA Method 8011/504.1: EDB**					
Client ID:	**LCSW**	Batch ID: **19335**		RunNo: **26361**					
Prep Date:	**5/21/2015**	Analysis Date: **5/21/2015**		SeqNo: **783444**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	121	70	130			

Sample ID	**1505875-004BMS**	SampType: **MS**		TestCode: **EPA Method 8011/504.1: EDB**					
Client ID:	**MW-4**	Batch ID: **19335**		RunNo: **26361**					
Prep Date:	**5/21/2015**	Analysis Date: **5/21/2015**		SeqNo: **783450**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.13	0.010	0.1000	0	126	48.9	131			

Sample ID	**1505875-004BMSD**	SampType: **MSD**		TestCode: **EPA Method 8011/504.1: EDB**					
Client ID:	**MW-4**	Batch ID: **19335**		RunNo: **26361**					
Prep Date:	**5/21/2015**	Analysis Date: **5/21/2015**		SeqNo: **783451**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.12	0.010	0.1000	0	125	48.9	131	0.797	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R26391**	RunNo: **26391**	
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784294**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784294** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784296** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Chlorobenzene	21	1.0	20.00	0	106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784296** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	116	75.6	144			
Trichloroethene (TCE)	19	1.0	20.00	0	92.8	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.7		10.00		96.9	70	130			

Sample ID **1505875-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-8**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784303** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	0	122	70	130			
Toluene	22	1.0	20.00	0.6602	109	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	122	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.3	70	130			
Surr: 1,2-Dichloroethane-d4	13		10.00		131	70	130			S
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.7		10.00		96.5	70	130			

Sample ID **1505875-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-8**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784304** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	0	119	70	130	1.85	20	
Toluene	22	1.0	20.00	0.6602	106	70	130	2.33	20	
Chlorobenzene	21	1.0	20.00	0	107	70	130	1.97	20	
1,1-Dichloroethene	24	1.0	20.00	0	120	70	130	1.36	20	
Trichloroethene (TCE)	20	1.0	20.00	0	98.7	70	130	0.639	20	
Surr: 1,2-Dichloroethane-d4	12		10.00		124	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		110	70	130	0	0	
Surr: Toluene-d8	9.8		10.00		98.3	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784329** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784329** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784330** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	70	130			
Toluene	22	1.0	20.00	0	112	70	130			
Chlorobenzene	22	1.0	20.00	0	110	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R26391**	RunNo: **26391**
Prep Date:	Analysis Date: **5/22/2015**	SeqNo: **784330** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	24	1.0	20.00	0	119	75.6	144			
Trichloroethene (TCE)	20	1.0	20.00	0	99.8	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505875**

03-Jun-15

Client: Intera, Inc.

Project: Barelas Bridge

Sample ID	**MB**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Dissolved Metals**					
Client ID:	**PBW**	Batch ID:	**R26400**	RunNo:	**26400**					
Prep Date:		Analysis Date:	**5/26/2015**	SeqNo:	**784514**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								

Sample ID	**LCS**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Dissolved Metals**					
Client ID:	**LCSW**	Batch ID:	**R26400**	RunNo:	**26400**					
Prep Date:		Analysis Date:	**5/26/2015**	SeqNo:	**784515**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.47	0.020	0.5000	0	93.6	80	120			
Lead	0.47	0.0050	0.5000	0	93.9	80	120			
Manganese	0.46	0.0020	0.5000	0	92.7	80	120			

Sample ID	**MB**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Dissolved Metals**					
Client ID:	**PBW**	Batch ID:	**R26400**	RunNo:	**26400**					
Prep Date:		Analysis Date:	**5/26/2015**	SeqNo:	**784516**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								

Sample ID	**LCS**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Dissolved Metals**					
Client ID:	**LCSW**	Batch ID:	**R26400**	RunNo:	**26400**					
Prep Date:		Analysis Date:	**5/26/2015**	SeqNo:	**784517**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.46	0.020	0.5000	0	91.5	80	120			
Lead	0.47	0.0050	0.5000	0	94.0	80	120			
Manganese	0.47	0.0020	0.5000	0	93.6	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: INT | Work Order Number: 1505875 | RcptNo: 1

Received by/date: CS 05/19/15

Logged By: Celina Sessa 5/19/2015 4:20:00 PM Celina Sessa

Completed By: Celina Sessa 5/19/2015 4:40:11 PM Celina Sessa

Reviewed By: IO 05/19/15

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
Samples were collected the same day and chilled.			
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 6 (<2 or >12 unless noted)

Adjusted? No

Checked by: JA

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	11.8	Good	Not Present			

Chain-of-Custody Record

Client: INTERA INC
Eileen Marcillo
Mailing Address: 6000 Uptown Blvd NE
St 220 ABQ 87106
Phone #: 505 246 1600 / 505 428 0046
email or Fax#: emarcillo@intera.com
QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☑ EDD (Type) excel

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Barelas Bridge
Project #: NMENV.M002.PSTB
Project Manager: Eileen Marcillo
Sampler: AKA
On Ice: ☒ Yes ☐ No
Sample Temperature: 11.8°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1505875	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Diss Fe, Pb, Mn				Air Bubbles (Y or N)
5/19/15	1055	AQ	MW-8	3x VOA, 1x 1liter, 1x 125 Plastic	HCl2, Na2SO3, HNO3	-001					X					X		X				
5/19/15	1140		VP-5			-002					X					X		X				
5/19/15	1300		MW-9			-003					X					X		X				
5/19/15	1350		MW-4			-004					X					X		X				
5/19/15	1440		VP-2			-005					X					X		X				
5/19/15	1538	↓	MW-27 per Eileen via 05/20/15	↓	↓	-006					X					X		X				
		AQ	TRIP Blank			-007					X											

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/19/15	1620		Celina Sanza	05/19/15	1620
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:
Dissolved Metals 200.7
Iron, Manganese and Lead
Copy aarrosa@intera.com with results.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.