

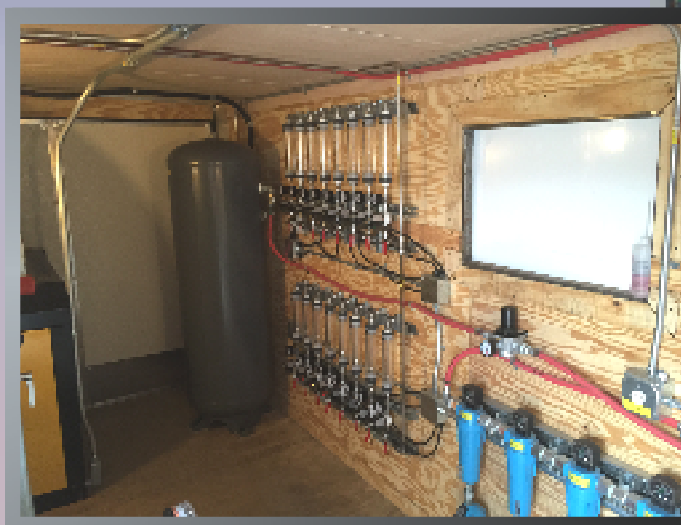


BROWN ENVIRONMENTAL, INC.

P.O. BOX 886 PLACITAS, NM 87043

13TH QUARTER PRODUCT RECOVERY SYSTEM O&M AND GROUNDWATER SAMPLING REPORT

**FORMER HIGHWAY 70 TRUCKSTOP
1601 W. 2ND STREET
PORTALES, NEW MEXICO**



Submitted To:

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13th Quarter Product Recovery System
Operation and Maintenance and
Groundwater Sampling Report
9/15

Former Highway 70 Truckstop

1601 West 2nd Street
Portales, New Mexico

BEI Job Number 1012
WPID #17030
DID#17030-8
Facility No. 28532
RID #2023

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1.0 INTRODUCTION

1.1 BACKGROUND

On behalf of O&J Realty, Inc. (O&J), Brown Environmental, Inc. (BEI) is performing tasks associated with the operation and maintenance (O&M) of the multi-phase vacuum extraction (MPVE)-assisted product recovery system at the former Highway 70 Truck stop located at 1601 West 2nd Street in Portales, New Mexico (the Site) (Figure 1). The product recovery system has been operational since December 2011. This quarterly O&M report provides documentation of Site activities conducted during the 13th quarter of O&M taking place between April 16 and August 21, 2015. A detailed Site base map highlighting the location of the recovery system, buildings, monitor and recovery wells, utilities, and other important Site features is provided in Figure 2.

The former Highway 70 Site is located at an elevation of approximately 4,009 feet above mean sea level in Portales, New Mexico. Two vacant buildings were formerly located at the Site but were demolished by the former property owner during and immediately following construction of the product recovery system. The former dispensers and four underground gasoline and diesel-containing storage tanks had been removed prior to that. Most of the Site is paved with asphalt or concrete in moderate to poor condition.

Eastern New Mexico University (ENMU) dominates the surrounding properties; a large ENMU parking lot is present east of the Site. Many of the downgradient monitor wells installed in the site vicinity are located in this parking lot. To the southwest is the Tai City Restaurant. West and north of the Site are Highway 70 and the Southwestern Railroad right-of-way. South of the Site is an alley containing many utilities and Eastern Plaza, a small strip mall.

Soil and groundwater contamination were first identified at the Site in 1993 and a long history of environmental activities ensued. Between 1994 and 2008, Atkins Engineering Associates, Inc. (Atkins) advanced and sampled a series of monitor wells and soil borings and installed and operated a soil vacuum extraction (SVE) and product recovery system at the Site. The Atkins remediation system was reportedly operated on a nearly continuous basis between 1994 and 2004. However, high levels of soil contamination and both dissolved-phase and LNAPL groundwater contamination were still present following these efforts.

BEI was retained by O&J in September 2008. BEI conducted a site inspection on December 1, 2008 and found the existing monitor well network to be in poor condition and the treatment

system to be in a state of disrepair. Between 2009 and 2010, BEI advanced and sampled 14 new monitor/recovery wells, plugged and abandoned 18 old monitor/remediation wells, conducted several site-wide groundwater-sampling events and conducted short-term product recovery and SVE pilot tests. LNAPL was identified in four wells (BVE-1i, BVE-2i, BVE-3i, and BVE-7i) at thicknesses between 0.75 and 3.45 feet during the pre-system startup sampling in November 2011.

During the 5th quarter of O&M, the system was expanded to include 3 additional recovery wells, (BVE-9i, BVE-10i, and BVE-11i) as shown in Figure 2. Additionally, 6 old monitor wells (MW-11, MW-14, MW-17, MW-18, MW-19, and MW-20) that had been dry for an extended period of time were plugged and abandoned and 7 other wells (MW-24d, MW-25d, MW-26d, MW-27d, MW-28d, MW-29d, and BMW-22i) had damaged wellheads that were removed and replaced.

In late 2014, a significant and long planned expansion of the recovery system was completed to include the use of air ozone injection (AOI) in a series of 14 newly installed AOI wells (Figure 2). The AOI treatment system upgrade was completed on December 17, 2014 and has been operated in conjunction with the MPVE/SVE product recovery system since that time.

1.2 HYDROGEOLOGY

Site geology, as observed in retrieved split-spoon samples and soil cuttings, can be subdivided into seven primary Lithologic Units based on grain size and areal extent. Geology in the upper approximately 94 feet of sediments consists of three interbedded sequences of alternating fine-grained clay-rich zones and coarser-grained sand-rich zones. Additionally, an extensive approximately 15-foot thick pedogenic carbonate horizon is present at the Site just below the land surface. In general, discounting local variations, the Lower Sand and Gravel Zone is the most permeable unit and the Lower Clay Zone is the least permeable unit at the Site. Although facies changes were observed during drilling, primary lithologic units were found to be laterally continuous across most of the Site. Groundwater saturated conditions at the Site are first encountered at a depth of approximately 82 to 84 feet bsg. The aquifer is unconfined in nature based on observed responses in wells during drilling and the coarse-grained nature of saturated sediments. Based on the water level measurements collected during the most recent August 2015 sampling event, shallow groundwater flow was calculated to be easterly to southeasterly at an average gradient of approximately 0.003 to 0.004 feet per foot (Figure 3). Groundwater levels declined ~0.75 feet in all wells vs. the previous April 2015 gauging event. Wells BVE-3i and MW-28d are dry as a result.

1.3 PRE-REMEDIAL GROUNDWATER HYDROCARBON DISTRIBUTION

Groundwater quality and LNAPL thickness data from the Site monitor wells collected immediately prior to system startup is presented on Figure 4 and detailed in previously submitted reports (BEI, 2011). Dissolved-phase BTEX, 1,2 dichloroethane (EDC), total naphthalenes (NAPH), and methyl tertiary butyl-ether (MTBE) were observed in select wells at levels exceeding New Mexico Water Quality Commission (WQCC) standards. The dissolved-phase benzene plume exceeding WQCC standards extended across an area approximately 420 feet long by 210 feet wide. A general expansion of the dissolved-phase BTEX plume was observed in several downgradient wells during groundwater sampling events conducted prior to system startup.

Historical LNAPL trending during this same interval showed a distinct expansion of the LNAPL plume combined with increases in product thicknesses in wells over time. This was apparently in response to declining groundwater levels exposing previously submerged hydrocarbon contamination. LNAPL was not identified in Site wells during the March 2009 BEI sampling event, however during the April 2009 pilot testing event, LNAPL was present in wells BVE-1i, BVE-3i, and BVE-7i at thicknesses of 0.23, 0.005 and 0.12 feet, respectively. During the September 2010 sampling event the LNAPL plume had expanded to encompass four wells (BVE-1i, BVE-2i, BVE-3i, and BVE-7i) at thicknesses ranging between 1.02 and 2.62 feet (Table 1). Additionally, well BVE-5i exhibited a spotty hydrocarbon sheen, which bailed off during purging of the well. During the November 2011 sampling event conducted prior to system startup, The LNAPL plume had grown to approximately 180 feet long by 70 feet wide with thicknesses in 4-inch diameter wells up to 3.45 feet.

Inorganic groundwater quality samples collected from monitor wells BVE-1i and BVE-4i indicate the presence of moderate levels of inorganic constituents. The primary cations identified in samples collected from the Site are sodium (Na) and calcium (Ca) with lesser magnesium (Mg). Bicarbonate (HCO_3) followed by sulfate (SO_4) and chloride (Cl) are the primary anions identified in groundwater. Total dissolved solids (TDS) were measured at 1,200 ppm and 1,000 ppm in samples collected from BVE-1 and BVE-4, respectively.

The magnitude and extent of pre-remedial soil vapor-phase and adsorbed-phase hydrocarbons was presented in cross-sectional view in earlier reports (BEI 2010). Both adsorbed-phase and vapor-phase soil hydrocarbons were present in the vicinity of the USTs and dispensers. Gasoline and diesel range hydrocarbons were present in soils at levels of up to 5,800 and 7,400 parts per million (ppm), respectively. Adsorbed-phase diesel range TPH extended from near

the land surface in the vicinity of the former dispensers to the water table. Adsorbed-phase gasoline range TPH was restricted primarily to the Lower Sand and Gravel Zone. Vapor-phase hydrocarbons form a halo surrounding the adsorbed-phase TPH core and were measured at levels as high as 7,800 ppm/v on a PID.

Advancement of recovery wells (BVE-9i, BVE-10i, and BVE-11i) during March 2013, documented substantial improvements in on-site subsurface hydrocarbon contamination in response to MPVE system operation. Advancement and sampling of newly installed AOI wells AOI-0 through AOI-13 during October 2014 identified residual hydrocarbon “hotspots” located primarily beneath Avenue O and extending onto the adjacent ENMU parking lot. Operation of the AOI system has already been effective at addressing these remaining hydrocarbons.

1.4 SCOPE OF WORK

This quarterly report was prepared in accordance with the product recovery system O&M workplan and budget approved by NMED-PSTB on February 21, 2014.

1.5 PRODUCT RECOVERY SYSTEM DESCRIPTION

The MPVE product recovery system designed for the Site originally utilized 10 extraction wells manifolded to an above ground treatment compound (Figure 2). As stated above, three additional recovery wells were added to the system at the end of the 5th quarter of O&M for a total of 13 extraction wells. Nine intermediate depth treatment wells (BVE-1i, BVE-2i, BVE-3i, BVE-5i, BVE-6i, BVE-7i, BVE-9i, BVE-10i, and BVE-11i) are screened across the water/product table and are equipped to operate as SVE/MPVE product recovery wells. Four shallow zone wells (BVE-1s, BVE-5s, BVE-6s, and BVE-7s) are screened in the vadose zone and are operated solely as SVE wells.

The primary above ground equipment components were transported from the NMED-funded former Maverik convenience store soil and groundwater cleanup site in Grants, New Mexico. Prior to that, the equipment was used to treat the Allsup's #319 site in Taos, New Mexico. Recovered LNAPL is stored on-site in a fenced equipment compound within a double-walled approximately 300-gallon aboveground double-walled steel storage tank. Extracted groundwater is treated with a low-profile high efficiency 4-tray air stripper and GAC polishing before being discharged (with permission) via an underground line to the City of Portales (COP) sanitary sewer system. The New Mexico Office of the State Engineer (NMOSE) granted BEI/NMED permission to extract groundwater from the Site following submission of a Groundwater Withdrawal Permit. The extracted vapors are treated using a Product Recovery

Management, Inc. (PRM) thermal/catalytic oxidizer prior to discharge to the atmosphere. Depending on the well operating configuration, either two 30-horsepower (hp) liquid-ring pumps (LRPs) or one 25-hp positive displacement (PD) blower power(s) the extraction system.

The LNAPL recovery system is detailed in the Engineering Plans and As-Built Drawings, submitted to NMED in January 2012 and the system upgrade As-Built submitted in May 2013. An as-built package documenting installation of the AOI system upgrade was submitted to NMED in January 2015.

The new AOI system was installed at the Site during the 11th quarter of O&M and consists of an above ground treatment trailer with two ozone generators, an oxygen concentrator, and a rotary screw air compressor. The AOI equipment is manifolded by “home run-type” piping to the 14 newly installed AOI wells. The wells can be operated individually or on a combined basis using a touch screen PLC. At the end of the 13th quarter of O&M, NMED authorized connection of wells BVE-9i, BVE-11i, and MW-26d into the AOI system.

During the first 11 quarters of system O&M, the oxidizer was operated in both thermal and catalytic mode depending on the concentrations of extracted vapors and the condition of the catalyst. BEI shutdown the oxidizer at the beginning of the 12th quarter of O&M based on low extracted hydrocarbon concentrations in the SVE influent. It has remained off-line since then. Extracted vapors are now directly vented to the atmosphere.

