Proactive by Design

MONITORING REPORT – 2021

642 Allens Avenue
Providence, Rhode Island

September 9, 2022
GZA File No.: 03.0033554.01
RIDEM Case No. 98-004 / File No. SR-28-1152

PREPARED FOR:
Rhode Island Department of Environmental Management (RIDEM)
Providence, Rhode Island

ON BEHALF OF:
Rhode Island Energy™
a PPL company

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September 9, 2022
File No. 03.0033554.01

Via E-Mail and U.S. Mail

Mr. Joseph Martella
Rhode Island Department of Environmental Management (RIDEM)
Office of Land Revitalization and Sustainable Materials Management
235 Promenade Street
Providence, Rhode Island 02908

Re: Monitoring Report – 2021
642 Allens Avenue
Providence, Rhode Island
RIDEM Case No. 98-004 / Site Remediation File No. SR-28-1152

Dear Mr. Martella:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy, GZA GeoEnvironmental, Inc. (GZA) is pleased to present to the Rhode Island Department of Environmental Management (RIDEM) the attached *Monitoring Report* for the Former 642 Allens Avenue Manufactured Gas Plant (MGP) located at 642 Allens Avenue in Providence, Rhode Island (the Site). This report describes Site monitoring activities that were performed at the above referenced Site during the 2021 monitoring period. As described in the attached report, these Site monitoring activities include routine shoreline observations, groundwater elevation and non-aqueous phase liquid gauging, and groundwater quality monitoring.

Should you have any questions or comments regarding the information presented herein, please do not hesitate to contact the undersigned at (401) 421-4140 or Ms. Amy Willoughby of The Narragansett Electric Company at 401-258-5410.

Very truly yours,
GZA GEOENVIRONMENTAL, INC.

Sara Haupt, P.E.
Project Manager

James J. Clark, P.E.
Senior Principal

Margaret S. Kilpatrick, P.E.
Principal

Attachment: *Monitoring Report – 2021*

cc: Amy Willoughby, The Narragansett Electric Company

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

On behalf of The Narragansett Electric Company (TNEC), d/b/a Rhode Island Energy, GZA GeoEnvironmental Inc. (GZA) has prepared this *Monitoring Report* describing activities performed at the Former 642 Allens Avenue Manufactured Gas Plant (MGP) located at 642 Allens Avenue in Providence, Rhode Island. The Site is also defined as Providence Tax Assessors Plat (A.P.) 101 Lot 1 and A.P. 56 Lot 5, 273, 316 and 317. These properties are collectively referred to herein as the "Site." This report describes monitoring activities that were performed at the Site during the 2021 monitoring period. As described further herein, annual monitoring performed in 2021 consisted of approximately monthly routine shoreline observations, semi-annual groundwater elevation/non-aqueous phase liquid (NAPL) gauging events, and an annual groundwater quality sampling event. **Figure C1** (*Title Sheet and Index to Drawings*) presents the Site Locus Plan and **Figure 2** (*Overall Aerial*) presents the location of the Site. **Figure N1** (*General Notes and Legend)* was prepared to provide the legend and notes for the Site plans.

This report is subject to the Limitations presented in **Appendix A** *(Limitations)***.**

1.1 SITE DESCRIPTION

The Site was the location of the Former 642 Allens Avenue MGP. The Site is now largely occupied with natural gas utility operations, which serve the City of Providence and the State of Rhode Island. The Site is located on the east side of Allens Avenue, northeast of the intersection of Allens Avenue and Terminal Road in the City of Providence, Rhode Island (refer to **Figure C1**). The majority of the Site is secured with a locked perimeter chain-link fence. The configuration of this perimeter fencing is shown on **Figure 3A** (*Exploration Location Plan – Former CNG Facility and Natural Gas Regulation Facility*) and **Figure 3B** (*Exploration Location Plan – LNG Facility and Holcim Cement Facility)*.

The approximately 41-acre Site is identified in the City of Providence Tax Assessor's Office as Assessors Plat (A.P.) 56, Lots 5, 273, 316, and 317, and as A.P. 101, Lot 1. The entirety of the Site is currently owned by The Narragansett Electric Company. National Grid LNG, LLC (NGLNG) holds a lease on A.P. 56 Lot 316 and Lafarge Holcim US, Inc. (Holcim) holds a lease on A.P. 56 Lot 273. The entirety of the Site is zoned by the City of Providence as W-3 (Port/Maritime Industrial Waterfront District). The W-3 Port/Maritime Industrial Waterfront District is intended "to promote maritime industrial and commercial uses within the areas of Providence's waterfront, protect the waterfront as a resource for water-dependent industrial uses, and facilitate the renewed use of a vital waterfront". The current Site layout and key features are shown on **Figure 3A** and **Figure 3B**.

For the purpose of this report, the Site has been subdivided into four areas based on current use. **Figure 3A** and **Figure 3B** presents the location and configuration of the following areas:

- Former CNG Facility (portion of A.P. 101 Lot 1);
- Natural Gas Regulation Facility (portion of A.P. 101 Lot 1 and A.P. 56 Lot 5);
- LNG Facility (A.P. 56 Lot 316); and
- Holcim Cement Facility (A.P. 56 Lots 273 and 317).

The following table summarizes the five parcels that make up these four Site areas. Parcel locations are also shown on **Figure 2**.

A.P.	Lot	Lot Size (Acres)	Current Owner	Address	Current Use(s)
101	1	11.35	TNEC	642 Allens Avenue 670 Allens Avenue	Natural Gas Construction Storage Natural Gas Regulation and Distribution Former CNG Fueling Station
56	5	8.90	TNEC	642 Allens Avenue	Natural Gas Construction Storage Natural Gas Regulation and Distribution
56	273	3.90	TNEC	139 Terminal Road	Cement Storage and Distribution
56	316	16.36	TNEC	121 Terminal Road	LNG Facility
56	317	0.49	TNEC	121 Terminal Road	Access Road

The Site has frontage on Allens Avenue to the west and is bounded to the east by the Providence River. It is adjoined to the northwest by Triton Terminaling, LLC, and to the south by Terminal Road, the Former Sun Oil/Providence Port facility, and New England Bituminous Terminal Corporation. **Figure 2** presents the location of the Site and these abutting lots. The area surrounding the Site is industrial in nature, with parcels zoned W-3 or M-2 (both industrial type zoning). The nearest residential lot is located over 1,000 feet to the south of the Site.

Based on review of information presented in the Environmental Resource map maintained by RIDEM (http://www.dem.ri.gov/maps/), groundwater in the area of the Site is classified as "GB," which indicates that groundwater may not be suitable for public or private drinking water use without treatment due to known or presumed degradation.

1.2 SITE BACKGROUND

Historical Site operations have included the former MGP, former liquid petroleum gas (LPG)/ propane gas storage and distribution, and former petroleum storage and distribution. **Figure 3A** and **Figure 3B** present a compilation of relevant historical features and structures associated with past Site operations.

The former MGP operated from 1910 to 1953 and generated gas using the coal carbonization, carbureted water gas, oil gas and producer gas processes. Other by-products, such as tar, ammonia, cyanogen, naphthalene, light oils, hydrogen sulfide, and spent oxides, were removed during the process of gas condensing and purifying in the Former Condenser House (Former Compressor Building No. 1) and the Former Coal Gas Purifier House (present Compressor Building No. 2). Gasification operations were generally conducted proximate to the current LNG facility (**Figure 3B**), with regulating and distribution of the gas closer to the current Natural Gas Regulating Facility (**Figure 3A**).

The LPG plant operated from 1952 to mid-1960s and the propane gas storage and distribution plant operated from the 1960s to the 1980s. These operations supplemented manufactured and natural gas during peak gas demands. LPG/propane operations were generally conducted proximate to the center of the Site near the Former Propane House (**Figure 3A** and **Figure 3B**).

Petroleum products used in the production of manufactured gas was stored in two aboveground storage tanks located at the northeast corner of the Site (proximate to the current LNG tank – **Figure 3B**). Reportedly, Providence Gas Company also constructed an oil or tar storage facility in 1953 (location unknown). Additionally, Gulf Oil Corporation leased a portion of the Site during 1957 and built four aboveground storage tanks (ASTs) for kerosene storage on the premises (exact location of all tanks unknown, although known to be proximate to the existing LNG facility, the location of one of the tanks is shown on **Figure 3B**).

GZA conducted supplemental investigation activities at the Site in 2014, with follow up activities conducted in 2016 and 2017. A summary of these activities, relevant regulatory history of the Site and other background information will be included in an addendum to the April 2003 Site Investigation Report (SIR). This SIR Addendum is expected to be submitted

to RIDEM in 2022. In order to accommodate ongoing projects at the Site, forty-four (44) monitoring wells were decommissioned in 2016. In 2021, GZA re-installed five (5) new monitoring wells, see Section 2.3 below for details. Until these projects are complete, an interim groundwater monitoring program will be performed annually.

2.0 RESULTS OF MONITORING PROGRAM

This section presents the results of the 2021 monitoring program. As indicated previously, this monitoring program consists of monthly shoreline observations, semi-annual groundwater elevation monitoring and NAPL monitoring/recovery, and annual groundwater quality sampling and analysis.