1.6 OPERATION AND MAINTENANCE ACTIVITIES

O&M of the product recovery system and monitoring of subsurface conditions is required at regular intervals to accomplish the following tasks for cost-effective hydrocarbon recovery at the Site:

- Collect data on system operation.
- Maximize system mechanical performance.
- Optimize SVE/MPVE well operating configurations.
- Optimize AOI well operating configurations.
- Select active treatment zones.
- Document air abatement and groundwater treatment efficiencies.
- Document product thickness/groundwater quality in response to system operation.
- Perform general equipment preventative maintenance.
- Document compliance with NMOSE permits

Standard O&M procedures during site visits included, but were not limited to, the following activities:

- ***Check SVE blower/groundwater extraction systems***
 1. Record process gauge readings (flow, temperature, vacuum), controller outputs, and sight glass fluid levels.
 2. Measure influent and effluent vapor concentrations using a photoionization detector (PID).
 3. Perform routine preventative maintenance on the LRPs and PD blower including cleaning, and oil addition/change out.
 4. Record control valve configurations on arrival and prior to departure from Site.
 5. Perform adjustments to the SVE/MPVE recovery well configurations and system flow rates as required.
 6. Clean extraction wells with a jetting tool as needed to maximize groundwater extraction.
 7. Collect appropriate groundwater and/or vapor samples for laboratory analysis.
 8. Check EOS™ telemetry and control system; adjust or program as necessary.
 9. Record electrical meter readouts.
 10. Estimate LNAPL/hydrocarbon extraction and emission rates.
 11. Check filters and gauges; clean or replace as necessary.
 12. Check air compressor; change filter/oil as necessary.
- ***Check AOI treatment systems***
 1. Record process gauge readings (flow, pressure), controller outputs
 2. Perform routine preventative maintenance on the rotary screw air compressor including cleaning, and oil addition/change out.
 3. Record AOI control valve configurations on arrival and prior to departure from Site.
 4. Perform adjustments to the AOI well configurations, injection intervals, and system flow rates as required.
 5. Check various connections for leaks
 6. Check PLC touch screen telemetry and control system; program as necessary.
 7. Check and replace/clean various filters as needed.
 8. Check internal trailer temperature and adjust air conditioning/heating units as necessary.
- ***Check water treatment process stream***
 1. Check, clean, and adjust sequestering agent pumps and storage containers as needed.
 2. Check bag filters; replace as necessary.
 3. Document status of discharge pumps; clean as necessary.
 4. Check OWS operational status and monitor recovered LNAPL amounts.

5. Check air stripper operational status and obtain PID/FID headspace field screening readings and collect samples for laboratory analysis on discharge water at sampling ports as necessary.
 6. Change/backwash liquid-phase GAC drums as necessary.
 7. Dismantle and clean air stripper as necessary.
 8. Check hot water recirculation system (used to protect portions of subsurface piping during cold months).
 9. Record totalizer readings and calculate water discharge rate.
 10. Estimate groundwater extraction rates.
- ***Respond to system shutdowns; restart units as necessary.***
 - ***Fully document system changes and measurements on field log sheets for later entry into database.***
 - ***Evaluate system performance.***

A detailed summary of O&M activities and operating parameters for the product recovery system from startup and shakedown to the end of this quarter of O&M is presented in Appendix A and in the detailed e-mail summary spreadsheet reports for the Site.

1.7 13th QUARTER O&M ACTIVITY SUMMARY

Primary efforts during the 13th quarter focused on optimization of the newly installed AOI treatment system. Several shutdowns of the AOI system occurred due to equipment failure during its first quarter of operation. Final upgrades completed during the first week of the 13th quarter by the equipment manufacturer allowed the system to operate continuously throughout the rest of the quarter. At the end of the 13th quarter, a regulator for the main AOI air compressor failed and had to be replaced along with a series of oil coalescing filters. Additionally, several new check valves were added/replaced on the AOI/air process stream. Finally the AOI main air compressor oil and oil filter were changed partway through the quarter.

The vacuum-enhanced product recovery system was operated in SVE mode during the first half of the quarter and MPVE mode during the last half of the quarter. This allowed the application of both high and low vacuums at various locations across the site vicinity.

Approximately 52,935 gallons of recovered groundwater was treated during the quarter. As during previous quarters, the use of sequestering agents reduced the amount of precipitate buildup in the air stripper and GAC vessels and minimized biofouling. GACs were backwashed on multiple occasions and swapped out at the very beginning of the quarter with two fresh GACs. Bag filters were changed multiple times during the quarter to minimize sediment buildup in the water treatment vessels.

Heavy weed growth was removed around the compound and an insecticide used to control the local pest population on several occasions. The MS and OWS float assemblies were cleaned on multiple occasions.

Due to declining SVE hydrocarbon extraction levels the thermal/catalytic oxidizer was shutdown permanently on January 8, 2015. Extracted vapors have been vented directly to the atmosphere since then. Atmospheric vapor discharge levels from the oxidizer remained below air quality standards throughout the 13th quarter of O&M. Based on laboratory analyses, treated groundwater also remained below New Mexico Water Quality Control Commission (WQCC) standards and laboratory method detection limits (MDLs) throughout the quarter.

During the week of August 18, 2015, BEI and Enviroworks, LLC personnel conducted the end of 13th quarter groundwater-sampling event. Thirteen wells were sampled in the Site vicinity. Table 2 presents a summary of organic groundwater quality data for the sampling event.

Following completion of the event, all intermediate depth recovery wells were jetted with a downhole rotating high-pressure device to remove potential scale and biofouling. The downhole drop tubes (stingers) were then returned to the wells. The various float assemblies, the MS tank, and the OWS tank, were all cleaned at the end of the quarter to remove sediment and biologic buildup.

In addition, to the standard end of quarter sampling and O&M, Enviroworks connected three additional wells (BVE-9i, BVE-11i, and MW-26d) to the AOI system to allow for the use of ozone injection in these wells. These wells were selected based on cost-effectiveness and the results of recent groundwater sampling data, which indicated localized hydrocarbon “hotspots” at these locations.

2.0 FIELD AND LABORATORY SAMPLING METHODS AND PROCEDURES

2.1 GENERAL

This section describes the methods and procedures for the following project activities conducted during this quarter of product recovery system O&M:

- Vapor Sampling and Analysis
- Groundwater Sampling and Analysis

As per the requirements of CFR 1910.120, BEI prepared a site specific Health and Safety Plan (HASP) at the beginning of the project. The HASP has been updated several times as site activities have expanded and changed. A copy of the Health and Safety Plan is located inside the treatment system building at the Site.

2.2 VAPOR SAMPLING AND ANALYSIS

Extracted vapor samples were collected for field analysis of both influent and effluent concentrations using a RAE-2000 PID utilizing a 10.6 eV lamp. In addition, laboratory analyses were conducted on 2 sets of vapor samples. Laboratory results are presented in Appendix B. Both field and laboratory samples were collected from influent/effluent sample ports using a tedlar bag. 100 ppm/v isobutylene span gas and ambient air were used to calibrate the PID prior to use. Laboratory samples were analyzed for the following compounds:

- BTEX, TMBs, and MTBE using EPA Method 8021
- TPH (C₁ through C₁₄ carbon range) using EPA Method 8015 modified
- Fixed gases including methane (CH₄)

2.3 GROUNDWATER SAMPLING AND ANALYSIS

During the week of August 18, 2015, groundwater samples were collected from 13 monitor wells in the vicinity of the Site for laboratory analysis. A trip blank accompanied the sample kit for quality assurance/quality control purposes. Additionally, two sets of groundwater samples were collected from the water process stream to document treatment efficiency prior to discharge of treated water to the COP sanitary sewer. Process sample locations included: 1) pre-air stripper, 2) post air stripper, 3) post GAC drum #2 (first GAC canister), and/or 4) post GAC drum #3 (final GAC canister). Treated groundwater discharge was below laboratory method detection limits

for each of these events for all tested VOC compounds. Groundwater laboratory analytical results for this quarters sampling events are presented in Table 2, Figure 6, and Appendix B.

Prior to sampling, the water level in each well was measured and also gauged for the presence of LNAPL. Temperature, pH, and conductivity measurements were taken during well purging to document well stabilization. At least three well volumes were removed prior to collection of groundwater samples where possible. Purging of intermediate depth wells was done using hand-bailing techniques. Groundwater samples were collected from the wells with dedicated disposable bailers and stored in appropriate containers using the appropriate preservatives. Samples were collected using strict chain-of-custody procedures, stored on ice in a cooler, and hand-delivered to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. Purge water was discharged to an on-site paved surface to allow volatilization of any VOCs per NMED guidance documents.

Laboratory groundwater samples were analyzed for one or more of the following parameters:

- VOCs including BTEX, EDC, NAPH, TMBs, and MTBE using EPA Method 8260.

3.0 PRODUCT RECOVERY SYSTEM REPORTING REQUIREMENT

3.1 RECOVERY SYSTEM PERFORMANCE EVALUATION

Based on performance criteria presented in the BEI submitted workplan for the 10th through 13th quarters of O&M, NMED payment for BEI services rendered is contingent upon the “percentage of system operational runtime” or PSOT. To date, the Recovery Systems A/B (oxidizer/blowers/water treatment unit) have been operational for a combined PSOT of 100%, meaning no unallowable shutdowns of the system occurred. During its 2nd quarter of operation, recovery System C (AOI Unit) was operational for a PSOT of 95.2%. The combined PSOT for the 13th quarter of O&M was 97.6%. A cumulative summary of system PSOT runtimes for the first 13 quarters of system operation is presented below.

<u>Time period</u>	<u>PSOT %</u>
1 st Quarter	100%
2 nd Quarter	100%
3 rd Quarter	100%
4 th Quarter	100%
5 th Quarter	100%
6 th Quarter	100%
7 th Quarter	100%
8 th Quarter	100%
9 th Quarter	100%
10 th Quarter	100%
11 th Quarter	100%
12 th Quarter	88.3%
13 th Quarter	97.6%
Combined Total	98.9%

MPVE-assisted recovery applications during the 13th quarter removed and treated approximately 52,935 gallons of groundwater. The estimated amount of hydrocarbon recovery via physical extraction and biologic destruction through the end of the 13th quarter of O&M using the SVE/MPVE extraction system is presented below.

**In-situ destruction of hydrocarbons utilizing the AOI system cannot be directly calculated, however, as presented below, significant reductions in product and dissolved-phase groundwater hydrocarbons were documented in wells during the quarter.*

CUMULATIVE HYDROCARBON RECOVERY

Time period	FID/Lab+Biologic TPH removed
1 st Quarter	~19,342 lbs (~3,070 gallons)
2 nd Quarter	~12,214 lbs (~1,939 gallons)
3 rd Quarter	~15,344 lbs (~2,436 gallons)
4 th Quarter	~7,858 lbs (~1,247 gallons)
5 th Quarter	~2,279 lbs (~362 gallons)
6 th Quarter	~6,038 lbs (~958 gallons)
7 th Quarter	~7,792 lbs (~1,237 gallons)
8 th Quarter	~4,871 lbs (~773 gallons)
9 th Quarter	~3,520 lbs (~559 gallons)
10 th Quarter	~2,363 lbs (~375 gallons)
11 th Quarter	~4,863 lbs (~772 gallons)
12 th Quarter	~532 lbs (~85 gallons)
13 th Quarter	~249 lbs (~39 gallons)
Total**	~87,400 lbs (~13,900 gallons)

***Note: combined totals including rounding estimates*

Maximum hydrocarbon recovery rates during the quarter continued to drop significantly based on field and laboratory analytical data. Maximum recovery/discharge levels were 0.10 lbs/hour at an extracted concentration of approximately 178 micrograms/liter (ug/l). Cumulative TPH recovery trends are highlighted on Figure 7.

3.2 LNAPL AND GROUNDWATER HYDROCARBON TRENDS

Groundwater quality maps highlighting the extent of LNAPL and dissolved-phase hydrocarbon concentrations in the intermediate zone wells prior to recovery efforts and immediately before and after the 13th quarter of MPVE/AOI-enhanced product recovery system operations are presented on Figures 4, 5, and 6. Cumulative groundwater quality data for the same time interval are also presented in Table 2.

Dissolved-phase groundwater BTEX levels showed improvements in all tested wells at the Site. *Product is no longer present in monitor wells and groundwater samples collected from all wells were below WQCC standards for BTEX and MTBE for the first time since monitoring began.* Only two wells contained dissolved-phase hydrocarbons exceeding water quality standards. Total naphthalenes were identified in well BVE-9i at 250 ppb and EDC was identified in well BVE-4i at 18 ppb.

Based on the above data, the areas of subaqueous product accumulations in the central and eastern plume (primarily beneath Avenue O) and on ENMU property have been effectively treated using the new AOI system. NMED has elected to operate the recovery system for one additional quarter to minimize the potential for hydrocarbon product rebound following system shutdown. It is likely that the dissolved-phase hydrocarbon plume will also be treated to WQCC standards during this same interval.

3.3 PRODUCT RECOVERY SYSTEM OPERATING PARAMETERS

Appendix A presents a detailed summary of system operating parameters through the end of the 13th quarter of operation including well configurations, time of O&M inspections, flow rates, applied vacuums, influent and effluent concentrations, and cumulative run time. In addition Appendix A contains graphs highlighting the following:

- Cumulative hydrocarbons recovered (FID/PID/Laboratory method)
- Hydrocarbon extraction concentrations vs. time
- Calculated vapor extraction flow rates in scfm
- Cumulative extracted groundwater in gallons

The calculated maximum hydrocarbon discharge to the atmosphere during the quarter was approximately 0.1 lbs/hour. Based on field and laboratory analytical data, the product recovery system was well below the air quality permit allowance of 10 lbs/hour for total non-methane hydrocarbons (TNMH) for the entire quarter of operation.

3.4 RECOMMENDATIONS

Operation of the MPVE/AOI-enhanced product recovery system during 13 quarters of O&M has successfully removed more than 13,900 gallons of subsurface gasoline and diesel hydrocarbons from the Site vicinity via physical extraction, in-situ chemical oxidization, and enhanced biodegradation. The significant majority of BTEX hydrocarbons in on-site soil and groundwater have been removed as highlighted comparing Figures 4 and 6. Operation of the newly installed AOI system for only two quarter has removed remaining product accumulations in all Site wells and reduced dissolved-phase BTEX and MTBE to below WQCC standards.

BEI recommended operation of the enhanced MPVE/AOI systems for an additional quarter of O&M past the current workplan to minimize the potential for hydrocarbon rebound at the Site followed by site closure through monitored natural attenuation (MNA). NMED concurred and subsequently approved a workplan for completion of this task.

4.0 REFERENCES

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Brown Environmental, Inc. (2009) Summary Site Evaluation Report - Former Highway 70 Truckstop – 1601 West 2nd Street, Portales, New Mexico.

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5.0 STATEMENT OF FAMILIARITY

We are personally familiar with the information presented in this report and it is accurate and complete to the best of our knowledge.

Brown Environmental, Inc.

William J. Brown, PG
Vice-President

Gary Mecham, P.E.
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TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER HIGHWAY 70 SITE, PORTALES, NEW MEXICO

LOCATION OF WELL	DATE OF MEASUREMENT	TOP OF CASING ELEVATION (in feet msl)	DEPTH TO LNAPL (in feet)	DEPTH TO GROUNDWATER (in feet)	GROUNDWATER ELEVATION (in feet msl)	TOTAL DEPTH OF WELL* (in feet)	WATER COLUMN THICKNESS (in feet)	LNAPL THICKNESS (in feet)
MW-24d	12/01/08	4008.97	---	76.39	3932.58	96.77	20.38	---
	03/11/09	4008.97	---	76.14	3932.83	96.77	20.63	---
	10/27/09	4008.97	---	77.24	3931.73	96.74	19.50	---
	08/31/10	4008.97	---	77.89	3931.08	96.74	18.85	---
	11/14/11	4008.97	---	79.06	3929.91	96.74	17.68	---
	03/26/12	4008.97	---	78.81	3930.16	96.74	17.93	---
	06/27/12	4008.97	---	79.90	3929.07	96.71	16.81	---
	09/26/12	4008.97	---	80.92	3928.05	96.71	15.79	---
	01/21/13	4008.97	---	80.20	3928.77	96.71	16.51	---
	04/02/13	4008.97	---	80.71	3928.26	96.71	16.00	---
	07/23/13	4008.97	---	81.81	3927.16	96.71	14.90	---
	10/29/13	4008.97	---	81.93	3927.04	96.71	14.78	---
	01/29/14	4008.97	---	81.10	3927.87	91.90	10.80	---
	05/07/14	4008.97	---	82.03	3926.94	91.90	9.87	---
	08/18/14	4008.97	---	82.29	3926.68	91.90	9.61	---
	12/04/14	4008.97	---	82.51	3926.46	91.90	9.39	---
	04/13/15	4008.97	---	82.46	3926.51	91.90	9.44	---
	08/18/15	4008.97	---	83.23	3925.74	91.85	8.62	---
MW-25d	12/01/08	4009.46	---	76.94	3932.52	92.53	15.59	---
	03/11/09	4009.46	---	76.72	3932.74	92.53	15.81	---
	10/27/09	4009.46	---	77.81	3931.65	92.52	14.71	---
	08/31/10	4009.46	---	78.46	3931.00	92.52	14.06	---
	11/14/11	4009.46	---	79.62	3929.84	92.52	12.90	---
	03/26/12	4009.46	---	79.36	3930.10	92.52	13.16	---
	06/27/12	4009.46	---	80.43	3929.03	92.52	12.09	---
	09/26/12	4009.46	---	81.42	3928.04	92.52	11.10	---
	01/21/13	4009.46	---	80.83	3928.63	92.52	11.69	---
	04/02/13	4009.46	under bldg	80.83	3928.63	92.02	11.19	---
	07/23/13	4009.46	---	82.30	3927.16	92.52	10.22	---
	10/29/13	4009.46	---	82.49	3926.97	92.52	10.03	---
	01/29/14	4009.46	---	81.65	3927.81	92.52	10.87	---
	05/07/14	4009.41	---	82.59	3926.82	92.52	9.93	---
	08/18/14	4009.41	---	82.84	3926.57	92.52	9.68	---
	12/04/14	4009.41	---	83.03	3926.38	88.14	5.11	---
	04/13/15	4009.41	---	82.93	3926.48	88.14	5.21	---
	08/18/15	4009.41	---	83.66	3925.75	88.25	4.59	---
MW-26d	12/01/08	4008.83	---	76.30	3932.53	93.60	17.30	---
	03/11/09	4008.83	---	76.11	3932.72	92.53	16.42	---
	10/27/09	4008.83	---	77.15	3931.68	93.73	16.58	---
	08/31/10	4008.83	---	77.79	3931.04	93.73	15.94	---
	11/14/11	4008.83	---	79.03	3929.80	93.73	14.70	---
	03/26/12	4008.83	---	78.83	3930.00	93.73	14.90	---
	06/27/12	4008.83	---	79.75	3929.08	93.73	13.98	---
	09/26/12	4008.83	---	80.93	3927.90	93.73	12.80	---
	01/21/13	4008.83	---	80.25	3928.58	93.73	13.48	---
	04/02/13	4008.83	---	80.68	3928.15	93.73	13.05	---
	07/23/13	4008.83	---	81.68	3927.15	93.73	12.05	---
	10/29/13	4008.83	---	81.93	3926.90	93.73	11.80	---
	01/29/14	4008.83	---	81.06	3927.77	89.60	8.54	---
	05/07/14	4008.83	---	82.01	3926.82	89.60	7.59	---
	08/18/14	4008.83	---	82.36	3926.47	89.60	7.24	---
	12/04/14	4008.83	---	82.55	3926.28	89.32	6.77	---
	04/13/15	4009.41	---	82.93	3926.48	88.14	5.21	---
	08/18/15	4008.83	---	83.20	3925.63	88.85	5.65	---
MW-27d	12/01/08	4008.59	---	car on well	----	---	----	---
	03/11/09	4008.59	---	76.01	3932.58	92.53	16.52	---
	10/27/09	4008.59	---	77.02	3931.57	94.49	17.47	---
	08/31/10	4008.59	---	77.65	3930.94	94.49	16.84	---
	11/14/11	4008.59	---	78.89	3929.70	94.49	15.60	---
	03/26/12	4008.59	---	78.77	3929.82	94.49	15.72	---
	06/27/12	4008.59	---	80.10	3928.49	94.49	14.39	---
	09/26/12	4008.59	---	81.04	3927.55	94.49	13.45	---
	01/21/13	4008.59	---	80.48	3928.11	94.49	14.01	---
	04/02/13	4008.59	---	80.65	3927.94	94.49	13.84	---
	07/23/13	4008.59	---	81.70	3926.89	94.49	12.79	---
	10/29/13	4008.59	---	81.97	3926.62	94.49	12.52	---
	01/29/14	4008.59	---	81.07	3927.52	89.25	8.18	---
	05/07/14	4008.59	---	82.04	3926.55	89.10	7.06	---
	08/18/14	4008.59	---	82.59	3926.00	89.10	6.51	---
	12/04/14	4008.59	---	82.56	3926.03	89.10	6.54	---
	04/13/15	4008.59	---	82.46	3926.13	89.10	6.64	---
	08/18/15	4008.59	---	83.21	3925.38	89.10	5.89	---
MW-28d	12/01/08	4008.87	---	75.16	3933.71	94.92	19.76	---
	03/11/09	4008.87	---	76.15	3932.72	92.53	16.38	---
	10/27/09	4008.87	---	77.21	3931.66	94.96	17.75	---
	08/31/10	4008.87	---	77.84	3931.03	94.96	17.12	---
	11/14/11	4008.87	---	79.04	3929.83	94.96	15.92	---
	03/26/12	4008.87	---	78.87	3930.00	94.96	16.09	---
	06/27/12	4008.87	---	79.16	3929.71	94.96	15.80	---
	09/26/12	4008.87	---	81.09	3927.78	94.90	13.81	---
	01/21/13	4008.87	---	80.47	3928.40	94.90	14.43	---
	04/02/13	4008.87	---	80.81	3928.06	94.90	14.09	---
	07/23/13	4008.87	---	81.91	3926.96	94.90	12.99	---
	10/29/13	4008.87	---	82.07	3926.80	94.90	12.83	---
	01/29/14	4008.87	---	81.15	3927.72	85.30	4.15	---
	05/07/14	4008.87	---	82.16	3926.71	85.34	3.18	---
	08/18/14	4008.87	---	82.58	3926.29	85.34	2.76	---
	12/04/14	4008.87	---	82.73	3926.14	85.21	2.48	---
	04/13/15	4008.87	---	82.60	3926.27	85.21	2.61	---
	08/18/15	4008.87	well dry	----	----	83.54	----	---
MW-29d	12/01/08	4008.55	---	75.95	3932.60	95.70	19.75	---
	03/11/09	4008.55	---	75.71	3932.84	92.53	16.82	---
	10/27/09	4008.55	---	76.77	3931.78	96.14	19.37	---
	08/31/10	4008.55	---	77.44	3931.11	96.14	18.70	---

TABLE 1
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FORMER HIGHWAY 70 SITE, PORTALES, NEW MEXICO

LOCATION OF WELL	DATE OF MEASUREMENT	TOP OF CASING ELEVATION (in feet msl)	DEPTH TO LNAPL (in feet)	DEPTH TO GROUNDWATER (in feet)	GROUNDWATER ELEVATION (in feet msl)	TOTAL DEPTH OF WELL* (in feet)	WATER COLUMN THICKNESS (in feet)	LNAPL THICKNESS (in feet)
MW-29d (cont.)	11/14/11	4008.55	---	78.68	3929.87	96.14	17.46	---
	03/26/12	4008.55	---	78.36	3930.19	96.14	17.78	---
	06/27/12	4008.55	---	79.87	3928.68	96.14	16.27	---
	09/26/12	4008.55	---	80.72	3927.83	96.14	15.42	---
	01/21/13	4008.55	---	80.08	3928.47	96.14	16.06	---
	04/02/13	4008.55	---	80.35	3928.20	96.14	15.79	---
	07/23/13	4008.55	---	81.51	3927.04	96.14	14.63	---
	10/29/13	4008.55	---	81.64	3926.91	96.14	14.50	---
	01/29/14	4008.55	---	80.72	3927.83	91.90	11.18	---
	05/07/14	4008.55	---	81.70	3926.85	91.94	10.24	---
	08/18/14	4008.55	---	82.08	3926.47	91.94	9.86	---
	12/04/14	4008.55	---	82.15	3926.40	91.94	9.79	---
	04/13/15	4008.55	---	82.19	3926.36	91.94	9.75	---
	08/18/15	4008.55	---	82.94	3925.61	91.93	8.99	---
BVE-1i	03/11/09	4009.20	sheen	76.36	3932.84	82.10	5.74	---
	10/27/09	4009.20	77.18	78.34	3931.73	82.10	3.76	1.16
	08/31/10	4009.20	77.84	79.20	3931.02	82.10	2.90	1.36
	11/14/11	4008.10	78.07	78.82	3929.84	80.91	2.09	0.75
	03/26/12	4008.10	---	77.88	3930.22	80.91	3.03	---
	06/27/12	4008.10	---	78.70	3929.40	80.91	2.21	---
	09/26/12	4008.10	79.93	79.99	3928.16	80.91	0.92	0.06
	01/21/13	4008.10	---	79.23	3928.87	80.91	1.68	---
	04/02/13	4008.10	---	79.85	3928.25	80.91	1.06	---
	07/23/13	4008.10	---	well dry	----	81.12	----	---
	10/29/13	4008.10	---	well dry	----	81.02	----	---
	01/29/14	4008.10	---	80.11	3927.99	81.02	----	---
	05/07/14	4008.10	---	well dry	----	81.02	----	---
	08/18/14	4008.10	---	well dry	----	81.02	----	---
	12/04/14	4008.10	---	well dry	----	81.05	----	---
	04/13/15	4008.10	---	well dry	----	81.05	----	---
	04/13/15	4008.10	---	well dry	----	81.05	----	---
BVE-2i	03/11/09	4008.86	sheen	76.03	3932.83	85.69	9.66	---
	10/27/09	4008.86	76.99	77.62	3931.71	85.69	8.07	0.63
	08/31/10	4008.86	77.58	78.60	3931.03	85.69	7.09	1.02
	11/14/11	4007.85	77.77	78.80	3929.82	83.60	4.80	1.03
	03/26/12	4007.42	77.30	77.31	3930.12	81.80	4.49	0.01
	06/27/12	4007.85	----	78.44	3929.41	83.60	5.16	---
	09/26/12	4007.85	79.72	79.79	3928.11	83.60	4.49	0.07
	01/21/13	4007.85	79.14	79.45	3928.63	83.60	4.49	0.31
	04/02/13	4007.85	79.57	79.60	3928.27	83.60	4.49	0.03
	07/23/13	4007.85	80.715	80.72	3927.13	83.60	4.49	0.005
	10/29/13	4007.85	---	80.73	3927.12	83.65	2.92	---
	01/29/14	4007.85	---	79.89	3927.96	83.80	3.91	---
	05/07/14	4007.85	---	80.90	3926.95	83.80	2.90	---
	08/18/14	4007.85	---	81.10	3926.75	83.80	2.70	---
	12/04/14	4007.85	---	81.38	3926.47	83.83	2.45	---
	04/13/15	4007.85	---	81.36	3926.49	83.83	2.47	---
	08/18/15	4007.85	---	82.10	3925.75	83.80	1.70	---
BVE-3i	03/11/09	4008.48	----	75.69	3932.79	83.00	7.31	---
	10/27/09	4008.48	76.57	77.59	3931.66	83.00	5.41	1.02
	08/31/10	4008.48	76.89	79.51	3930.94	83.00	3.49	2.62
	11/14/11	4007.42	76.93	80.38	3929.63	81.80	1.42	3.45
	03/26/12	4007.42	77.30	77.31	3930.12	81.80	4.49	0.01
	06/27/12	4007.42	77.20	79.45	3929.66	81.80	2.35	2.25
	09/26/12	4007.42	78.77	81.94	3927.86	82.19	0.25	3.17
	01/21/13	4007.42	78.55	79.94	3928.52	82.19	2.25	1.39
	04/02/13	4007.42	79.14	79.33	3928.23	82.19	2.86	0.19
	07/23/13	4007.42	80.27	80.56	3927.08	82.19	1.63	0.29
	10/29/13	4007.42	80.32	80.34	3927.10	82.14	1.80	0.02
	01/29/14	4007.42	79.48	79.52	3927.93	82.14	2.62	0.04
	05/07/14	4007.42	80.58	80.62	3926.83	82.14	1.52	0.04
	08/18/14	4007.42	80.64	80.65	3926.78	82.14	1.49	0.01
	12/04/14	4007.42	---	81.00	3926.42	82.20	1.20	--
	04/13/15	4007.42	---	81.03	3926.39	82.20	1.17	--
	04/13/15	4007.42	well dry	81.73	3925.69	82.17	0.44	--
BVE-4i	03/11/09	4008.49	----	75.76	3932.73	90.82	15.06	---
	10/27/09	4008.49	----	76.79	3931.70	90.82	14.03	---
	08/31/10	4008.49	----	77.44	3931.05	90.82	13.38	---
	11/14/11	4008.49	----	78.69	3929.80	90.82	12.13	---
	03/26/12	4008.49	----	78.41	3930.08	90.82	12.41	---
	06/27/12	4008.49	----	79.58	3928.91	90.82	11.24	---
	09/26/12	4008.49	----	80.66	3927.83	90.82	10.16	---
	01/21/13	4008.49	----	80.04	3928.45	90.82	10.78	---
	04/02/13	4008.49	----	80.38	3928.11	90.82	10.44	---
	07/23/13	4008.49	----	81.48	3927.01	90.82	9.34	---
	10/29/13	4008.49	----	81.64	3926.85	90.82	9.18	---
	01/29/14	4008.49	----	80.73	3927.76	89.29	8.56	---
	05/07/14	4008.49	----	81.73	3926.76	89.33	7.60	---
	08/18/14	4008.49	----	82.11	3926.38	89.33	7.22	---
	12/04/14	not surveyed	----	82.00	----	89.35	7.35	---
	04/13/15	not surveyed	----	81.86	----	89.35	7.49	---
	08/18/15	not surveyed	----	82.63	----	89.38	6.75	---
BVE-5i	03/11/09	4009.41	sheen	76.58	3932.83	88.81	12.23	---
	10/27/09	4009.41	77.65	77.67	3931.76	88.81	11.14	0.02
	08/31/10	4009.41	sheen	77.32	3932.09	88.81	11.49	sheen
	11/14/11	4008.09	sheen	78.29	3929.80	87.23	8.94	sheen
	03/26/12	4008.09	---	77.88	3930.21	87.23	9.35	---
	06/27/12	4008.09	78.71	79.03	3929.30	87.23	8.20	0.32
	09/26/12	4008.09	79.91	80.03	3928.15	87.23	7.20	0.12
	01/21/13	4008.09	----	79.14	3928.95	87.23	8.09	---
	04/02/13	4008.09	----	79.85	3928.24	87.23	7.38	---
	07/23/13	4008.09	----	80.94	3927.15	87.15	6.21	---
	01/29/14	4008.09	----	80.12	3927.97	87.15	7.03	---
	05/07/14	4008.09	----	81.14	3926.95	87.15	6.01	----