2.1 SHORELINE OBSERVATIONS

Between January and December 2021, the shoreline adjacent to the Site was inspected for the presence of sheens in the Providence River on at least a monthly basis. Portions of the Site's shoreline are surrounded by both hard boom and absorbent sausage boom to contain any observed sheen. This boom has been in place since at least 2002. The current boom configuration is shown on **Figure 3B.** Sheens have been observed intermittently proximate to the shoreline in the cove area. More significant sheens were observed at mid-tide and generally consisted of dull to bright plates of sheen. Sheens observed at high or low tide generally consisted of slight and minor dull plates of sheen. A summary of sheen observations proximate to the cove area is presented in **Table 1** (*Summary of Sheen Observations – 2011 to 2021)*.

2.2 NAPL AND GROUNDWATER ELEVATION MONITORING

Comprehensive gauging rounds of the groundwater monitoring well network are conducted semi-annually for the presence of NAPL and collection of groundwater elevation readings. Gauging was performed in June 2021 and November 2021. **Figure 4** (*Groundwater Monitoring Wells)* presents the location of all monitoring wells at the Site and **Figure 5** (*Shallow Groundwater Contours (November 2021))* presents the shallow groundwater elevations contours based on measurements collected in November 2021. In addition, monthly NAPL measurements were collected from GZ-307S to delineate the extent of NAPL observations. GZ-307S is located proximate to the northern property line near the Gas Control Building (refer to **Figure 3A).** During the gauging events, depth to groundwater and measurements of the presence and thickness of NAPL were recorded. NAPL measurements were gauged using an oil-water interface probe. To gauge the presence of light non-aqueous phase liquid (LNAPL), the probe was lowered into the well until the probe's continuous alarm indicated the presence of LNAPL. When the probe passes through the LNAPL into groundwater, an intermittent alarm is triggered. This information was used to gauge the thickness of LNAPL. Gauging for the presence of dense non-aqueous phase liquid (DNAPL) was conducted in the same manner as the LNAPL. Once the continuous alarm of the interface probe was heard, measurements were recorded to the bottom of the well to record product thickness. Note, because the wells serve to collect these materials, NAPL thickness measurements in groundwater monitoring wells are typically greater than the actual thickness of NAPL in the surrounding formation.

Consistent with previous events, measurable NAPL was only detected in GZ-307S during this annual monitoring period. However, evidence of dull sheen was observed on purge water from monitoring wells GZA-201, well GZ-319D had an oil-like odor and wells RCA-1 and RCA-15 had a rust-like color on the purge water during the November 2021 groundwater sampling event. Refer to groundwater sampling logs in **Appendix B** (*Groundwater Sampling Low Flow Logs)* for additional information.

The following tables were prepared to present gauging data collected:

- **Table 2** (*Summary of Groundwater and NAPL Gauging Results);*
- **Table 3** (*Historical Light Non-Aqueous Phase Liquid (LNAPL) Well Gauging Data);*
- **Table 4** (*Historical Dense Non-Aqueous Phase Liquid (DNAPL) Well Gauging Data);* and

- **Table 5** (*LNAPL Gauging and Recovery – GZ-307S).*

2.2.1 LNAPL Observations and Recovery

Observations of LNAPL in groundwater monitoring wells has been limited to certain isolated areas of the Site, generally in areas that were formerly utilized for gas manufacturing. As indicated in **Table 2** and **Table 3**, between November 2001 and November 2021, only fifteen (15) of the wells had product present at greater than or equal to 0.01 feet. These well locations are presented on **Figure 6** (*Historical NAPL Thickness (≥0.01 feet) (2001-2021))*. The majority of LNAPL detections were less than 0.40 feet in thickness.

GZA-307S was the only monitoring well to contain trace to measurable LNAPL in 2021 as presented in **Table 5**. GZ-307S was installed in 2014 to delineate the extent of LNAPL observed along the northern property line. Observations of LNAPL at this well location are performed on an approximate monthly basis. During 2021, trace to 0.03 feet of LNAPL was detected in this well during the monthly gauging events (refer to Table 5), with the exception of the November monthly gauging, which no LNAPL was detected within the well. Due to the limited thickness (less than 0.1 feet), no measurable quantity of LNAPL/groundwater mixture was recovered from GZ-307S during 2021.

2.2.2 DNAPL Observations

As indicated in **Table 2** and **Table 4**, between November 2001 and November 2021, DNAPL was encountered in only one (1) monitoring well (RCA-3), located in the north-central portion of the Site proximate to the cove, as shown on **Figure 3B**. With the exception of 0.17 feet detected in November 2001, DNAPL observations at this location have been limited to trace amounts. In 2014, a deeper monitoring well was installed (GZ-313D) near the location of RCA-3 to assess the vertical extent of DNAPL in this area. DNAPL was not encountered in GZ-313D between 2014 and 2016. Both RCA-3 and GZ-313D were decommissioned in July 2016. DNAPL was not encountered in any remaining monitoring wells in 2021.

2.3 NEW MONITORING WELL INSTALLATION

Five (5) monitoring wells (GZ-500S, GZ-500D, GZ-501S, GZ-502S, and GZ-503S) were installed on Site from September 14 to September 15, 2021 by New England Geotech via geoprobe drilling techniques, to replace the seven (7) monitoring wells within the former Holder 18/21 area (RCA-11, VHB-8R, VHB-10, VHB-18, GZ-320D, GZ-401, and GZ-403) and to supplement existing monitoring well coverage at the Site.

Monitoring wells (GZ-500S, GZ-501S, GZ-502S) were installed on September 14, 2021, and monitoring wells (GZ-500D and GZ-503S) were installed on September 15, 2021. Wells were constructed of 2-inch diameter Schedule 40 PVC in accordance with the standards specified in Rhode Island Water Quality Regulations (https://rules.sos.ri.gov/regulations/part/250-150-05-3). Strategic Environmental Services assisted New England Geotech by providing soil vactor truck excavation at the areas of well installation.

Newly installed wells were developed (removal of sediment build-up within the well) by GZA on September 22, 2021. The development process was performed via repetition of surging a bailer through the length of the well screen and pumping out standing groundwater. When the well was dried, it was allowed to recharge, and the process was repeated until water quality was reasonably non-turbid. Debris from development activities were containerized in an existing Oily Debris drum located in Compressor House #2. Two (2) 55-gallon drums of purge water were generated from well development activities and were transported off Site for disposal at the Clean Harbors facility in Bristol, Connecticut by Clean Harbors. A copy of the disposal manifest is provided in **Appendix C** *(Investigation Derived Waste (IDW) Shipping Records)*.

Dull sheen was observed in purge water from monitoring wells GZ-500S, GZ-500D, GZ-501S and GZ-503S. The purge water generated from GZ-503S was also observed to have a petroleum-like sheen. Approximately 1/2-gallon of purge water was developed from GZA-503S due to shallow standing water in the well and a slow recharge. Geoprobe logs from the new monitoring well installation are provided in **Appendix E** (*New Monitoring Well Installation)* for additional information.

2.4 GROUNDWATER FLOW DIRECTION

Comprehensive elevation gauging rounds of the groundwater monitoring well network were performed in June 2021 and November 2021. These depths to groundwater readings were used to calculate the elevation of the groundwater table at each well location. Monitoring well reference elevation and depth to groundwater measurements are presented in **Table 2**. **Table 2** also includes groundwater elevation data collected by GZA since July 2011 during our initial assessment of well conditions at the Site. The comprehensive groundwater elevations recorded during the November 2021 gauging round were used to prepare the shallow groundwater contours presented on **Figure 5.**

Site groundwater elevations are tidally influenced and have been observed to fluctuate approximately 3 feet between mean low and mean high water. Groundwater was encountered in many of the explorations at the Site at depths ranging from approximately 3 to 13 feet bgs (ranging from elevation 7 feet NAVD 88 to 1 feet NAVD 88), with shallower groundwater being encountered close to the Providence River at the LNG Facility. Shallower groundwater was also encountered proximate to the northern Site boundary in the Natural Gas Regulation Facility. Groundwater in this area is likely influenced by utility corridors. As presented on **Figure 5**, groundwater beneath the Site flows from west to east towards the Providence River, consistent with surrounding topography.

2.5 GROUNDWATER SAMPLING TECHNIQUES

As shown on **Figure 4**, the groundwater monitoring well network consisted of thirty-six (36) groundwater monitoring wells in 2021. In November 2021, groundwater quality samples were collected from seventeen (17) monitoring wells: RCA-1, RCA-12R, RCA-15, RCA-22, RCA-31, RCA-36, VHB-1, VHB-20, GZA-201, GZ-301D, GZ-304D, GZ-309D, GZ-319D, GZ-500S, GZ 500D, GZ-501S, and GZ-502S. These well locations were chosen to provide a representative evaluation of overall Site groundwater quality.

During the November 2021 round, groundwater samples were collected in general accordance with EPA's September 19, 2017, Low Stress (low flow) Purging and Sampling Procedure. Prior to sampling, the depth to static groundwater and any NAPL present was measured in each well using an ORS electronic oil/water interface probe. During groundwater sampling, a variable speed peristaltic pump was utilized to control the rate of purging. Dedicated 1/4-inch polyethylene tubing installed in each of the existing wells was utilized as the intake and discharge tubing for the pumps. This tubing has the potential to become brittle when exposed to UV light (sunlight) and where necessary this tubing is typically replaced. No tubing needed replacement during the November 2021 sampling round due to sunlight exposure. Groundwater sampling logs are included in **Appendix B**. Pharmaceutical grade tubing was utilized as the pump head tubing and connected to the intake and discharge tubing by clamps sufficient to prevent the introduction of air into the sample. If NAPL was noted in the monitoring well prior to sampling, new tubing was installed in the monitoring well. In order to limit the potential for LNAPL to enter the sampling tubing during the collection of the sample, a peristaltic pump was used to force air through the tubing as it passed through the LNAPL/groundwater interface. If DNAPL was noted in the well, the sampling tubing was installed in these wells carefully so that the DNAPL layer was not intercepted.