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LOCATION OF WELL	DATE OF MEASUREMENT	TOP OF CASING ELEVATION (in feet msl)	DEPTH TO LNAPL (in feet)	DEPTH TO GROUNDWATER (in feet)	GROUNDWATER ELEVATION (in feet msl)	TOTAL DEPTH OF WELL* (in feet)	WATER COLUMN THICKNESS (in feet)	LNAPL THICKNESS (in feet)
BE-5i (cont.)	08/18/14	4008.09	----	81.27	3926.82	87.15	5.88	----
	12/04/14	4008.09	----	81.62	3926.47	87.49	5.87	----
	04/13/15	4008.09	----	81.55	3926.54	87.49	5.94	----
	08/18/15	4008.09	----	82.32	3925.77	87.15	4.83	----
BVE-6i	03/26/12	4009.57	sheen	76.80	3932.77	92.57	15.77	---
	10/27/09	4009.57	sheen	77.89	3931.68	92.57	14.68	---
	08/31/10	4009.57	sheen	78.54	3931.03	92.57	14.03	---
	11/14/11	4008.12	sheen	78.30	3929.82	90.94	12.64	---
	03/26/12	4008.12	sheen	78.00	3930.12	90.94	12.94	---
	06/27/12	4008.12	sheen	78.86	3929.26	90.94	12.08	---
	09/26/12	4008.12	----	80.05	3928.07	90.94	10.89	---
	01/21/13	4008.12	----	79.34	3928.78	90.94	11.60	---
	04/02/13	4008.12	----	79.90	3928.22	90.94	11.04	---
	07/23/13	4008.12	----	81.02	3927.10	90.94	9.92	---
	10/29/13	4008.12	----	81.07	3927.05	90.94	9.87	---
	01/29/14	4008.12	----	80.23	3927.89	90.94	10.71	---
	05/07/14	4008.12	----	81.22	3926.90	90.94	9.72	---
	08/18/14	4008.12	----	81.45	3926.67	90.94	9.49	---
	12/04/14	4008.12	----	81.73	3926.39	91.00	9.27	---
	04/13/15	4008.12	----	81.64	3926.48	91.00	9.36	---
	08/18/15	4008.12	----	82.38	3925.74	90.94	8.56	---
BVE-7i	03/11/09	4009.00	----	76.22	3932.78	86.96	10.74	---
	10/27/09	4009.00	77.25	77.46	3931.70	86.96	9.50	0.21
	08/31/10	4009.00	77.60	79.11	3931.02	86.96	7.85	1.51
	11/14/11	4007.56	77.29	79.32	3929.76	85.34	6.02	2.03
	03/26/12	4007.56	77.32	77.53	3930.19	85.34	7.81	0.21
	06/27/12	4007.56	----	77.66	3929.90	84.18	6.52	----
	09/26/12	4007.56	79.10	80.92	3928.01	84.18	3.26	1.82
	01/21/13	4007.56	78.86	78.89	3928.69	84.18	5.29	0.03
	04/02/13	4007.56	79.28	79.41	3928.25	84.18	4.77	0.13
	07/23/13	4007.56	80.43	80.49	3927.12	84.18	3.69	0.06
	10/29/13	4007.56	----	80.44	3927.12	84.15	3.71	----
	01/29/14	4007.56	----	79.61	3927.95	84.15	4.54	----
	05/07/14	4007.56	----	80.67	3926.89	84.15	3.48	----
	08/18/14	4007.56	----	80.83	3926.73	84.15	3.32	----
	12/04/14	4007.56	----	81.12	3926.44	85.25	4.13	----
	04/13/15	4007.56	----	81.20	3926.36	85.25	4.05	----
	04/13/15	4007.56	----	81.85	3925.71	85.25	3.40	----
BVE-8i	10/27/09	4008.33	----	76.68	3931.65	83.44	6.76	---
	08/31/10	4008.33	----	77.29	3931.04	83.44	6.15	---
	11/14/11	4008.33	----	78.51	3929.82	83.44	4.93	---
	03/26/12	4008.33	----	78.28	3930.05	83.44	5.16	---
	06/27/12	4008.33	----	79.38	3928.95	83.44	4.06	---
	09/26/12	4008.33	----	80.40	3927.93	83.44	3.04	---
	01/21/13	4008.33	----	79.69	3928.64	83.44	3.75	---
	04/02/13	4008.33	----	80.14	3928.19	83.44	3.30	---
	07/23/13	4008.33	----	81.24	3927.09	83.44	2.20	---
	10/29/13	4008.33	----	81.26	3927.07	83.84	2.58	---
	01/29/14	4008.33	----	80.53	3927.80	83.84	3.31	---
	05/07/14	4008.33	----	81.47	3926.86	83.82	2.35	---
	08/18/14	4008.33	----	81.79	3926.54	83.82	2.03	---
	12/04/14	4008.33	----	81.95	3926.38	83.84	1.89	---
	04/13/15	4008.33	----	81.89	3926.44	83.84	1.95	---
	04/13/15	4008.33	----	82.67	3925.66	83.84	1.17	---
BVE-9i	04/02/13	4008.03	----	79.91	3928.12	90.12	10.21	0.01
	07/23/13	4008.03	----	80.94	3927.09	90.12	9.18	
	10/29/13	4008.03	80.92	80.93	3927.11	90.12	9.19	
	01/29/14	4008.03	----	80.08	3927.95	90.12	10.04	
	05/07/14	4008.03	----	81.10	3926.93	90.12	9.02	
	08/18/14	4008.03	----	81.32	3926.71	90.12	8.80	
	12/04/14	4008.03	----	81.57	3926.46	90.40	8.83	
	04/13/15	4008.03	----	81.63	3926.40	90.40	8.77	
	04/13/15	4008.03	----	82.32	3925.71	90.12	7.80	
BVE-10i	04/02/13	4008.25	----	80.26	3927.99	89.85	9.59	0.005
	07/23/13	4008.25	----	81.13	3927.12	89.85	8.72	
	10/29/13	4008.25	81.18	81.185	3927.07	89.85	8.66	
	01/29/14	4008.25	----	80.31	3927.94	89.85	9.54	
	05/07/14	4008.25	----	81.33	3926.92	89.85	8.52	
	08/18/14	4008.25	----	81.55	3926.70	89.85	8.30	
	12/04/14	4008.25	----	81.81	3926.44	89.95	8.14	
	04/13/15	4008.25	----	81.81	3926.44	89.95	8.14	
	08/18/15	4008.25	----	82.54	3925.71	89.85	7.31	
BVE-11i	04/02/13	4008.41	----	79.02	3929.39	87.68	8.66	---
	07/23/13	4008.41	----	81.30	3927.11	87.68	6.38	---
	10/29/13	4008.41	----	81.38	3927.03	87.68	6.30	---
	01/29/14	4008.41	80.34	81.30	3927.83	89.85	8.55	0.96
	05/07/14	4008.41	81.20	82.40	3926.91	89.85	7.45	1.20
	08/18/14	4008.41	----	82.40	3926.01	89.85	7.45	---
	12/04/14	4008.41	81.96	82.07	3926.42	87.46	5.39	0.11
	04/13/15	4008.41	81.84	81.87	3926.56	87.46	5.59	0.03
	08/18/15	4008.41	----	82.73	3925.68	87.43	4.70	----
BMW-22i	10/27/09	4007.46	----	76.04	3931.42	86.97	10.93	---
	08/31/10	4007.46	----	76.58	3930.88	86.97	10.39	---
	11/14/11	4007.46	----	77.82	3929.64	86.97	9.15	---
	03/26/12	4007.46	----	77.87	3929.59	86.97	9.10	---
	06/27/12	4007.46	----	79.42	3928.04	86.97	7.55	---
	09/26/12	4007.46	----	79.61	3927.85	86.97	7.36	---
	04/02/13	4007.46	----	79.75	3927.71	86.97	7.22	---
	07/23/13	4007.46	----	80.92	3926.54	86.97	6.05	---
	10/29/13	4007.46	----	81.12	3926.34	86.97	5.85	---
	01/29/14	4007.46	----	80.18	3927.28	87.35	7.17	---
	05/07/14	4007.46	----	81.22	3926.24	87.44	6.22	---
	08/18/14	4007.46	----	81.83	3925.63	87.44	5.61	---
	12/04/14	4007.46	----	81.71	3925.75	87.65	5.94	---

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER HIGHWAY 70 SITE, PORTALES, NEW MEXICO

LOCATION OF WELL	DATE OF MEASUREMENT	TOP OF CASING ELEVATION (in feet msl)	DEPTH TO LNAPL (in feet)	DEPTH TO GROUNDWATER (in feet)	GROUNDWATER ELEVATION (in feet msl)	TOTAL DEPTH OF WELL* (in feet)	WATER COLUMN THICKNESS (in feet)	LNAPL THICKNESS (in feet)
BMW-22i (cont.)	04/13/15	4007.46	----	81.63	3925.83	87.65	6.02	---
	08/18/15	4007.46	----	82.49	3924.97	87.65	5.16	----
BMW-23i	10/27/09	4008.01	----	76.58	3931.43		12.27	---
	08/31/10	4008.01	----	77.15	3930.86	88.85	11.70	---
	11/14/11	4008.01	----	78.40	3929.61	88.85	10.45	---
	03/26/12	4008.01	----	78.35	3929.66	88.85	10.50	---
	06/27/12	4008.01	----	79.68	3928.33	88.85	9.17	---
	09/26/12	4008.01	----	80.09	3927.92	88.85	8.76	---
	04/02/13	4008.01	----	80.19	3927.82	88.85	8.66	---
	07/23/13	4008.01	----	81.24	3926.77	88.85	7.61	---
	10/29/13	4008.01	----	81.55	3926.46	88.85	7.30	---
	01/29/14	4008.01	----	80.70	3927.31	88.70	8.00	---
	05/07/14	4008.01	----	81.64	3926.37	88.70	7.06	---
	08/18/14	4008.01	----	82.22	3925.79	88.70	6.48	---
	12/04/14	4008.01	----	82.16	3925.85	88.70	6.54	---
	04/13/15	4008.01	----	82.02	3925.99	88.70	6.68	---
	08/18/15	4008.01	----	82.82	3925.19	88.70	5.88	---