During sampling, field readings were recorded for pH, temperature, specific conductance, oxidation reduction potential (ORP) and dissolved oxygen (DO) using a YSI Professional Plus® portable water quality meter with a flow-through cell. A LaMotte Turbidimeter® was used to monitor the turbidity. These field readings are presented in the field sampling logs, attached as **Appendix B**. As indicated on the logs, the monitoring wells were generally pumped until field screening parameters were stabilized prior to collecting the samples.

All recovered groundwater was collected and containerized in an appropriately labeled 55-gallon drums or other equivalent container for off-Site disposal. Copies of disposal documentation are provided in **Appendix C.**

Samples were placed in laboratory-provided, hydrochloric acid-preserved 40 mL glass vials with septa caps for VOC analysis via EPA Method 8260B. Samples were then packed in an ice chest and transported under chain-of-custody protocol to ESS Laboratory located in Cranston, Rhode Island.

The analytical results from these groundwater monitoring activities are provided in **Appendix D** (*Laboratory Reports)* and **Table 6 (***Summary of 2021 Groundwater VOC Analytical Results)*.

QA/QC samples were also collected and analyzed during these groundwater sampling activities. These QA/QC procedures and samples are summarized below in Section 2.6.

2.6 QUALITY ASSURANCE/QUALITY CONTROL SAMPLING AND ANALYSIS

During the November 2021 sampling round, all groundwater samples were submitted to ESS Laboratory in Cranston, Rhode Island for analysis. The samples were transported to the laboratory under chain of custody protocol.

Field duplicate samples were collected and analyzed to evaluate the reproducibility of the sampling methods. Duplicate groundwater samples were collected sequentially after achieving stabilization of the geochemical parameters. Duplicate samples were collected at a frequency of 1 duplicate sample per 20 samples collected on average. Duplicate groundwater sampling results are included in the applicable summary table, with a reference to the applicable sample location in the notes section. A VOC trip blank accompanied each cooler of groundwater samples on November 17 and 18, 2021 to the laboratory and was analyzed for the presence of VOCs to evaluate potential cross contamination during sample transport. In error, a trip blank was not submitted with groundwater samples submitted to the lab with the samples collected on November 16, 2021.

The analytical results and chain-of-custody forms are presented in **Appendix D** and **Table 7** (*Summary of Groundwater QA/QC VOC Analytical Results)*.

The following summarizes the groundwater QA/QC samples for the 2021 sampling event:

QA/QC Sample Type	Matrix	Number of Samples	Analysis / Comment
Samples	Groundwater	17	VOCs
Field Duplicates	Groundwater	1	VOCs
Trip Blanks	Groundwater	2	VOCs

Upon receipt, GZA audited the analytical data to assess whether the analytical data met the data quality objectives of the project. This audit included evaluation of QA/QC samples (*e.g.*, Lab Control Samples/Lab Control Sample Duplicates, Method Blanks, Field Blanks, and Field Duplicates) to evaluate the representativeness, comparability, completeness, precision, accuracy, and sensitivity of the analytical data.

The groundwater analytical results were generally useable to meet the project data quality objectives with no unusual observations noted.

2.7 GROUNDWATER ANALYTICAL RESULTS

Analytical data from the sampling event is summarized in **Table 6** and **Figure 7**. The table includes comparisons to Method 1 (or Method 2 as appropriate) GB Groundwater Objectives and Upper Concentration Limits (UCL). In general, the analytical results reported during the 2021 round was consistent with levels detected previously.

Historical groundwater quality at the Site has generally characterized by a few isolated exceedances of the GB Groundwater Objectives for benzene, ethylbenzene and naphthalene[1], primarily in areas of the Site where former MGP features were located. During the 2021 sampling round, all the detected compounds were below the GB Groundwater Objectives except for RCA-22,

[1] As noted in previous reports, vinyl chloride was also detected in a few Site wells in excess of the GB Groundwater Objective. Vinyl chloride is not a Site compound of concern and is likely originating upgradient of the Site.

in the LNG facility which had a measurable level of benzene (0.821 mg/L), above the criteria of 0.14 mg/L. No groundwater samples were collected from the Holcim Cement Facility portion of the Site[2]. In addition, no GB UCL exceedances were detected.

The following sections discuss the dissolved-phased VOC analytical results for this sampling event as compared to the Method 1 (or Method 2 as appropriate) objectives by Site area.

2.7.1 Former CNG Fueling Station

The Former CNG Fueling Station area is primarily grassed with a smaller portion of paved area. The Former CNG fueling station and Former CNG buildings previously located in this area were removed in 2020 as part of the Former CNG Dispensing Station Demolition Project. Four (4) wells are located in this area (RCA-12R, GZ-301D, GZ-302S and GZ-302D). Two (2) monitoring wells (RCA-12R and GZ-301D) were sampled from this area during the 2021 monitoring event, as shown on **Figure 7,** with results presented in **Table 6.**

The following VOCs were detected in the sample collected from RCA-12R in the Former CNG Fueling Station area during the 2021 sampling round: cis-,1,2-dichloroethene (0.0074 mg/L), tetrachloroethene (0.0018 mg/L), and trichloroethene (0.0078 mg/L). All of the VOC results in the sample collected from GZ-301D were below the method detection limit. No VOCs were detected above the GB Groundwater Objectives.

Historically, exceedances of the Method 1/2 GB Groundwater Objectives in this area have been limited to vinyl chloride in samples collected from RCA-12R and GZ-301D. These monitoring wells are located proximate to Allens Avenue and the property line and groundwater contours (**Figure 5***)* indicate that groundwater flow originates upgradient. Additionally, the above detection of cis-1,2-dichloroethene, tetrachloroethene and trichloroethene are not compounds typically associated with former MGP operations. Therefore, these chlorinated VOC detections are likely due to upgradient sources.

2.7.2 Natural Gas Regulation Area

The Natural Gas Regulation Area is covered primarily by grasses or crushed stone, with some paved areas such as the parking lot and roadways. The gas operations building, Compressor Building No.2 and active natural gas regulator buildings are located in this area. Eighteen (18) wells are located in this area (RCA-1, RCA-15, RCA-17, VHB-1, GZ-303S, GZ-303D, GZ-304D, GZ-305S, GZ-306S, GZ-307S, GZ-308S, GZ-309D, Unknown-2, GZ-500S, GZ-500D, GZ-501S, GZ-502S, and GZ-503S). Nine (9) monitoring wells (RCA-1, RCA-15, VHB-1, GZ-304D, GZ-309D, GZ-500S, GZ-500D, GZ-501S, and GZ-502S) were sampled from this area during the November 2021 monitoring event (refer to **Table 6** and **Figure 7**).

VOCs were detected in seven (7/9) samples collected in the Natural Gas Regulation Area during the 2021 sampling round (RCA-1, VHB-1, GZ-304D, GZ-500D, GZ-500D, GZ-501S, and GZ-502S). The following VOCs were detected: benzene, cis-1,2-dichloroethene, sec-butylbenzene, 1,3,5-trimethylbenzene, 1,2,4-Trimethylbenzene, 4-isopropyltoluene, carbon disulfide, ethylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, isopropylbenzene, styrene, toluene, trichloroethene and xylenes. None of the VOCs detected were above the applicable GB Groundwater Objectives.

Historically, few isolated exceedances of the Method 1/2 GB Groundwater Objectives for benzene and naphthalene have been detected in the Natural Gas Regulation Area in areas where former MGP features were located: downgradient of former tar/ammonia pits (VHB-7), proximate to the former gasholder No. 18 (VHB-10) and downgradient of the former ammonia works buildings (VHB-21/GZ-318D). The presence of these compounds in groundwater samples is typical for former MGP sites.

Also, compounds such as 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 4-isopropyltoluene, carbon disulfide, ethylbenzene, n-butylbenzene, n-propylbenzene, styrene, toluene, trichloroethene and xylenes were mostly detected in the newly installed wells during the 2021 sampling event at very low concentrations (slightly above the method detection limits). The presence of

[2] Note that there are no active monitoring wells located within the Holcim Cement Facility.

these compounds in groundwater samples is not typical of former MGP sites; GZA will continue to monitor these concentrations in the future.

2.7.3 LNG Facility

The LNG Facility area is covered with concrete, crushed stone or asphalt areas. The LNG tank, LNG fueling station and LNG facility control buildings are located in this area. Fourteen (14) wells are located in this area (RCA-6, RCA-22, RCA-28, RCA-31, RCA-34, RCA-36, VHB-20, GZ-101, GZ-201, GZ-319D, ESS RW-3, ESS RW-4, ESS RW-5 and ESS RW-6). Six (6) monitoring wells (RCA-22, RCA-31, RCA-36, VHB-20, GZ-201 and GZ-319D) were sampled from this area during the November 2021 monitoring event, as summarized in **Table 6** and presented on **Figure 7**.

VOCs were detected in five (5/6) samples collected in the Natural Gas Regulation Area during the 2021 sampling round (RCA-22, VHB-20, RCA-36, GZ-201 and GZ-319D). The following VOCs were detected: 1,2,4-trimethylbenzene, benzene, ethylbenzene, isopropylbenzene, naphthalene, n-butylbenzene, n-propylbenzene, sec-butylbenzene, styrene, toluene and xylenes. RCA-22 was the only well with VOCs detected at concentrations that exceed the applicable Method 1/2 GB Groundwater Objectives. At this location, benzene was detected at a concentration of 0.821 mg/L, above the GB Groundwater Objective of 0.14 mg/L.

Historically, few isolated exceedances of the GB Groundwater Objectives for benzene, ethylbenzene and naphthalene have been detected in the LNG Facility in areas of the Site where former MGP features were located: proximate to the former purifier building (RCA-28) and proximate to former MGP features (RCA-22, RCA-36, GZ-314S/D and GZ-315D). The presence of these compounds in groundwater samples is typical for former MGP sites.

2.8 INVESTIGATION DERIVED WASTE MANAGEMENT

All groundwater generated during monitoring activities performed in 2021 were placed into 55-gallon drums for subsequent off-Site disposal. The resulting drums were labeled and temporarily stored on-Site. All IDWs removed from Site up to this point in time (August 2022) were transported off-Site by CHES to their facility in Bristol, CT and El Dorado, AR. Copies of shipping records for the IDWs are included in **Appendix C**.

3.0 SUMMARY AND CONCLUSIONS

As part of the annual Site monitoring events in 2021, seventeen (17) monitoring wells were sampled in November 2021 for VOCs; all accessible wells were gauged to determine the groundwater elevation and presence of NAPL on an approximate semi-annual basis; and shoreline observations were made on an approximately monthly basis throughout the year. In general, observations made, and the results of analytical testing were consistent with historical results, as summarized below:

- Sheen observations were consistent with historical observations and were limited to the cove in the northwestern portion of the Site. Sheen observations were limited to several localized and immediate areas of the shoreline and were observed at various tidal stages, with most observations at mid-tide.

- NAPL Observations:

    - Trace amounts to up to 0.03 feet of LNAPL was detected in GZ-307S during 2021, with the exception of the November monthly gauging when no LNAPL was detected within the well. NAPL recovery was not attempted at monitoring well GZ-307S during 2021 because of the limited thickness of NAPL detected.

    - Observations of both LNAPL continue to be very localized and do not indicate the presence of significant contiguous source layers in the subsurface.

- Groundwater Quality:

    - Historical groundwater quality at the Site is generally characterized by a few isolated exceedances of the GB Groundwater Objectives for benzene, ethylbenzene and naphthalene, primarily in areas of the Site where former MGP features were located. The presence of naphthalene, benzene and ethylbenzene in groundwater samples is typical for former MGP sites.

    - Only one well (RCA-22 in the LNG facility) had an exceedance of the GB Groundwater Objective during the 2021 monitoring period. At this well, benzene was detected at a concentration of 0.821 mg/L, above the criteria of 0.14 mg/L.

    - Several VOCs were detected at low concentrations during the 2021 sampling event, primarily in the newly installed wells. The detected VOCs included the presence of 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 4-isopropyltoluene, carbon isulfide, ethylbenzene, n-butylbenzene, n-propylbenzene, styrene, toluene, trichloroethene, and xylenes. While detected at low concentrations (generally slightly above the detection limits and well below the applicable criteria), many of these compounds are not typical chemical of concerns at former MGP sites. GZA will continue to monitor the presence of these compounds during future sampling events.

TABLES

TABLE 1
SUMMARY OF SHEEN OBSERVATIONS
642 Allens Avenue
Providence, Rhode Island

File No. 03.00033554.01
9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
9/22/2011	8:40	Low	Along shoreline stretching from RCA-40 to RCA-3.	Small dull spots.
9/22/2011	9:00	Low	Outfall proximate to Motiva property.	Moderate dull bands.
9/22/2011	9:15	Low	Along shoreline stretching from RCA-40 to RCA-3.	Large dull bands and moderate dull spots.
10/28/2011	9:00	High	No sheens observed. Boom was repaired	
	14:30	Mid-Low	No sheens observed.	
12/22/2011	10:40	Low	Outside of Boom, along shoreline stretching from RCA-5 to RCA-20.	Moderate dull bands and small dull spots.
12/22/2011	10:40	Low	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Large dull bands and moderate dull spots.
12/22/2011	11:00	Low	Outfall proximate to Motiva property.	Very small dull spots
2/3/2012	12:00	Low-Mid	Outside of Boom, north of the RIPDES outfall (within cove)	Moderate dull spots
2/8/2012	15:10	Mid	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Small dull spots.
2/15/2012	11:55	Mid	Outside of Boom, along shoreline stretching from RCA-5 to RCA-20.	Small dull spots.
2/15/2012	11:55	Mid	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Large bright bands.
2/23/2012	15:00	Low	No sheens observed.	
3/2/2012	14:20	High	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Minor to moderate dull spots and bands of sheen
3/2/2012	14:30	High	Outfall proximate to Motiva property.	Large bright bands.
3/9/2012	13:10	Low	Outside of boom, along shoreline stretching from CHES RW-5 to RW-3.	Moderate to minor dull spots of sheen
3/9/2012	13:05	Low	Outfall proximate to Motiva property.	Slight bright bands of sheen
4/13/2012	10:53	Mid	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Moderate to minor dull spots of sheen
4/13/2012	10:58	Mid	Outfall proximate to Motiva property.	Slight bright bands of sheen
5/16/2012	13:45	Mid-High	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Minor to moderate dull bands of sheen
5/16/2012	13:45	Mid-High	Outfall proximate to Motiva property.	Moderate bright bands of sheen
6/29/2012	9:35	Low	Outside of boom, near LNG tank	Bright large sheen spot

TABLE 1
SUMMARY OF SHEEN OBSERVATIONS
642 Allens Avenue
Providence, Rhode Island

File No. 03.00033554.01
9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
6/29/2012	9:35	Low	Within the boom, along shoreline stretching from CHES RW-5 to RW-3.	Bright to dull bands of sheen
6/29/2012	9:45	Low	Outfall proximate to Motiva property.	Slight dull spots
7/19/2012	9:50	Low	Outside of Boom, north of the RIPDES outfall (within cove) to Propane House	Bright moderate sheen spots
7/19/2012	9:50	Low	Outfall proximate to Motiva property.	Bright moderate sheen spots
8/2/2012	8:45	High	Within the boom, along shoreline at CHES RW-4. Boom was repaired.	Bright moderate sheen bands
8/24/2012	10:10	Mid	Outside of boom, near CHES RW-4	Bright moderate sheen spot
8/24/2012	10:10	Mid	Within the boom, from CHES RW-4 to Propane House	Bright moderate sheen spots and bands
8/24/2012	10:10	Mid	Outside of boom, from Propane House to RCA-3	Bright slight sheen spots and bands
8/24/2012	10:10	Mid	Outfall proximate to Motiva property.	Bright slight sheen spots and bands
9/6/2012	No sheens observed at high tide.			
9/13/2012	11:20	Low	Within the boom, near CHES RW-4	Bright slight sheen bands
9/13/2012	11:45	Low	Outside of boom, near CHES RW-4	Bright slight sheen spot
9/13/2012	11:45	Low	Within the boom, between CHES RW-3 and CHES RW-4	Bright moderate bands and spots of
9/25/2012	14:00	Mid	Outfall proximate to Motiva property.	Slight bright bands of sheen
10/31/2012	10:15	High	Within the boom, near CHES RW-4	Slight bright spots of sheen
11/19/2012	No sheens observed at high tide.			
11/20/2012	16:20	Mid-High	Within the boom, between CHES RW-3 and CHES RW-4. Boom was repaired.	Moderate long bright bands of sheen
12/20/2012	12:00	Mid-High	No sheens observed.	
1/4/2013	No sheen observed at high tide.			
2/1/2013	No sheens observed at high tide. High wind was also noted.			
2/12/2013	Boom was repaired.			
2/26/2013	12:48	Low	Within the boom, near CHES RW-4	Slight bright spots of sheen
2/26/2013	12:52	Low	Within the boom, between CHES RW-3 and CHES RW-4	Slight bright spots of sheen
2/26/2013	12:56	Low	Outfall proximate to Motiva property.	Moderate long bright bands of sheen
3/22/2013	11:22	Low	Within the boom, between CHES RW-3 and CHES RW-4	Moderate bright bands of sheen
3/25/2013	11:00	Low	Within the boom, within sediments exposed at low tide between CHES RW-3 and CHES RW-4	Slight sheen spots
4/2/2013	11:00	Mid	Within the boom, near CHES RW-4	Bright bands of sheen

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SUMMARY OF SHEEN OBSERVATIONS
642 Allens Avenue
Providence, Rhode Island

File No. 03.00033554.01
9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
4/24/2013	No sheens observed at high tide.			
4/30/2013	No sheens observed at high tide.			
5/6/2013	No sheens observed at high tide.			
5/14/2013	8:15	Mid-High	Within the boom, between CHES RW-3 and CHES RW-4	Bands of dull sheen
5/24/2013	No sheens observed at mid-high tide.			
5/31/2013	8:00	Low	Within the boom, between CHES RW-3 and CHES RW-5	Slight dull bands and spots
5/31/2013	9:45	Mid	Within the boom, between CHES RW-3 and CHES RW-5	Slight to moderate dull bands and spots
5/31/2013	9:50	Mid	Within the boom, within sediments exposed at mid tide between CHES RW-3 and CHES RW-4	Bright spots of sheen
6/2/2013	No sheens observed at mid tide. High wind was also noted.			
6/3/2013	9:10	Low	Outside the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Bright to dull spots and blebs of sheen
6/3/2013	9:10	Low	Within the boom, between CHES RW-3 and CHES RW-5	Moderate dull bands of sheen
6/3/2013	12:30	Mid	Within the boom, between CHES RW-3 and CHES RW-5	Slight dull bands of sheen
6/3/2013	13:15	Mid	Outside the boom, along the edge of the LNG portion of the property, directly adjacent to the pathway. The sheen was noted as originating from the western part of the	Slight dull bands of sheen
6/10/2013	No sheens observed at high tide.			
6/11/2013	12:30	Mid-High	Within the boom, between CHES RW-3 and CHES RW-5	Moderate bright bands of sheen
6/13/2013	14:25	Mid	Within the boom, proximate to CHES RW-5	Moderate dull to bright bands and spots
6/19/2013	No sheens observed at high tide.			
6/20/2013	8:30	Mid	Within the boom, between CHES RW-3 and CHES RW-5	Moderate bright bands of sheen
6/25/2013	11:00	High	Within the boom, near CHES RW-4	Slight bright spots of sheen
7/31/2013	No sheens observed at high tide.			
8/28/2013	12:30	Mid-High	Within the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Very slight bright spots
9/5/2013	15:06	Low	Within the boom, near CHES RW-4	Bright to dull spots and blebs of sheen
9/27/2013	No sheens observed at high tide. High wind was also noted.			
10/30/2013	8:30	Mid	Within the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Very slight bright spots
11/19/2013	No sheens observed at high tide. High wind was also noted.			