TABLE 2
SUMMARY OF ORGANIC GROUNDWATER LABORATORY ANALYTICAL DATA
FORMER HIGHWAY 70 SITE, PORTALES, NEW MEXICO

LOCATION OF WELL	SAMPLE DATE	SAMPLER	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	METHYL- TERTIARY BUTYL	TRI- METHYL BENZENES	1,2- DICHLORO- ETHANE	1,2- DIBROMO- ETHANE	NAPHTH + MONO- METHYL	
WQCC/PSTR STANDARDS			ug/l	ug/l	ug/l	ug/l	ug/l		ug/l	ug/l	ug/l	
			10	750	750	620	100		10	0.1	30	
MW-24d	07/30/04	AEA	3,500	5,100	710	3,500	58	---	18	5.6	200	
	05/19/08	AEA	43	7.5	91	28	11	---	7.9	0.044*	259	
	03/11/09	BEI	56	<1.0	9.7	6.1	1.8	17.4	1.0	<1.0	45.2	
	10/29/09	BEI	9.6	<1.0	3.5	14	1.0	23.9	1.0	<1.0	13	
	09/02/10	BEI	7.5	<1.0	2.7	<1.5	2.0	4.8	<1.0	<1.0	6.0	
	11/16/11	BEI	16	2.1	7.0	7.6	2.6	16.3	<2.0	<2.0	38	
	03/27/12	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	<2.0	<2.0	<20	
	06/28/12	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	09/27/12	BEI	7.5	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	2.3	
	01/23/13	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	3.2	<2.0	<20	
	04/04/13	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	<2.0	<2.0	<20	
	10/30/13	BEI	1.1	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	01/30/14	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	<2.0	<2.0	<20	
	04/13/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	08/19/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
MW-25d	07/30/04	AEA	18	2.4	ND	3.3	ND	---	21	ND	2.1	
	05/19/08	AEA	<1.0	<1.0	<1.0	<1.5	<1.0	---	9.5	<0.010*	<10	
	03/11/09	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	7.8	<1.0	<10	
	10/29/09	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	17	<1.0	<10	
	09/02/10	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	7.5	<1.0	<10	
	11/16/11	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	13	<2.0	<20	
	03/27/12	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	12	<2.0	<20	
	06/28/12	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	17	<1.0	<10	
	06/28/12	BEI	<1.0	<1.0	<1.0	<1.5	1.2	<2.0	25	<1.0	<10	
	01/21/13	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	3.2	<2.0	<20	
	10/29/13	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	2.1	<1.0	<10	
	05/08/14	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	3.6	<1.0	<10	
	12/04/14	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	1.1	<1.0	<10	
	MW-26d	07/30/04	AEA	ND	ND	ND	1.3	ND	---	ND	ND	ND
		05/19/08	AEA	1.9	12	5.5	23	<1.0	---	<1.0	0.057*	41.9
03/11/09		BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
10/29/09		BEI	14	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
09/01/10		BEI	290	<1.0	6.4	<1.5	<1.0	<2.0	19	<1.0	2.5	
11/15/11		BEI	920	3.2	46	15	<2.0	25	5.6	<2.0	11	
03/27/12		BEI	5,500	16	340	53	<2.0	121	20	<2.0	98	
06/28/12		BEI	1,800	4.8	100	22	<1.0	48.2	4.2	<1.0	41.5	
09/26/12		BEI	1,600	<5.0	110	<7.5	<5.0	35	5.8	<5.0	21	
01/22/13		BEI	560	<5.0	42	<7.5	<5.0	6.5	<5.0	<5.0	<50	
04/03/13		BEI	1,300	<5.0	110	<7.5	<5.0	6.6	8.3	<5.0	15	
07/24/13		BEI	38	<1.0	3.1	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
10/29/13		BEI	160	<1.0	14	<1.5	<1.0	<2.0	2.2	<1.0	2.6	
01/30/14		BEI	7.6	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
05/08/14		BEI	37	<1.0	4.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
08/18/14	BEI	19	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10		
12/04/14	BEI	7.8	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10		
04/13/15	BEI	11	<1.0	<1.0	<1.5	<1.0	<2.0	1.3	<1.0	<10		
08/19/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	1.3	<1.0	<10		
MW-27d	07/30/04	AEA	11	ND	ND	1.1	ND	---	3.7	ND	ND	
	04/10/05	AEA	ND	ND	ND	ND	ND	---	ND	ND	ND	
	03/11/09	BEI	630	1.6	26	2.2	<1.0	2.5	5.9	<1.0	7.8	
	10/28/09	BEI	5,600	13	740	16	<10	166	46	<10	96	
	09/01/10	BEI	3,800	<5.0	570	<7.5	<5.0	<10.0	22	<5.0	79	
	09/01/10	BEI	4,000	<5.0	570	<7.5	<5.0	<10.0	23	<5.0	81	
	11/15/11	BEI	2,200	5.4	680	<7.5	<5.0	<10.0	22	<5.0	60	
	03/27/12	BEI	5,300	7.3	1300	<3.0	<2.0	7.2	35	<2.0	207	
	06/27/12	BEI	520	1.1	150	<1.5	<1.0	<2.0	6.6	<1.0	17.5	
	09/26/12	BEI	6.9	<1.0	<1.0	<1.5	<1.0	<2.0	2.6	<1.0	<10	
	01/23/13	BEI	44	<1.0	11	<1.5	<1.0	<2.0	5.0	<1.0	2.1	
	04/02/13	BEI	4.8	<1.0	<1.0	<1.5	<1.0	<2.0	2.4	<1.0	<10	
	07/24/13	BEI	7.8	<1.0	<1.0	<1.5	<1.0	<2.0	1.7	<1.0	<10	
	10/29/13	BEI	24	<1.0	<1.0	<1.5	<1.0	<2.0	1.6	<1.0	<10	
	01/31/14	BEI	15	<1.0	<1.0	<1.5	<1.0	<2.0	1.8	<1.0	<10	
05/08/14	BEI	20	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10		
08/18/14	BEI	58	<1.0	<1.0	<1.5	<1.0	<2.0	2.7	<1.0	<10		
12/04/14	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10		
04/14/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10		
08/18/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10		
MW-28d	07/30/04	AEA	2,200	640	140	340	<50	---	83	7.7	<500	
	05/19/08	AEA	5,200	46	380	3.3	<1.0	---	260	0.47	138	
	03/11/09	BEI	7,200	<50	1,000	120	230	200	310	<50	150	
	10/28/09	BEI	12,000	52	1,600	<30	460	374	300	<20	260	
	11/15/11	BEI	12,000	49	2,500	29	940	353	220	<10	398	
	03/27/12	BEI	17,000	49	2,100	36	1,300	440	290	<10	386	
	06/28/12	BEI	20,000	56	2,100	61	1,400	590	340	<10	438	
	09/26/12	BEI	38,000	160	3,400	670	830	1,010	590	<100	480	
	01/23/13	BEI	23,000	100	2,200	<150	690	320	530	<100	330	
	04/04/13	BEI	27,000	55	2,300	72	900	323	670	<10	470	
	10/29/13	BEI	41,000	210	3,800	660	310	755	820	<10	140	
	01/31/14	BEI	26,000	<200	2,400	<300	550	<400	650	<200	310	
	08/19/14	BEI	40,000	<100	2,900	<150	930	230	850	<100	410	
	12/04/14	BEI	35,000	63	3,100	<75	750	120	890	<50	340	
	04/14/15	BEI	16	<1.0	2.5	<1.5	5.8	<2.0	19	<1.0	<10	
MW-29d	07/30/04	AEA	160	18	120	420	9.6					

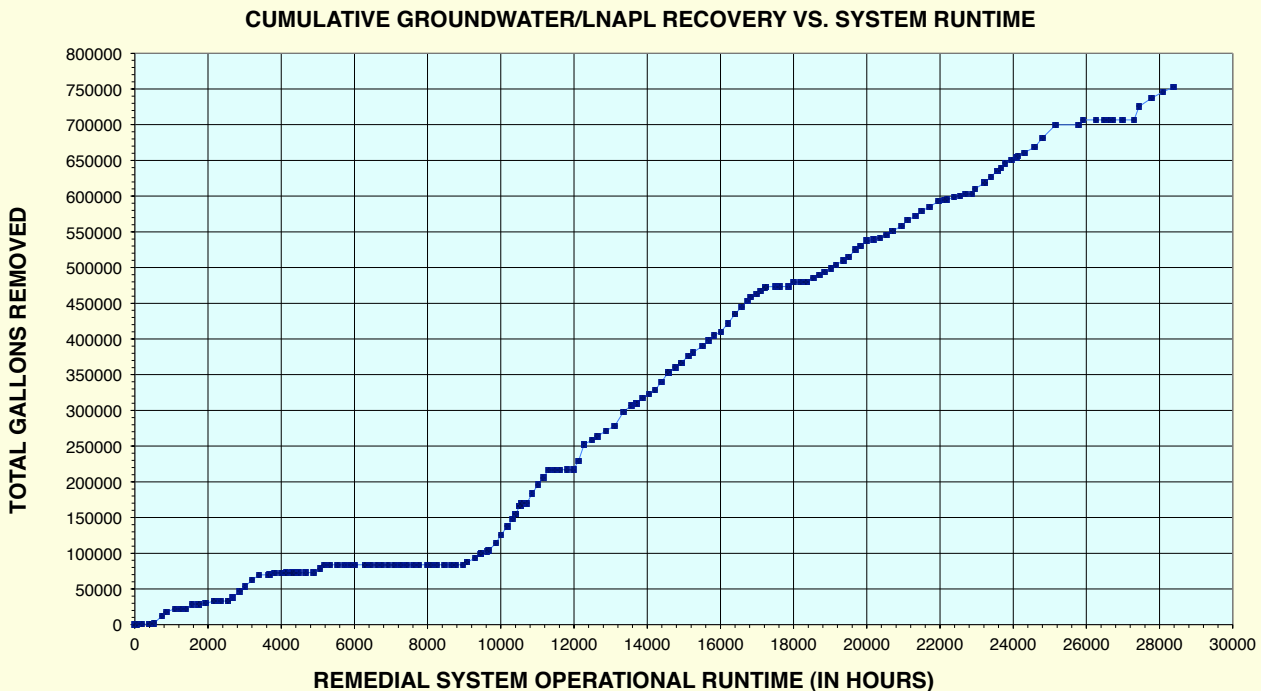
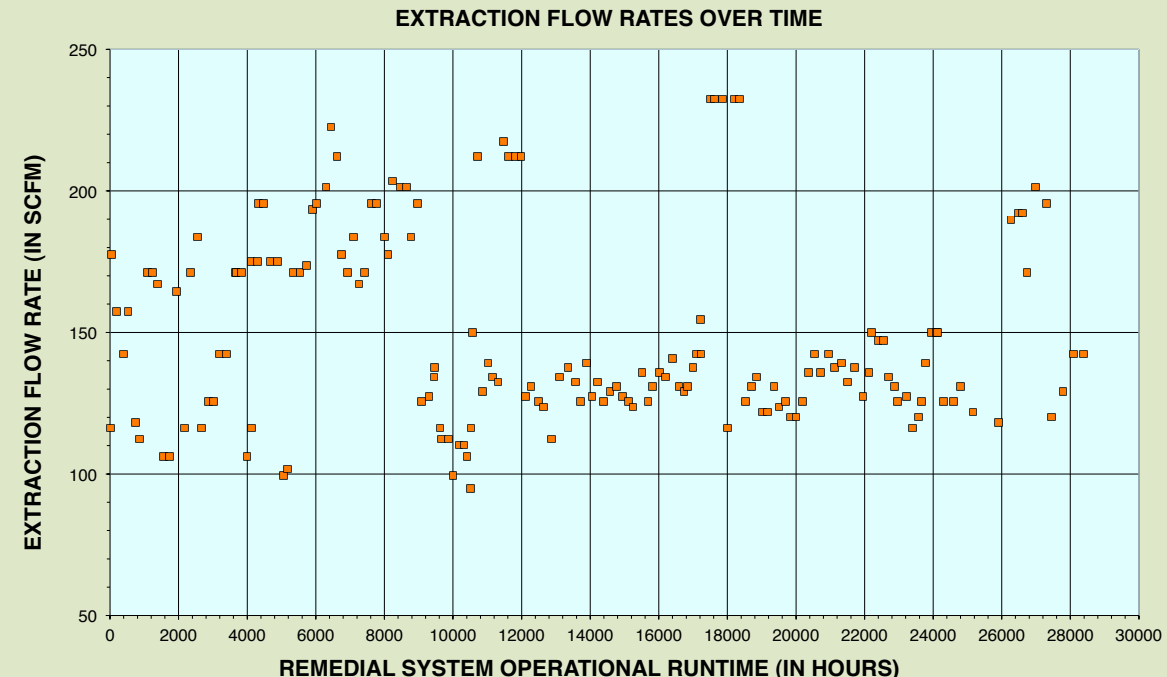
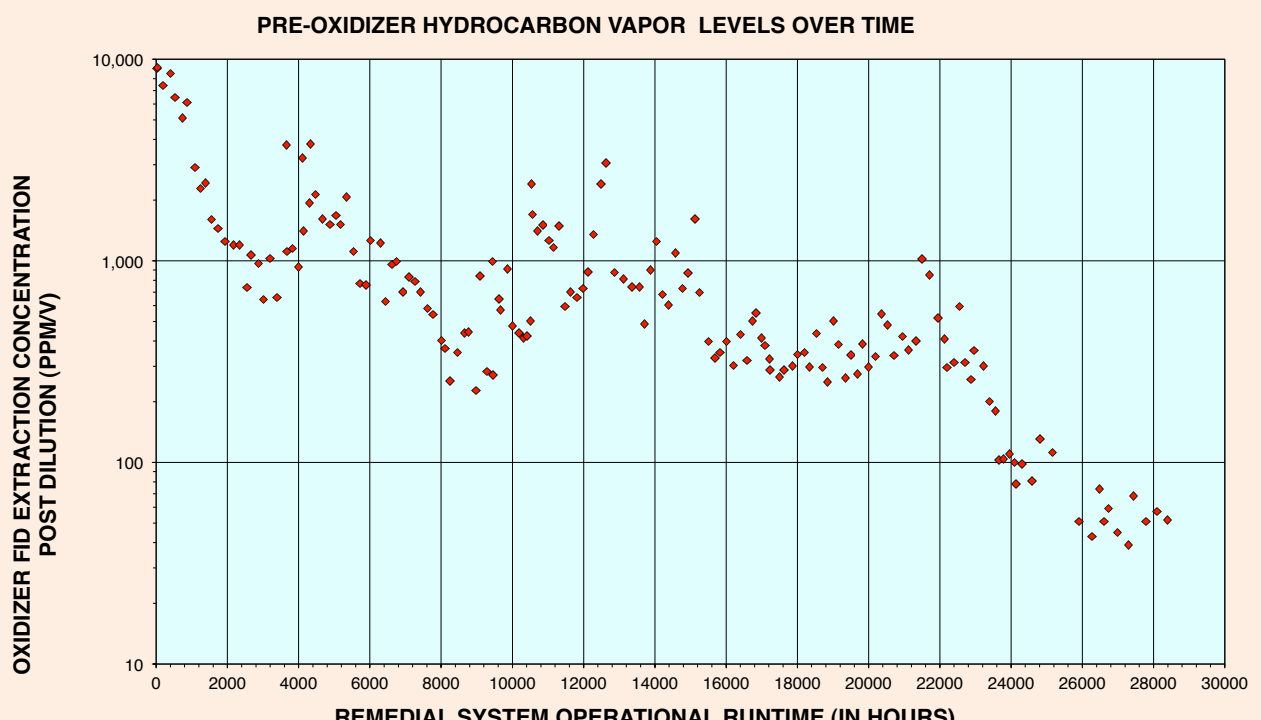
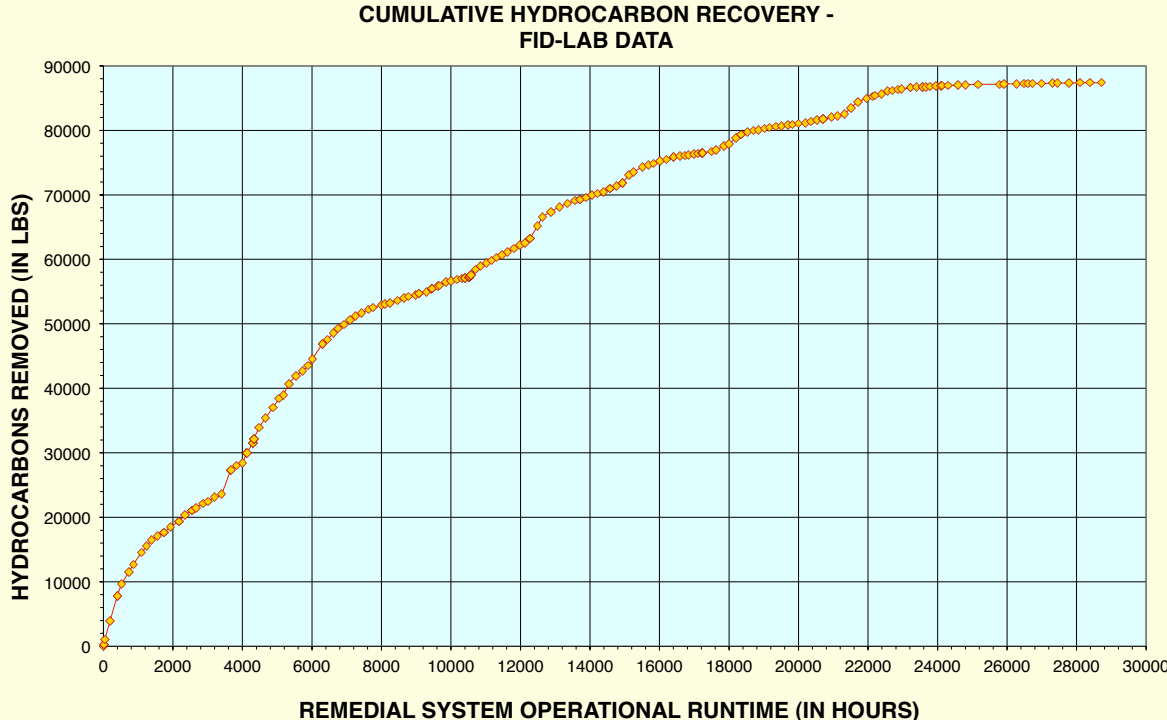
TABLE 2
SUMMARY OF ORGANIC GROUNDWATER LABORATORY ANALYTICAL DATA
FORMER HIGHWAY 70 SITE, PORTALES, NEW MEXICO