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Providence, Rhode Island

File No. 03.00033554.01
9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
12/20/2013	10:15	Mid - Low	Within the boom, directly near the repair area (proximate to the gate area) in the LNG portion of the property	Very slight bright spots
1/27/2014	9:53	Low	Outfall proximate to Motiva property.	Slight bright bands of sheen
2/25/2014	14:00	Mid - High	Within the boom, between CHES RW-3 and CHES RW-4	Slight dull bands of sheen
3/20/2014	9:15	Mid - High	Within the boom, between CHES RW-3 and CHES RW-5. Boom was repaired.	Moderate long dull bands of sheen
4/29/2014	12:30	Mid-Low	Within the boom, between CHES RW-4 and CHES RW-5	Slight dull bands of sheen
	12:40		Outfall proximate to Motiva property.	Slight bright spots of sheen
5/22/2014	No sheens observed at high tide. High wind and rain were also noted.			
6/3/2014	No sheens observed at high tide.			
7/24/2014	No sheens observed at high tide.			
8/24/2014	No sheens observed at high tide. High wind was also noted.			
9/24/2014	10:25	High-Mid	Within the boom, near CHES RW-3	Slight dull sheen spots and bands
	10:30		Within the boom, near Propane House	Moderate dull to bright bands and spots
10/4/2013	Boom was repaired.			
10/30/2014	7:30	Low	Inside and outside boom, between CHES RW-3 and CHES RW-5	Slight bands of dull sheen
			Within the boom, near CHES RW-3	Strong bright bands of sheen
11/13/2014	No sheens observed at high tide. Boom was repaired.			
12/12/2014	14:00	Mid	Within the boom, near CHES RW-3	Slight dull bands of sheen
1/29/2015	No sheens observed at mid tide.			
2/25/2015	No sheens observed. Cove completely frozen over.			
3/23/2015	No sheens observed at high tide. High wind was also noted.			
4/9/2015	No sheens observed at high tide. High wind was also noted. Hard boom and absorbent boom were replaced.			
5/22/2015	7:43	Low	Within the boom, near CHES RW-3	Very slight bright spots
6/17/2015	No sheens observed at mid tide. High wind was also noted.			
7/17/2015	11:29	Mid	Within the boom, between CHES RW-3 and RCA-5	Moderate to bright spots of sheen
8/28/2015	12:20	Low	Inside and outside boom, between CHES RW-3 and CHES RW-5	Moderate dull spots of sheen
9/16/2015	9:40	Mid-High	Within the boom, near CHES RW-3	Slight dull bands of sheen
10/14/2015	No sheens observed at high tide.			
11/17/2015	No sheens observed at high tide. Boom was repaired.			

TABLE 1

SUMMARY OF SHEEN OBSERVATIONS

642 Allens Avenue

Providence, Rhode Island

File No. 03.00033554.01

9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
12/30/2015	No sheens observed at high tide.			
1/29/2016	No sheens observed at mid tide.			
2/22/2016	12:00	Mid-High	Within Boom near CHES RW-3	Slight sheen spots
3/3/2016	Boom was repaired.			
3/16/2016	8:30	Mid-High	Within Boom between CHES RW-3 and CHES RW-5	Minor sheening. Dull to bright streaks of
4/28/2016	3:30	Mid-High	Within Boom near CHES RW-3	Bright Plates/Streaks of Sheen
5/19/2016	11:00	Mid-Low	Within Boom near CHES RW-3	Dull plates of sheen
6/10/2016	No sheens observed at mid-high tide.			
7/13/2016	Boom was repaired.			
7/26/2016	10:00	Low	Within Boom near CHES RW-3	Slight sheen
8/30/2016	13:00	Low	Inside and outside boom, between CHES RW-3 and CHES RW-5	Plates of sheen
9/16/2016	9:00	High	Within Boom	Slight Sheen (Streaks)
10/30/2016	No sheens observed			
11/30/2016	11:00	Mid	Within Boom near CHES RW-3	Platlets of sheen
12/13/2016	11:45	No sheen observed at low tide		
1/31/2017	No sheens observed at mid tide			
2/23/2017	Boom was repaired.			
2/27/2017	9:00	Mid-Low	Within Boom near CHES RW-3	Streaks of sheen
3/24/2017	No sheens observed at high tide			
4/28/2017	No sheens observed at high tide			
5/5/2017	No sheens observed at high tide			
6/7/2017	Boom was repaired.			
6/30/2017	No sheens observed at high tide			
7/27/2017	No sheens observed at high tide			
8/1/2017	16:00	High	Within Boom near CHES RW-3	Some plates of sheen
9/1/2017	12:50	Mid	Within Boom near CHES RW-3	Dull streaks of sheen
9/29/2017	11:00	Mid-High	Within Boom near CHES RW-3	Some streaks of sheen
10/6/2017	Boom was repaired.			
10/24/2017	No sheens observed at high tide			
11/21/2017	No sheens observed at high tide			

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642 Allens Avenue
Providence, Rhode Island

File No. 03.00033554.01
9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
12/21/2017	No sheens observed at low tide			
1/24/2018	13:00	No sheens observed at high tide		
2/21/2018	12:00	No sheens observed at high tide		
3/20/2018	11:00	No sheens observed at high tide		
4/12/2018	Boom was repaired in response to storm damage.			
4/26/2018	7:00	No sheens observed at high tide		
5/15/2018	14:00	No sheens observed at low tide		
6/28/2018	14:00	No sheens observed at low tide		
7/30/2018	13:00	Mid	Along shoreline.	Some streaks of sheen, dull to bright
8/30/2018	9:30	Mid-high	Between hard boom and shore	Dull streaks of sheen
10/1/2018	7:00	Low	Between hard boom and shore	Bright streaks of sheen
10/25/2018	Boom was repaired.			
10/30/2018	10:30	No sheens observed at mid tide		
11/14/2018	7:00	No sheens observed at high tide		
12/19/2018	11:15	Low tide	No sheens observed	
1/30/2019	11:00	Low tide	Between hard boom and shore proximate to former well RW-3	Dull streaks of sheen
2/27/2019	13:00	Mid-high tide	Between hard boom and shore proximate to former well RW-3	Dull plates and streaks of sheen
3/20/2019	13:00	Low	Between hard boom and shore proximate to former well RW-3	Dull plates and bright streaks of sheen
4/22/2019	11:00	No sheens observed at high tide		
5/10/2019	Boom was repaired.			
5/31/2019	7:00	No sheens observed at high tide		
6/26/2019	15:00	High	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
7/25/2019	14:30	High	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
8/22/2019	13:00	High	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
9/27/2019	7:00	No sheens observed at high tide		

TABLE 1

SUMMARY OF SHEEN OBSERVATIONS

642 Allens Avenue

Providence, Rhode Island

File No. 03.00033554.01

9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
10/1/2019	Boom was repaired.			
10/21/2019	14:30	No sheens observed at high tide		
11/21/2019	10:00	Mid Tide	Between hard boom and shore proximate to former well RW-3	Dull plates of sheen
12/18/2019	9:00	No sheens observed at mid tide		
1/24/2020	8:30	Mid Tide	Along shoreline proximate to former well RW-3.	Dull to bright plates of sheen
2/24/2020	12:00	No sheens observed at low tide		
3/26/2020	12:45	No sheens observed at mid to high tide		
4/23/2020	8:00	No sheens observed at high tide		
5/21/2020	Boom was repaired.			
5/22/2020	8:45	No sheens observed at high tide		
6/9/2020	15:00	No sheens observed at mid to low tide		
7/17/2020	12:30	Mid-low Tide	Along shoreline proximate to former well RW-3.	Slight dull to bright plates of sheen
8/11/2020	7:15	Mid Tide	Between hard boom and shore proximate to former well RW-3	Large dull to bright plates of sheen
8/20/2020	12:15	No sheens observed at mid to low tide		
9/22/2020	9:00	No sheens observed at mid to high tide		
10/26/2020	12:00	No sheens observed at low tide		
11/6/2020	Boom was repaired.			
11/24/2020	7:00	No sheens observed at mid to high tide		
12/11/2020	10:37	Low Tide	Between hard boom and shore proximate to former well RW-3	Minor dull to bright plates of sheen
12/21/2020	Boom was repaired.			
1/22/2021	13:37	No sheens observed at mid tide		
2/9/2021	7:07	High-tide	Between hard boom and shore proximate to former well RW-3	Minor dull plates of sheen
2/24/2021	Boom was repaired.			
3/15/2021	8:54	No sheens observed at mid tide		
4/20/2021	11:50	No sheens observed at mid tide		
5/14/2021	Boom was repaired.			