LOCATION OF WELL	SAMPLE DATE	SAMPLER	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	METHYL-TERTIARY BUTYL	TRI-METHYL BENZENES	1,2-DICHLORO-ETHANE	1,2-DIBROMO-ETHANE	NAPHTH + MONO-METHYL	
WQCC/PSTR STANDARDS			ug/l	ug/l	ug/l	ug/l	ug/l		ug/l	ug/l	ug/l	
			10	750	750	620	100		10	0.1	30	
BVE-4i (cont.)	12/04/14	BEI	25,000	<100	2,100	<150	620	440	700	<100	230	
	04/13/15	BEI	3.0	<1.0	<1.0	<1.5	4.7	<2.0	21	<1.0	<10	
	08/18/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	18	<1.0	<10	
BVE-5i	03/11/09	BEI	22,000	32,000	3,200	13,000	560	2,200	150	120	138	
	09/01/10	BEI	6,900	3,200	1,300	3,100	56	1,190	33	<10	534	
	03/27/12	BEI	1,000	970	230	1,000	18	360	<10	<10	194	
	01/22/13	BEI	4,800	3,700	990	3,500	<10	1,070	18	19	820	
	04/04/13	BEI	270	52	250	780	<10	810	<10	<10	730	
	01/30/14	BEI	<5.0	<5.0	<5.0	<7.5	<5.0	43	<5.0	<5.0	66	
	05/07/14	BEI	<1.0	<1.0	1.2	3.1	<1.0	27.6	<1.0	<1.0	231	
	08/18/14	BEI	<1.0	<1.0	<1.0	9.7	<1.0	40	<1.0	<1.0	27.3	
	12/04/14	BEI	<5.0	<5.0	<5.0	<7.5	<5.0	30.7	<5.0	<5.0	13	
	04/14/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	08/18/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	BVE-6i	03/11/09	BEI	5,800	440	1,200	1,000	<50	940	170	<50	326
10/29/09		BEI	5,400	230	1,400	730	25	710	130	<10	476	
09/02/10		BEI	7,800	100	1,000	210	<20	510	220	<20	321	
11/15/11		BEI	2,700	230	890	620	17	530	110	<10	349	
03/27/12		BEI	3,500	200	840	1,300	<10	700	93	<10	348	
06/28/12		BEI	3,200	53	740	430	<10	580	80	<10	354	
09/26/12		BEI	7,000	360	1,200	730	<20	430	140	<20	310	
01/21/13		BEI	730	<5.0	140	<7.5	<5.0	<10.0	25	<5.0	<50	
04/03/13		BEI	1,500	15	290	<7.5	<5.0	39	41	<5.0	72	
07/23/13		BEI	390	<1.0	83	<1.5	<1.0	3.9	19	<1.0	36.8	
07/23/13		BEI	380	<1.0	83	<1.5	<1.0	3.9	19	<1.0	39.5	
10/29/13		BEI	54	<1.0	36	<1.5	<1.0	<2.0	9.0	<1.0	7.7	
duplicate	01/29/14	BEI	19	<1.0	16	<1.5	<1.0	<2.0	4.0	<1.0	<10	
	01/29/14	BEI	18	<1.0	18	<1.5	<1.0	<2.0	4.1	<1.0	<10	
	05/09/14	BEI	35	1.2	51	<1.5	<1.0	<2.0	13	<1.0	22.7	
	08/18/14	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	12/05/14	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	04/13/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	08/18/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	BVE-7i	03/11/09	BEI	66,000	48,000	5,000	16,000	2,000	3,370	1,500	680	1,350
		06/29/12	BEI	15,000	16,000	2,300	12,000	630	3,270	200	150	1,890
		10/29/13	BEI	59	35	20	130	<20	150	<20	<20	<200
		01/30/14	BEI	1,300	400	130	2,300	18	920	47	<10	617
		05/08/14	BEI	190	32	24	820	<5.0	410	14	<5.0	389
08/18/14		BEI	110	13	19	160	<1.0	115	9.1	<1.0	57	
12/05/14		BEI	170	<1.0	2.4	13	<1.0	17.2	11	<1.0	35	
04/13/15		BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	<2.0	<2.0	<20	
08/19/15		BEI	<1.0	<1.0	<1.0	13	<1.0	89	1.3	<1.0	19.1	
BVE-8i		10/28/09	BEI	8.6	<1.0	<1.0	<1.5	<1.0	1.1	<1.0	<1.0	<10
	09/02/10	BEI	4.3	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	11/16/11	BEI	2.0	<2.0	<2.0	<3.0	<2.0	<4.0	<2.0	<2.0	<20	
	09/26/12	BEI	3.2	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	01/21/13	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	07/23/13	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	10/29/13	BEI	1.5	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	05/08/14	BEI	1.3	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	12/03/14	BEI	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	<2.0	<2.0	<20	
	BVE-9i	07/23/13	BEI	77	150	24	450	<10	106	<10	<10	<100
01/30/14		BEI	300	72	28	570	<10	480	<10	<10	371	
05/07/14		BEI	57	<5.0	<5.0	38	<5.0	201	<5.0	<5.0	450	
08/18/14		BEI	<1.0	<1.0	<1.0	2.6	<1.0	11.4	<1.0	<1.0	42.6	
12/04/14		BEI	1.1	<1.0	<1.0	16	<1.0	37.7	<1.0	<1.0	44	
12/04/14		BEI	1.0	<1.0	<1.0	14	<1.0	31.3	<1.0	<1.0	37	
04/13/15		BEI	<10	<10	<100	77	<10	690	<10	<10	970	
BVE-10i	08/18/15	BEI	<1.0	<1.0	<1.0	2.0	<1.0	192	<1.0	<1.0	260	
	04/03/13	BEI	4,600	160	590	700	240	600	81	<2.0	348	
	07/23/13	BEI	700	25	41	140	44	82	27	<10.0	26	
	01/30/14	BEI	14	<2.0	2.5	81	<2.0	39	3.5	<2.0	28.2	
	05/07/14	BEI	700	1.7	51	290	27	122	32	<1.0	165	
	08/18/14	BEI	2.6	<2.0	<2.0	<3.0	3.6	<4.0	9.5	<2.0	<20	
	12/04/14	BEI	7.7	<1.0	<1.0	5.2	<1.0	<2.0	6.5	<1.0	<10	
	04/13/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	3.9	<1.0	<10	
	08/18/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	1.6	<1.0	<10	
	08/18/15	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	1.6	<1.0	4.2	
BVE-11i	04/04/13	BEI	410	390	390	1,400	<20	970	57	<20	780	
	07/23/13	BEI	900	90	140	250	24	136	74	<1.0	74	
	10/30/13	BEI	1,100	<10	140	30	22	57	88	<10	33	
	08/18/14	BEI	56	200	88	630	<5.0	530	13	<5.0	1,250	
	08/19/15	BEI	4.9	250	110	530	<5.0	102	<5.0	<5.0	<50	
BMW-22i	10/28/09	BEI	1.4	3.5	<1.0	2.2	<1.0	<2.0	38	<1.0	<10	
	09/01/10	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	4.0	<1.0	<10	
	11/15/11	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	4.0	<1.0	<10	
	03/27/12	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	06/27/12	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	09/26/12	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	01/23/13	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	1.6	<1.0	<10	
	04/03/13	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	2.9	<1.0	<10	
	07/24/13	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	1.3	<1.0	<10	
	10/29/13	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	01/31/14	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	05/08/14	BEI	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<1.0	<1.0	<10	
	08/18/14	BEI	<1.0	<								

**APPENDIX A - MPVE-ENHANCED PRODUCT RECOVERY SYSTEM -
OPERATION AND MAINTENANCE SUMMARY - FORMER HIGHWAY 70 TRUCK STOP SITE PORTALES, NEW MEXICO 8/21/15**

[illegible]

**APPENDIX A - MPVE-ENHANCED PRODUCT RECOVERY SYSTEM -
OPERATION AND MAINTENANCE SUMMARY - FORMER HIGHWAY 70 TRUCK STOP SITE PORTALES, NEW MEXICO 8/21/15**

[illegible]



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

August 28, 2015

Bill Brown

Brown Environmental Inc.