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SUMMARY OF SHEEN OBSERVATIONS
642 Allens Avenue
Providence, Rhode Island

File No. 03.00033554.01
9/9/2022

Date of Observation	Time of Observation	Approximate Tidal Stage	Approximate Location of Sheen Observed	Description of Sheen Observed
5/21/2021	13:14	Mid Tide	Between hard boom and shore proximate to former well RW-3	Minor dull plates of sheen
6/23/2021	10:00	Low-tide	Between hard boom and shore proximate to former well RW-3	Minor dull plates of sheen
7/26/2021	7:29	Mid Tide	Between hard boom and shore proximate to former well RW-3	Large bright plates of sheen
8/13/2021	10:39	High-tide	Between hard boom and shore proximate to former well RW-3	Minor dull plates of sheen
9/27/2021	10:11	Mid Tide	Between hard boom and shore proximate to former well RW-3	Minor dull plates of sheen
10/18/2021	10:10	No sheens observed at mid to low tide		
11/1/2021	Boom was repaired.			
11/18/2021	12:10	No sheens observed at low tide		
12/20/2021	10:23	No sheens observed at high tide		

1. This table shows observations that were made along the Site shoreline. Observations were made at least monthly.
2. A water line directly proximate to the Providence River at the LNG facility unexpectedly failed on May 31, 2013. This water line provided fire protection for the LNG facility. Immediate response actions included deploying additional absorbent booms, repairing a rip-rap slope and temporarily repairing the line for fire protection. The water line was replaced in the fall of 2013. Additional boom was deployed on May 31, 2013 and June 3, 2013

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	December 2009								June 2010								January 2011								July 2011							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP																																	
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP																																	
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP																																	
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP																																	
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	5.72	-	14.73	6.10	NP	NP	6.10	-	6.67	-	15.39	5.15	NP	NP	5.15									-	6.45	-	15.4	5.37	NP	NP	5.37
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	8.01	-	17.5	3.43	NP	NP	3.43	-	9.45	-	17.41	1.99	NP	NP	1.99	-	9.95	trace	17.65	1.49	NP	trace	1.49	-	8.51	trace	17.75	2.93	NP	trace	2.93
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP																									-	6.72	-	14.95	6.32	NP	NP	6.32
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	-	4.63	-	14.50	6.98	NP	NP	6.98	-	6.51	-	14.52	5.10	NP	NP	5.10	-	6.84	-	15.00	4.77	NP	NP	4.77	-	6.27	-	14.95	5.34	NP	NP	5.34
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP																									-	8.4	-	15.28	4.35	NP	NP	4.35
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP																									-	8.11	-	17.95	5.95	NP	NP	5.95
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP																									-	7.33	-	14.75	6.11	NP	NP	6.11
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP																									-	4.54	-	10.9	5.79	NP	NP	5.79
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP																									-	5.42	-	9.15	6.54	NP	NP	6.54
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	6.03	-	11.6	6.90	NP	NP	6.90									-	8.18	-	14	4.75	NP	NP	4.75	-	7.74	-	13.95	5.19	NP	NP	5.19
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	8.02	-	14.78	5.71	NP	NP	5.71	-	9.06	-	14.85	4.67	NP	NP	4.67	-	9.75	-	14.9	3.98	NP	NP	3.98	-	8.89	-	14.85	4.84	NP	NP	4.84
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP									-	11.62	-	17.04	7.48	NP	NP	7.48	trace	12.35	-	17.04	6.75	trace	NP	6.75	trace	11.7	-	17.04	7.40	trace	NP	7.40
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	6.13	-	14.7	9.22	NP	NP	9.22	-	6.37	-	15.0	8.98	NP	NP	8.98									-	8.93	-	16.92	6.42	NP	NP	6.42
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	trace	7.18	-	16.51	6.47	trace	NP	6.47	-	8.61	-	16.53	5.04	NP	NP	5.04	-	9.05	-	16.55	4.60	NP	NP	4.60	-	8.51	-	16.55	5.14	NP	NP	5.14
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP																									8.54	8.55	-	17.67	4.47	0.01	NP	4.48
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP																									7.88	7.89	-	17.25	4.91	0.01	NP	4.91
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP																									-	6.57	-	10.42	6.37	NP	NP	6.37
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP																									-	9.85	-	16.24	4.42	NP	NP	4.42
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP																																
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP																									-	4.68	-	9.52	4.99	NP	NP	4.99
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP									-	4.52	-	11.19	9.54	NP	NP	9.54									-	5.21	-	11.5	8.85	NP	NP	8.85
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP																																
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP																																
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP																																
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP																																
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP																																
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP																																
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP																																
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP																																
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP																																
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP																																
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP																																
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP																																
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP																																
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP																																
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																																
NG	GZ-503S	19.71	19.61	16.77	Standpipe	Shallow	9/15/2021	14.84	2 - 12	NP	NP																																
NG	GZ-502S	13.93	13.74	11.05	Standpipe	Shallow	9/14/2021	15.68	5 - 15	NP	NP																																
NG	GZ-501S	15.11	14.92	12.22	Standpipe	Shallow	9/14/2021	16.12	3 - 13	NP	NP																																
NG	GZ-500S	19.95	19.75	16.80	Standpipe	Shallow	9/14/2021	16.83	5 - 15	NP	NP																																
NG	GZ-500D	19.64	19.49	16.80	Standpipe	Deep	9/15/2021	33.06	20- 30	NP	NP																																
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP																									-	10.04	-	13.33	2.23	NP	NP	2.23
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP																									-	10.22	-	17.2	0.44	NP	NP	0.44
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP																									-	8.16	-	10.95	4.79	NP	NP	4.79
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP																									10.07	13.65	-	13.75	0.07	3.58	NP	3.11
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP																	-	9.92	-	13.05	3.00	NP	NP	3.00	-	9.08	-	13	3.84	NP	NP	3.84
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP																	-	12.45	-	17.65	2.93	NP	NP	2.93	-	11.65	-	17.65	3.73	NP	NP	3.73
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP																									10.87	10.95	-	14.79	2.50	0.08	NP	2.57
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP																																
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP																									-	8.69	-	15.98	3.47	NP	NP	3.47
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP																									-	7.44	-	13.12	2.23	NP	NP	2.23
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP																									-	9.29	-	13.55	5.80	NP	NP	5.80
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP																									-	10.49	-	14.05	0.02	NP	NP	0.02
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP																									-	7.86	-	16.8	1.50	NP	NP	1.50
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP																									-	8.81	-	14.6	5.05	NP	NP	5.05
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP																									-	10.01	-	16.75	2.23	NP	NP	2.23
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP																																
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP																									-	8.57	-	17	6.41	NP	NP	6.41
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP																									-	11.35	-	17.9	2.95	NP	NP	2.95
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP																									10.92	10.94	-	12.35	2.14	0.02	NP	2.16
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP																									-	11.6	-	13.8	2.72	NP	NP	2.72
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP																									-	5.11	-	8.46	NS	NP	NP	NS
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP																									-	7.62	-	11.07	NS	NP	NP	NS
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP																									-	12.76	-	16.8	3.27	NP	NP	3.27
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP																									-	12.53	-	14.95	3.25	NP	NP	3.25
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP																									-	12.82	-	17	3.32	NP	NP	3.32
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP																									-	14.27	-	17.09	3.25	NP	NP	3.25
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP																																
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP																																
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP																									-	8.75	-	17.3	4.08	NP	NP	4.08
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP																									-	6.61	-	17.75	5.00	NP	NP	5.00
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP																																
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP																																
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP																																
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP																																
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP																																

Notes

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the CNG Fueling Station portion of the Property

Elevations are relative to NAVD88

NP - Indicates No Product observed.

NS - Not Surveyed

Blanks indicate no measurement collected on that particular day.

Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.

Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	August 2011								February 2012								July 2012								February 2013							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP																																
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP																																
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP																																
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP																																
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	6.66	-	15.4	5.16	NP	NP	5.16	-	6.33	-	15.5	5.49	NP	NP	5.49	-	6.41	-	15.41	5.41	NP	NP	5.41	-	6.69	-	15.4	5.13	NP	NP	5.13
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	8.45	trace	17.75	2.99	NP	trace	2.99	-	9.4	trace	17.55	2.04	NP	trace	2.04	-	7.91	trace	17.55	3.53	NP	trace	3.53	-	9.25	trace	17.65	2.19	NP	trace	2.19
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	6.92	-	14.95	6.12	NP	NP	6.12	-	6.91	-	15.05	6.13	NP	NP	6.13	-	6.95	-	14.95	6.09	NP	NP	6.09	-	6.95	-	15	6.09	NP	NP	6.09
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	-	6.92	-	14.95	4.69	NP	NP	4.69	-	5.88	-	15.07	5.73	NP	NP	5.73	-	7.21	-	15.07	4.40	NP	NP	4.40	-	5.81	-	15.05	5.80	NP	NP	5.80
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	9.91	-	15.28	2.84	NP	NP	2.84	-	8.81	-	15.35	3.94	NP	NP	3.94	-	9.03	-	15.2	3.72	NP	NP	3.72	-	8.71	-	15.3	4.04	NP	NP	4.04
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.36	-	17.95	5.70	NP	NP	5.70	-	8.36	-	18.02	5.70	NP	NP	5.70	-	8.32	-	18.05	5.74	NP	NP	5.74	-	8.4	-	18	5.66	NP	NP	5.66
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.96	-	14.75	5.48	NP	NP	5.48	-	7.37	-	14.86	6.07	NP	NP	6.07	-	7.38	-	14.8	6.06	NP	NP	6.06	-	6.87	-	14.85	6.57	NP	NP	6.57
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	7.56	-	10.9	2.77	NP	NP	2.77	-	4.54	-	10.98	5.79	NP	NP	5.79	-	4.81	-	10.85	5.52	NP	NP	5.52	-	4.88	-	10.88	5.45	NP	NP	5.45
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	trace	6.41	-	9.15	5.55	trace	NP	5.55	-	5.36	-	9.38	6.60	NP	NP	6.60	-	6.49	-	9.11	5.47	NP	NP	5.47	-	4.97	-	9.4	6.99	NP	NP	6.99
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	8.26	-	13.95	4.67	NP	NP	4.67	-	7.38	-	13.75	5.55	NP	NP	5.55	-	8.61	-	12.7	4.32	NP	NP	4.32	-	7.38	-	12.25	5.55	NP	NP	5.55
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	9.3	-	14.85	4.43	NP	NP	4.43	-	9.29	-	14.98	4.44	NP	NP	4.44	-	9.46	-	14.91	4.27	NP	NP	4.27	-	9.38	-	14.9	4.35	NP	NP	4.35
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	12.22	12.23	-	17.04	6.87	0.01	NP	6.88	trace	11.83	-	17.16	7.27	trace	NP	7.27	12.45	12.47	-	17.16	6.63	0.02	NP	6.65	-	12.81	-	17.15	6.29	NP	NP	6.29
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.16	-	16.92	6.19	NP	NP	6.19	-	9.15	-	17.03	6.20	NP	NP	6.20	-	9.21	-	17	6.14	NP	NP	6.14	-	9.23	-	17	6.12	NP	NP	6.12
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	-	8.99	-	16.55	4.66	NP	NP	4.66	-	8.4	-	16.63	5.25	NP	NP	5.25	9.31	9.32	-	16.63	4.33	0.01	NP	4.33	8.56	8.57	-	17.3	5.08	0.01	NP	5.08
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	-	9.06	-	17.67	3.96	NP	NP	3.96	trace	7.94	-	17.31	5.08	trace	NP	5.08	8.82	8.86	-	17.31	4.16	0.04	NP	4.19	-	8.88	-	17.8	4.14	NP	NP	4.14
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	8.50	8.55	-	17.25	4.25	0.05	NP	4.29	trace	8.8	-	17.85	4.00	trace	NP	4.00	-	9.44	-	17.85	3.36	NP	NP	3.36	8.21	8.22	-	17.8	4.58	0.01	NP	4.58
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	7.22	-	10.42	5.72	NP	NP	5.72	-	6.3	-	10.55	6.64	NP	NP	6.64	-	7.89	-	10.5	5.05	NP	NP	5.05	-	6.86	-	10.3	6.08	NP	NP	6.08
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	10.41	-	10.24	3.86	NP	NP	3.86	trace	10.24	-	10.35	4.03	trace	NP	4.03	-	10.57	-	10.61	3.70	NP	NP	3.70	trace	10.42	-	16.3	3.85	trace	NP	3.85
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP																																
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	7.68	-	9.52	1.99	NP	NP	1.99	-	4.6	-	9.55	5.07	NP	NP	5.07	-	5.75	-	9.14	3.92	NP	NP	3.92	-	4.15	-	9.35	5.52	NP	NP	5.52
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	-	5.74	-	11.5	8.32	NP	NP	8.32	-	5.4	-	11.6	8.66	NP	NP	8.66	-	5.9	-	11.6	8.16	NP	NP	8.16	-	5.25	-	10	8.81	NP	NP	8.81
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP																																
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP																																
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP																																
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP																																
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP																																
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP																																
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP																																
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP																																
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP																																
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP																																
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP																																
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP																																
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP																																
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP																																
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																																
NG	GZ-503S	19.71	19.61	16.77	Standpipe	Shallow	9/15/2021	14.84	2 - 12	NP	NP																																
NG	GZ-502S	13.93	13.74	11.05	Standpipe	Shallow	9/14/2021	15.68	5 - 15	NP	NP																																
NG	GZ-501S	15.11	14.92	12.22	Standpipe	Shallow	9/14/2021	16.12	3 - 13	NP	NP																																
NG	GZ-500S	19.95	19.75	16.80	Standpipe	Shallow	9/14/2021	16.83	5 - 15	NP	NP																																
NG	GZ-500D	19.64	19.49	16.80	Standpipe	Deep	9/15/2021	33.06	20- 30	NP	NP																																
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.33	-	13.33	1.94	NP	NP	1.94	-	10.75	-	13.45	1.52	NP	NP	1.52	-	10.44	-	13.45	1.83	NP	NP	1.83	-	10.59	-	13.55	1.68	NP	NP	1.68
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.55	-	17.2	0.11	NP	NP	0.11	-	11.2	-	17.27	-0.54	NP	NP	-0.54	-	10.65	-	17.2	0.01	NP	NP	0.01	-	11.21	-	17.26	-0.55	NP	NP	-0.55
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	9.09	-	10.95	3.86	NP	NP	3.86	-	8.85	-	11.07	4.10	NP	NP	4.10	-	9.1	-	11.07	3.85	NP	NP	3.85	-	8.83	-	14.35	4.12	NP	NP	4.12
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	10.72	13.66	-	13.75	0.06	2.94	NP	2.56	10.95	13.74	-	13.94	-0.02	2.79	NP	2.35	11.17	12.82	-	14.35	0.90	1.65	NP	2.30	11.41	12.85	-	14.35	0.87	1.44	NP	2.10
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.52	-	13	3.40	NP	NP	3.40	-	9.48	-	13.05	3.44	NP	NP	3.44	-	9.69	-	13.05	3.23	NP	NP	3.23	-	9.77	-	13.2	3.15	NP	NP	3.15
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12	-	17.65	3.38	NP	NP	3.38	-	12.02	-	17.7	3.36	NP	NP	3.36	-	12.08	-	17.7	3.30	NP	NP	3.30	-	12.28	-	17.75	3.10	NP	NP	3.10
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	trace	11.31	-	14.79	2.14	trace	NP	2.14	trace	11.73	-	14.79	1.72	trace	NP	1.72	11.50	11.61	-	14.45	1.84	0.11	NP	1.84	trace	11.98	-	14.45	1.47	trace	NP	1.47
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP																																
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	9.64	-	15.98	2.52	NP	NP	2.52	-	9.75	-	16.05	2.41	NP	NP	2.41	-	10.75	-	16.01	1.41	NP	NP	1.41	-	9.98	-	12.9	2.18	NP	NP	2.18
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	7.74	-	13.12	1.93	NP	NP	1.93	-	8.37	-	13.26	1.30	NP	NP	1.30	-	8.08	-	13.2	1.59	NP	NP	1.59	-	8.51	-	13.3	1.16	NP	NP	1.16
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	11.59	-	13.55	3.50	NP	NP	3.50	-	8.91	-	13.61	6.18	NP	NP	6.18	-	7.1	-	13.55	7.99	NP	NP	7.99	-	6.75	-	13.55	8.34	NP	NP	8.34
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	11.82	-	14.05	-1.31	NP	NP	-1.31	-	12.06	-	14.11	-1.55	NP	NP	-1.55	-	10.24	-	14.1	0.27	NP	NP	0.27	-	11.62	-	14.07	-1.11	NP	NP	-1.11
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	8.19	-	16.8	1.17	NP	NP	1.17	-	8.78	-	16.64	0.58	NP	NP	0.58	-	8.48	-	16.7	0.88	NP	NP	0.88	-	9.05	-	16.7	0.31	NP	NP	0.31
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	9.65	-	14.6	4.21	NP	NP	4.21	-	9.45	-	14.7	4.41	NP	NP	4.41	-	9.85	-	14.65	4.01	NP	NP	4.01	-	9.86	-	14.75	4.00	NP	NP	4.00
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	-	10.37	-	16.75	1.87	NP	NP	1.87	trace	10.78	-	16.9	1.46	trace	NP	1.46	trace	10.47	-	16.8	1.77	trace	NP	1.77	trace	10.85	-	16.8	1.39	trace	NP	1.39
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.47	-	15.90	2.25	NP	NP	2.25	-	10.73	-	15.86	1.99	NP	NP	1.99	-	10.5	-	15.84	2.22	NP	NP	2.22	-	10.71	-	15.85	2.01	NP	NP	2.01
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	8.91	-	17	6.07	NP	NP	6.07	-	8.85	-	17.17	6.13	NP	NP	6.13	-	8.91	-	17.05	6.07	NP	NP	6.07	-	9.12	-	17.2	5.86	NP	NP	5.86
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	12.25	-	17.9	2.05	NP	NP	2.05	-	12.35	-	18	1.95	NP	NP	1.95	-	12.31	-	17.92	1.99	NP	NP	1.99	-	12.71	-	17.9	1.59	NP	NP	1.59
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	11.27	11.3	-	12.35	1.78	0.03	NP	1.81	11.67	11.68	-	12.45	1.40	0.01	NP	1.41	trace	11.4	-	12.4	1.68	trace	NP	1.68	trace	11.77	-	12.5	1.31	trace	NP	1.31
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	11.9	-	13.8	2.42	NP	NP	2.42	-	12.3	-	13.8	2.02	NP	NP	2.02	-	12.08	-	13.8	2.24	NP	NP	2.24	-	12.4	-	13.8	1.92	NP	NP	1.92
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	6.71	-	8.46	NS	NP	NP	NS	-	5.41	-	8.6	NS	NP	NP	NS	-	6.59	-	8.46	NS	NP	NP	NS	-	5.27	-	8.55	NS	NP	NP	NS
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	-	8.24	-	11.07	NS	NP	NP	NS	-	8.35	-	11.2	NS	NP	NP	NS	-	8.18	-	11.1	NS	NP	NP	NS	-	8.39	-	11.2	NS	NP	NP	NS
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.25	-	16.8	2.78	NP	NP	2.78	-	13.46	-	16.81	2.57	NP	NP	2.57	-	13.36	-	16.8	2.67	NP	NP	2.67	-	13.68	-	16.85	2.35	NP	NP	2.35
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.02	-	14.95	2.76	NP	NP	2.76	-	13.25	-	15.04	2.53	NP	NP	2.53	-	13.14	-	15	2.64	NP	NP	2.64	-	13.44	-	15.05	2.34	NP	NP	2.34
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.31	-	17	2.83	NP	NP	2.83	-	13.52	-	17.06	2.62	NP	NP	2.62	-	13.44	-	17.05	2.70	NP	NP	2.70	-	13.74	-	17.05	2.40	NP	NP	2.40
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.77	-	17.09	2.75	NP	NP	2.75	-	14.99	-	17.12	2.53	NP	NP	2.53	-	14.86	-	17.1	2.66	NP	NP	2.66	-	15.16	-	17.15	2.36	NP	NP	2.36
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP																																
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP									-	9.62	-	20.04	-0.09	NP	NP	-0.09	-	7.7	-	20.05	1.83	NP	NP	1.83	-	8.98	-	20.10	0.55	NP	NP	0.55
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	9.4	-	17.3	3.43	NP	NP	3.43	-	9.19	-	17.41	3.64	NP	NP	3.64	-	9.49	-	17.43	3.34	NP	NP	3.34	-	9.62	-	17.42	3.21	NP	NP	3.21
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	7.65	-	17.75	3.96	NP	NP	3.96	-	6.88	-	17.65	4.73	NP	NP	4.73	-	7.72	-	17.68	3.89	NP	NP	3.89	-	7.22	-	17.65	4.39	NP	NP	4.39
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP																																
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP																																
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP																																
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP																																
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP																																

Notes

Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the CNG Fueling Station portion of the Property
Elevations are relative to NAVD88
NP - Indicates No Product observed.
NS - Not Surveyed
Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	November 2013								June 2014								July 2, 2014								July 23, 2014							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP									-	9.82	-	14.7	7.51	NP	NP	7.51	-	10.06	-	14.45	7.27	NP	NP	7.27	-	10.1	-	14.44	7.23	NP	NP	7.23
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP									-	10.87	-	29.7	6.46	NP	NP	6.46	-	10.05	-	29.6	7.28	NP	NP	7.28	-	10.12	-	29.6	7.21	NP	NP	7.21
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP									-	9.42	-	14.7	7.25	NP	NP	7.25	-	9.59	-	14.56	7.08	NP	NP	7.08	-	9.66	-	14.55	7.01	NP	NP	7.01
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP									-	9.35	-	29.5	7.24	NP	NP	7.24	-	9.48	-	29.44	7.11	NP	NP	7.11	-	9.57	-	29.41	7.02	NP	NP	7.02
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	7.19	-	15.45	4.63	NP	NP	4.63	-	6.32	-	15.5	5.50	NP	NP	5.50	-	6.3	-	15.45	5.52	NP	NP	5.52	-	6.25	-	15.45	5.57	NP	NP	5.57
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	9.44	trace	17.7	2.00	NP	trace	2.00	-	8.82	Trace	17.8	2.62	NP	Trace	2.62	-	8.91	Trace	18.11	2.53	NP	Trace	2.53	-	9.49	Trace	17.91	1.95	NP	Trace	1.95
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	7.41	-	14.72	5.63	NP	NP	5.63	-	6.44	-	15	6.60	NP	NP	6.60																
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Well pinched - can not gauge								Well pinched - able to sample - can not gauge																							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	9.76	-	15.35	2.99	NP	NP	2.99	-	8.42	-	15.3	4.33	NP	NP	4.33																
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.77	-	18	5.29	NP	NP	5.29	-	7.92	-	17.97	6.14	NP	NP	6.14																
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	8.2	-	14.9	5.24	NP	NP	5.24	-	7.07	-	14.8	6.37	NP	NP	6.37																
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	4.81	-	10.9	5.52	NP	NP	5.52	-	4.55	-	11.5	5.78	NP	NP	5.78	-	4.65	-	11.35	5.68	NP	NP	5.68	-	4.65	-	11.31	5.68	NP	NP	5.68
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	-	6.54	-	9.5	5.42	NP	NP	5.42	-	5.01	-	10.1	6.95	NP	NP	6.95	-	6.27	-	10.2	5.69	NP	NP	5.69	-	6.15	-	10.13	5.81	NP	NP	5.81
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	9.48	-	13.8	3.45	NP	NP	3.45	-	8.08	-	12.45	4.85	NP	NP	4.85																
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	10.07	-	15	3.66	NP	NP	3.66	-	8.94	-	15.1	4.79	NP	NP	4.79																
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	13.24	13.25	-	15.2	5.85	0.01	NP	5.86	Trace	12.08	-	18	7.02	Trace	NP	6.08	Trace	12.41	-	18	6.69	Trace	NP	6.69	-	12.66	-	17.94	6.44	NP	NP	6.44
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.62	-	16.74	5.73	NP	NP	5.73	-	8.91	-	17	6.44	NP	NP	6.44																
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	trace	10.26	-	16.6	3.39	trace	NP	3.39	-	8.86	-	18.5	4.79	NP	NP	4.79	Trace	9.07	-	18.5	4.58	Trace	NP	4.58	9.41	9.49	-	18.5	4.16	0.08	NP	4.22
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	10.35	10.36	-	17.8	2.66	0.01	NP	2.67	Trace	8.51	-	17.3	4.51	Trace	NP	4.51																
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	-	9.86	-	17.3	2.94	NP	NP	2.94	9.22	9.25	-	17.8	3.55	0.03	NP	3.57																
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	8.97	-	10.5	3.97	NP	NP	3.97	-	7.13	-	11.3	5.81	NP	NP	5.81																
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	11.22	-	16.2	3.05	NP	NP	3.05	-	9.98	-	16.3	4.29	NP	NP	4.29																
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP																																
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	5.78	-	9.5	3.89	NP	NP	3.89	-	4.26	-	9.3	5.41	NP	NP	5.41	-	5.54	-	9.35	4.13	NP	NP	4.13	-	5.42	-	9.3	4.25	NP	NP	4.25
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP									-	6.74	-	13.75	7.32	NP	NP	7.32	-	7.06	-	13.74	7.00	NP	NP	7.00	-	7.41	-	14.00	6.65	NP	NP	6.65
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP									-	6.55	-	15.2	6.73	NP	NP	6.73	-	6.55	-	14.91	6.73	NP	NP	6.73	-	6.62	-	14.91	6.66	NP	NP	6.66
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP									-	6.18	-	29.7	6.95	NP	NP	6.95	-	6.3	-	29.67	6.83	NP	NP	6.83	-	6.38	-	29.66	6.75	NP	NP	6.75
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP									-	6.55	-	29.7	5.40	NP	NP	5.40	-	6.45	-	29.58	5.50	NP	NP	5.50	-	6.45	-	29.57	5.50	NP	NP	5.50
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP									-	6.8	-	14.15	4.84	NP	NP	4.84	-	6.75	-	14.16	4.89	NP	NP	4.89	-	6.72	-	14.15	4.92	NP	NP	4.92
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP									-	6.59	-	14.9	4.90	NP	NP	4.90	-	6.55	-	14.8	4.94	NP	NP	4.94	-	6.52	-	14.78	4.97	NP	NP	4.97
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP									-	4.73	-	14.15	5.45	NP	NP	5.45	-	4.86	-	14.01	5.32	NP	NP	5.32	-	4.85	-	13.98	5.33	NP	NP	5.33
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP									-	1.79	-	11.58	7.17	NP	NP	7.17	-	2.58	-	11.41	6.38	NP	NP	6.38	-	2.46	-	11.36	6.50	NP	NP	6.50
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP									-	4.44	-	29.9	5.39	NP	NP	5.39	-	4.11	-	29.9	5.72	NP	NP	5.72	-	4.02	-	29.9	5.81	NP	NP	5.81
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP									-	7.07	-	32.7	5.75	NP	NP	5.75	-	7.59	-	32.68	5.23	NP	NP	5.23	-	7.58	-	32.56	5.24	NP	NP	5.24
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP									-	5.82	-	15.12	4.76	NP	NP	4.76	-	6.13	-	15	4.45	NP	NP	4.45	-	6.1	-	14.99	4.48	NP	NP	4.48
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP									-	5.07	-	32.75	5.72	NP	NP	5.72	-	6.25	-	32.6	4.54	NP	NP	4.54	-	6.6	-	