P. O. Box 886

Placitas, NM 87043

TEL: (505) 934-7707

FAX (505) 858-0707

RE: Highway 70

OrderNo.: 1508B21

Dear Bill Brown:

Hall Environmental Analysis Laboratory received 17 sample(s) on 8/21/2015 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 qualifiers 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-Gi

Project: Highway 70

Collection Date: 8/18/2015 11:43:00 AM

Lab ID: 1508B21-001

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
Benzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 12:19:17 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 12:19:17 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 12:19:17 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 12:19:17 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-Gi

Project: Highway 70

Collection Date: 8/18/2015 11:43:00 AM

Lab ID: 1508B21-001

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 12:19:17 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 12:19:17 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 12:19:17 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 12:19:17 PM	R28464
Surr: 1,2-Dichloroethane-d4	98.4	70-130		%REC	1	8/25/2015 12:19:17 PM	R28464
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	8/25/2015 12:19:17 PM	R28464
Surr: Dibromofluoromethane	95.5	70-130		%REC	1	8/25/2015 12:19:17 PM	R28464
Surr: Toluene-d8	102	70-130		%REC	1	8/25/2015 12:19:17 PM	R28464

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-9i

Project: Highway 70

Collection Date: 8/18/2015 1:50:00 PM

Lab ID: 1508B21-002

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
Benzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Toluene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Ethylbenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2,4-Trimethylbenzene	120	10		µg/L	10	8/25/2015 1:45:28 PM	R28464
1,3,5-Trimethylbenzene	72	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Naphthalene	88	20		µg/L	10	8/25/2015 1:45:28 PM	R28464
1-Methylnaphthalene	72	40		µg/L	10	8/25/2015 1:45:28 PM	R28464
2-Methylnaphthalene	100	40		µg/L	10	8/25/2015 1:45:28 PM	R28464
Acetone	ND	10		µg/L	1	8/26/2015 11:55:27 AM	R28492
Bromobenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Bromodichloromethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Bromoform	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Bromomethane	ND	3.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
2-Butanone	ND	10		µg/L	1	8/26/2015 11:55:27 AM	R28492
Carbon disulfide	ND	10		µg/L	1	8/26/2015 11:55:27 AM	R28492
Carbon Tetrachloride	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Chlorobenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Chloroethane	ND	2.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Chloroform	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Chloromethane	ND	3.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
2-Chlorotoluene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
4-Chlorotoluene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
cis-1,2-DCE	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Dibromochloromethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Dibromomethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,1-Dichloroethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,1-Dichloroethene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2-Dichloropropane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,3-Dichloropropane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
2,2-Dichloropropane	ND	2.0		µg/L	1	8/26/2015 11:55:27 AM	R28492

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-9i

Project: Highway 70

Collection Date: 8/18/2015 1:50:00 PM

Lab ID: 1508B21-002

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
1,1-Dichloropropene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Hexachlorobutadiene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
2-Hexanone	ND	10		µg/L	1	8/26/2015 11:55:27 AM	R28492
Isopropylbenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
4-Isopropyltoluene	4.1	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
4-Methyl-2-pentanone	ND	10		µg/L	1	8/26/2015 11:55:27 AM	R28492
Methylene Chloride	ND	3.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
n-Butylbenzene	ND	3.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
n-Propylbenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
sec-Butylbenzene	2.3	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Styrene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
tert-Butylbenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
trans-1,2-DCE	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Trichlorofluoromethane	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Vinyl chloride	ND	1.0		µg/L	1	8/26/2015 11:55:27 AM	R28492
Xylenes, Total	2.0	1.5		µg/L	1	8/26/2015 11:55:27 AM	R28492
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	8/26/2015 11:55:27 AM	R28492
Surr: 4-Bromofluorobenzene	118	70-130		%REC	1	8/26/2015 11:55:27 AM	R28492
Surr: Dibromofluoromethane	90.3	70-130		%REC	1	8/26/2015 11:55:27 AM	R28492
Surr: Toluene-d8	98.0	70-130		%REC	1	8/26/2015 11:55:27 AM	R28492

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-5i

Project: Highway 70

Collection Date: 8/18/2015 2:40:00 PM

Lab ID: 1508B21-003

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
Benzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 2:14:19 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 2:14:19 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 2:14:19 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 2:14:19 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-5i

Project: Highway 70

Collection Date: 8/18/2015 2:40:00 PM

Lab ID: 1508B21-003

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 2:14:19 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 2:14:19 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 2:14:19 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 2:14:19 PM	R28464
Surr: 1,2-Dichloroethane-d4	91.0	70-130		%REC	1	8/25/2015 2:14:19 PM	R28464
Surr: 4-Bromofluorobenzene	80.3	70-130		%REC	1	8/25/2015 2:14:19 PM	R28464
Surr: Dibromofluoromethane	92.5	70-130		%REC	1	8/25/2015 2:14:19 PM	R28464
Surr: Toluene-d8	102	70-130		%REC	1	8/25/2015 2:14:19 PM	R28464

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-10i

Project: Highway 70

Collection Date: 8/18/2015 3:06:00 PM

Lab ID: 1508B21-004

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
Benzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2-Dichloroethane (EDC)	1.6	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 2:43:13 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 2:43:13 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 2:43:13 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 2:43:13 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-10i

Project: Highway 70

Collection Date: 8/18/2015 3:06:00 PM

Lab ID: 1508B21-004

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 2:43:13 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 2:43:13 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 2:43:13 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 2:43:13 PM	R28464
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%REC	1	8/25/2015 2:43:13 PM	R28464
Surr: 4-Bromofluorobenzene	91.5	70-130		%REC	1	8/25/2015 2:43:13 PM	R28464
Surr: Dibromofluoromethane	95.6	70-130		%REC	1	8/25/2015 2:43:13 PM	R28464
Surr: Toluene-d8	103	70-130		%REC	1	8/25/2015 2:43:13 PM	R28464

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-13i

Project: Highway 70

Collection Date: 8/18/2015 3:40:00 PM

Lab ID: 1508B21-005

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
Benzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2-Dichloroethane (EDC)	1.6	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
2-Methylnaphthalene	4.2	4.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 3:12:05 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 3:12:05 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 3:12:05 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 3:12:05 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-13i

Project: Highway 70

Collection Date: 8/18/2015 3:40:00 PM

Lab ID: 1508B21-005

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 3:12:05 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 3:12:05 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 3:12:05 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 3:12:05 PM	R28464
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%REC	1	8/25/2015 3:12:05 PM	R28464
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	8/25/2015 3:12:05 PM	R28464
Surr: Dibromofluoromethane	92.0	70-130		%REC	1	8/25/2015 3:12:05 PM	R28464
Surr: Toluene-d8	103	70-130		%REC	1	8/25/2015 3:12:05 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-4i

Project: Highway 70

Collection Date: 8/18/2015 4:55:00 PM

Lab ID: 1508B21-006

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2-Dichloroethane (EDC)	18	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 3:40:56 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 3:40:56 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 3:40:56 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 3:40:56 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-4i

Project: Highway 70

Collection Date: 8/18/2015 4:55:00 PM

Lab ID: 1508B21-006

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 3:40:56 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 3:40:56 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 3:40:56 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 3:40:56 PM	R28464
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	1	8/25/2015 3:40:56 PM	R28464
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	8/25/2015 3:40:56 PM	R28464
Surr: Dibromofluoromethane	93.3	70-130		%REC	1	8/25/2015 3:40:56 PM	R28464
Surr: Toluene-d8	101	70-130		%REC	1	8/25/2015 3:40:56 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-27d

Project: Highway 70

Collection Date: 8/18/2015 6:17:00 PM

Lab ID: 1508B21-007

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 4:09:47 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 4:09:47 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 4:09:47 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 4:09:47 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-27d

Project: Highway 70

Collection Date: 8/18/2015 6:17:00 PM

Lab ID: 1508B21-007

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 4:09:47 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 4:09:47 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 4:09:47 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 4:09:47 PM	R28464
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%REC	1	8/25/2015 4:09:47 PM	R28464
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	1	8/25/2015 4:09:47 PM	R28464
Surr: Dibromofluoromethane	93.7	70-130		%REC	1	8/25/2015 4:09:47 PM	R28464
Surr: Toluene-d8	103	70-130		%REC	1	8/25/2015 4:09:47 PM	R28464

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-2i

Project: Highway 70

Collection Date: 8/19/2015 7:45:00 AM

Lab ID: 1508B21-008

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
Benzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 4:38:37 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 4:38:37 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 4:38:37 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 4:38:37 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-2i

Project: Highway 70

Collection Date: 8/19/2015 7:45:00 AM

Lab ID: 1508B21-008

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 4:38:37 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 4:38:37 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 4:38:37 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 4:38:37 PM	R28464
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	1	8/25/2015 4:38:37 PM	R28464
Surr: 4-Bromofluorobenzene	97.0	70-130		%REC	1	8/25/2015 4:38:37 PM	R28464
Surr: Dibromofluoromethane	93.0	70-130		%REC	1	8/25/2015 4:38:37 PM	R28464
Surr: Toluene-d8	104	70-130		%REC	1	8/25/2015 4:38:37 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-24d

Project: Highway 70

Collection Date: 8/19/2015 9:10:00 AM

Lab ID: 1508B21-009

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 5:07:25 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 5:07:25 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 5:07:25 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 5:07:25 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-24d

Project: Highway 70

Collection Date: 8/19/2015 9:10:00 AM

Lab ID: 1508B21-009

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 5:07:25 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 5:07:25 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 5:07:25 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 5:07:25 PM	R28464
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%REC	1	8/25/2015 5:07:25 PM	R28464
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	8/25/2015 5:07:25 PM	R28464
Surr: Dibromofluoromethane	93.7	70-130		%REC	1	8/25/2015 5:07:25 PM	R28464
Surr: Toluene-d8	99.6	70-130		%REC	1	8/25/2015 5:07:25 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-11i

Project: Highway 70

Collection Date: 8/19/2015 9:37:00 AM

Lab ID: 1508B21-010

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
Benzene	4.9	2.5	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Toluene	250	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Ethylbenzene	110	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2,4-Trimethylbenzene	68	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,3,5-Trimethylbenzene	34	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Naphthalene	ND	10	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1-Methylnaphthalene	ND	20	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
2-Methylnaphthalene	ND	20	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Acetone	ND	50	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Bromobenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Bromodichloromethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Bromoform	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Bromomethane	ND	15	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
2-Butanone	ND	50	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Carbon disulfide	ND	50	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Carbon Tetrachloride	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Chlorobenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Chloroethane	ND	10	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Chloroform	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Chloromethane	ND	15	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
2-Chlorotoluene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
4-Chlorotoluene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
cis-1,2-DCE	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Dibromochloromethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Dibromomethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,1-Dichloroethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,1-Dichloroethene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2-Dichloropropane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,3-Dichloropropane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
2,2-Dichloropropane	ND	10	D	µg/L	5	8/25/2015 5:36:15 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-11i

Project: Highway 70

Collection Date: 8/19/2015 9:37:00 AM

Lab ID: 1508B21-010

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Hexachlorobutadiene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
2-Hexanone	ND	50	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Isopropylbenzene	8.0	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
4-Isopropyltoluene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
4-Methyl-2-pentanone	ND	50	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Methylene Chloride	ND	15	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
n-Butylbenzene	ND	15	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
n-Propylbenzene	11	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
sec-Butylbenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Styrene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
tert-Butylbenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
trans-1,2-DCE	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Trichlorofluoromethane	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
1,2,3-Trichloropropane	ND	10	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Vinyl chloride	ND	5.0	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Xylenes, Total	530	7.5	D	µg/L	5	8/25/2015 5:36:15 PM	R28464
Surr: 1,2-Dichloroethane-d4	93.8	70-130	D	%REC	5	8/25/2015 5:36:15 PM	R28464
Surr: 4-Bromofluorobenzene	85.8	70-130	D	%REC	5	8/25/2015 5:36:15 PM	R28464
Surr: Dibromofluoromethane	94.6	70-130	D	%REC	5	8/25/2015 5:36:15 PM	R28464
Surr: Toluene-d8	103	70-130	D	%REC	5	8/25/2015 5:36:15 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-26d

Project: Highway 70

Collection Date: 8/19/2015 10:14:00 AM

Lab ID: 1508B21-011

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
Benzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2-Dichloroethane (EDC)	1.3	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 6:05:03 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 6:05:03 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 6:05:03 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 6:05:03 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-26d

Project: Highway 70

Collection Date: 8/19/2015 10:14:00 AM

Lab ID: 1508B21-011

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 6:05:03 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 6:05:03 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 6:05:03 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 6:05:03 PM	R28464
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%REC	1	8/25/2015 6:05:03 PM	R28464
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	8/25/2015 6:05:03 PM	R28464
Surr: Dibromofluoromethane	91.0	70-130		%REC	1	8/25/2015 6:05:03 PM	R28464
Surr: Toluene-d8	101	70-130		%REC	1	8/25/2015 6:05:03 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BMW-23

Project: Highway 70

Collection Date: 8/19/2015 11:20:00 AM

Lab ID: 1508B21-012

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
Benzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2-Dichloroethane (EDC)	1.9	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 6:33:46 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 6:33:46 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 6:33:46 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 6:33:46 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BMW-23

Project: Highway 70

Collection Date: 8/19/2015 11:20:00 AM

Lab ID: 1508B21-012

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 6:33:46 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 6:33:46 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 6:33:46 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 6:33:46 PM	R28464
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%REC	1	8/25/2015 6:33:46 PM	R28464
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	8/25/2015 6:33:46 PM	R28464
Surr: Dibromofluoromethane	89.9	70-130		%REC	1	8/25/2015 6:33:46 PM	R28464
Surr: Toluene-d8	100	70-130		%REC	1	8/25/2015 6:33:46 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-29d

Project: Highway 70

Collection Date: 8/19/2015 12:13:00 PM

Lab ID: 1508B21-013

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 7:02:26 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 7:02:26 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 7:02:26 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 7:02:26 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: MW-29d

Project: Highway 70

Collection Date: 8/19/2015 12:13:00 PM

Lab ID: 1508B21-013

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 7:02:26 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 7:02:26 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 7:02:26 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 7:02:26 PM	R28464
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%REC	1	8/25/2015 7:02:26 PM	R28464
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	8/25/2015 7:02:26 PM	R28464
Surr: Dibromofluoromethane	87.3	70-130		%REC	1	8/25/2015 7:02:26 PM	R28464
Surr: Toluene-d8	102	70-130		%REC	1	8/25/2015 7:02:26 PM	R28464

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BMW-22

Project: Highway 70

Collection Date: 8/19/2015 1:15:00 PM

Lab ID: 1508B21-014

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
Benzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Methyl tert-butyl ether (MTBE)	13	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2-Dichloroethane (EDC)	3.0	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 7:31:07 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 7:31:07 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 7:31:07 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 7:31:07 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BMW-22

Project: Highway 70

Collection Date: 8/19/2015 1:15:00 PM

Lab ID: 1508B21-014

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 7:31:07 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 7:31:07 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 7:31:07 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 7:31:07 PM	R28464
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%REC	1	8/25/2015 7:31:07 PM	R28464
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	8/25/2015 7:31:07 PM	R28464
Surr: Dibromofluoromethane	89.8	70-130		%REC	1	8/25/2015 7:31:07 PM	R28464
Surr: Toluene-d8	102	70-130		%REC	1	8/25/2015 7:31:07 PM	R28464

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-7i

Project: Highway 70

Collection Date: 8/19/2015 1:30:00 PM

Lab ID: 1508B21-015

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
Benzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2,4-Trimethylbenzene	56	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,3,5-Trimethylbenzene	33	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2-Dichloroethane (EDC)	1.3	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Naphthalene	4.4	2.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1-Methylnaphthalene	4.7	4.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
2-Methylnaphthalene	5.0	4.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 7:59:49 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 7:59:49 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 7:59:49 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 7:59:49 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: BVE-7i

Project: Highway 70

Collection Date: 8/19/2015 1:30:00 PM

Lab ID: 1508B21-015

Matrix: AQUEOUS

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 7:59:49 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
4-Isopropyltoluene	1.4	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 7:59:49 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 7:59:49 PM	R28464
Xylenes, Total	13	1.5		µg/L	1	8/25/2015 7:59:49 PM	R28464
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%REC	1	8/25/2015 7:59:49 PM	R28464
Surr: 4-Bromofluorobenzene	98.1	70-130		%REC	1	8/25/2015 7:59:49 PM	R28464
Surr: Dibromofluoromethane	91.4	70-130		%REC	1	8/25/2015 7:59:49 PM	R28464
Surr: Toluene-d8	102	70-130		%REC	1	8/25/2015 7:59:49 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: TRIP BLANK

Project: Highway 70

Collection Date:

Lab ID: 1508B21-016

Matrix: TRIP BLANK

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Toluene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Ethylbenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Naphthalene	ND	2.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Acetone	ND	10		µg/L	1	8/25/2015 8:28:37 PM	R28464
Bromobenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Bromodichloromethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Bromoform	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Bromomethane	ND	3.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
2-Butanone	ND	10		µg/L	1	8/25/2015 8:28:37 PM	R28464
Carbon disulfide	ND	10		µg/L	1	8/25/2015 8:28:37 PM	R28464
Carbon Tetrachloride	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Chlorobenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Chloroethane	ND	2.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Chloroform	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Chloromethane	ND	3.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
2-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
4-Chlorotoluene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
cis-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Dibromochloromethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Dibromomethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,1-Dichloroethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,1-Dichloroethene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,3-Dichloropropane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
2,2-Dichloropropane	ND	2.0		µg/L	1	8/25/2015 8:28:37 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: TRIP BLANK

Project: Highway 70

Collection Date:

Lab ID: 1508B21-016

Matrix: TRIP BLANK

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst: AG			
1,1-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Hexachlorobutadiene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
2-Hexanone	ND	10		µg/L	1	8/25/2015 8:28:37 PM	R28464
Isopropylbenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
4-Isopropyltoluene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
4-Methyl-2-pentanone	ND	10		µg/L	1	8/25/2015 8:28:37 PM	R28464
Methylene Chloride	ND	3.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
n-Butylbenzene	ND	3.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
n-Propylbenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
sec-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Styrene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
tert-Butylbenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
trans-1,2-DCE	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Trichlorofluoromethane	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Vinyl chloride	ND	1.0		µg/L	1	8/25/2015 8:28:37 PM	R28464
Xylenes, Total	ND	1.5		µg/L	1	8/25/2015 8:28:37 PM	R28464
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	1	8/25/2015 8:28:37 PM	R28464
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	8/25/2015 8:28:37 PM	R28464
Surr: Dibromofluoromethane	92.8	70-130		%REC	1	8/25/2015 8:28:37 PM	R28464
Surr: Toluene-d8	99.8	70-130		%REC	1	8/25/2015 8:28:37 PM	R28464

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1508B21

Date Reported: 8/28/2015

CLIENT: Brown Environmental Inc.

Client Sample ID: SVE Influent

Project: Highway 70

Collection Date: 8/21/2015 12:05:00 PM

Lab ID: 1508B21-017

Matrix: AIR

Received Date: 8/21/2015 5:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE				Analyst: NSB			
Gasoline Range Organics (GRO)	94	5.0		µg/L	1	8/26/2015 12:37:38 PM	R28483
Surr: BFB	213	45.5-220		%REC	1	8/26/2015 12:37:38 PM	R28483
EPA METHOD 8021B: VOLATILES				Analyst: NSB			
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	8/26/2015 12:37:38 PM	a28483
Benzene	ND	0.10		µg/L	1	8/26/2015 12:37:38 PM	a28483
Toluene	ND	0.10		µg/L	1	8/26/2015 12:37:38 PM	a28483
Ethylbenzene	0.12	0.10		µg/L	1	8/26/2015 12:37:38 PM	a28483
Xylenes, Total	3.4	0.20		µg/L	1	8/26/2015 12:37:38 PM	a28483
Surr: 4-Bromofluorobenzene	101	56.8-158		%REC	1	8/26/2015 12:37:38 PM	a28483

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B21

28-Aug-15

Client: Brown Environmental Inc.

Project: Highway 70

Sample ID	1508B21-017ADUP	SampType:	DUP	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SVE Influent	Batch ID:	R28483	RunNo:	28483					
Prep Date:		Analysis Date:	8/26/2015	SeqNo:	860979	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	90	5.0						4.44	20	
Surr: BFB	4000		2000		201	45.5	220	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B21

28-Aug-15

Client: Brown Environmental Inc.

Project: Highway 70

Sample ID	1508B21-017ADUP	SampType:	DUP	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SVE Influent	Batch ID:	a28483	RunNo:	28483					
Prep Date:		Analysis Date:	8/26/2015	SeqNo:	861098	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.25						0	20	
Benzene	ND	0.10						0	20	
Toluene	ND	0.10						0	20	
Ethylbenzene	0.12	0.10						2.79	20	
Xylenes, Total	3.3	0.20						2.38	20	
Surr: 4-Bromofluorobenzene	2.0		2.000		101	56.8	158	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B21

28-Aug-15

Client: Brown Environmental Inc.

Project: Highway 70

Sample ID	100ng lcs		SampType: LCS			TestCode: EPA Method 8260B: VOLATILES				
Client ID:	LCSW		Batch ID: R28464			RunNo: 28464				
Prep Date:			Analysis Date: 8/25/2015			SeqNo: 860307		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	20	1.0	20.00	0	99.3	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	118	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.7		10.00		96.8	70	130			

Sample ID	1508b21-001a ms		SampType: MS			TestCode: EPA Method 8260B: VOLATILES				
Client ID:	BVE-6i		Batch ID: R28464			RunNo: 28464				
Prep Date:			Analysis Date: 8/25/2015			SeqNo: 860311		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0.2032	102	70	130			
Toluene	20	1.0	20.00	0	99.7	70	130			
Chlorobenzene	20	1.0	20.00	0	100	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	113	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	89.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.3	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.6	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID	1508b21-001a msd		SampType: MSD			TestCode: EPA Method 8260B: VOLATILES				
Client ID:	BVE-6i		Batch ID: R28464			RunNo: 28464				
Prep Date:			Analysis Date: 8/25/2015			SeqNo: 860312		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0.2032	95.8	70	130	6.03	20	
Toluene	20	1.0	20.00	0	99.2	70	130	0.495	20	
Chlorobenzene	20	1.0	20.00	0	99.2	70	130	1.20	20	
1,1-Dichloroethene	22	1.0	20.00	0	108	70	130	3.89	20	
Trichloroethene (TCE)	17	1.0	20.00	0	86.7	70	130	3.01	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		99.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130	0	0	
Surr: Dibromofluoromethane	9.3		10.00		92.7	70	130	0	0	
Surr: Toluene-d8	10		10.00		102	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B21

28-Aug-15

Client: Brown Environmental Inc.

Project: Highway 70

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R28464			RunNo: 28464					
Prep Date:		Analysis Date: 8/25/2015			SeqNo: 860347	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.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B21

28-Aug-15

Client: Brown Environmental Inc.

Project: Highway 70

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R28464			RunNo: 28464					
Prep Date:		Analysis Date: 8/25/2015			SeqNo: 860347		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	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: R28492			RunNo: 28492					
Prep Date:		Analysis Date: 8/26/2015			SeqNo: 861567		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.9	70	130			
Toluene	18	1.0	20.00	0	90.9	70	130			
Chlorobenzene	18	1.0	20.00	0	89.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B21

28-Aug-15

Client: Brown Environmental Inc.

Project: Highway 70

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID:	R28492	RunNo:	28492					
Prep Date:		Analysis Date:	8/26/2015	SeqNo:	861567	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	100	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	79.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	9.8		10.00		97.8	70	130			

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	R28492	RunNo:	28492					
Prep Date:		Analysis Date:	8/26/2015	SeqNo:	861586	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								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
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								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508B21

28-Aug-15

Client: Brown Environmental Inc.

Project: Highway 70

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: R28492			RunNo: 28492					
Prep Date:		Analysis Date: 8/26/2015			SeqNo: 861586	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130			
Surr: Toluene-d8	9.6		10.00		96.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit



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: Brown Env

Work Order Number: 1508B21

RcptNo: 1

Received by/date:

CS

08/21/15

Logged By: Ashley Gallegos

8/21/2015 5:00:00 PM

Ag

Completed By: Ashley Gallegos

8/21/2015 6:26:36 PM

Ag

Reviewed By:

SA

08/24/15

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 $>0^{\circ}\text{C}$ to 6.0°C

Yes ☒

No ☐

NA ☐

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 ☒

of preserved bottles checked for pH:

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

(<2 or >12 unless noted)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

Adjusted?

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

Checked by:

(If no, notify customer for authorization.)

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	4.4	Good	Not Present			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Chain-of-Custody Record				Turn-Around Time:		
Client: <u>Brown Environmental Inc.</u> Mailing Address: <u>P.O. Box 886</u> <u>Placitas NM 87043</u> Phone #: <u>505 934-7707</u> email or Fax#: _____				☒ Standard ☐ Rush		
				Project Name: _____		
QA/QC Package: ☒ X Standard ☐ Level 4 (Full Validation) Accreditation ☐ NELAP ☐ Other _____ ☐ EDD (Type) _____				Project Manager: <u>Bill Brown</u>		
				Sampler: <u>B. Brown</u> On Ice: ☒ Yes ☐ No Sample Temperature: <u>4.4°C</u>		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
8/18/15	11:43	H ₂ O	BVE-6i	36013	BOL	1508821
8/18/15	13:30	H ₂ O	BVE-9i	"	"	-001
8/18/15	14:40	H ₂ O	BVE-5i	"	"	-003
8/18/15	15:06	H ₂ O	BVE-10i	"	"	-004
8/18/15	15:40	H ₂ O	BVE-13i	"	"	-005
8/19/15	7:53	H ₂ O	BVE-4w	"	"	-006
8/19/15	18:17	H ₂ O	MW-27d	"	"	-007
8/19/15	7:45	H ₂ O	BVE-2i	"	"	-008
8/19/15	9:10	H ₂ O	MW-24d	"	"	-009
8/19/15	9:37	H ₂ O	BVE-16i	"	"	-010
8/19/15	10:14	H ₂ O	MW-26d	"	"	-011
8/19/15	11:20	H ₂ O	MW-23	"	"	-012
Date: <u>8/12/15</u> Time: <u>17:00</u> Received by: <u>[Signature]</u>				Received by: <u>Adam Smith</u> Date: <u>08/21/15</u> Time: <u>1700</u>		
Date: _____ Time: _____ Relinquished by: _____				Date: _____ Time: _____ Relinquished by: _____		

Chain-of-Custody Record

Client: Brown Environmental Inc

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard

☐ Level 4 (Full Validation)

Accreditation

☐ NELAP

☐ Other

☐ EDD (Type)

Date

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No.

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Project #:

Project Manager:

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature:

Analysis Request

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, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Date:

Time:

Relinquished by:

Date:

Time:

Relinquished by:

Received by:

Date

Time

Remarks: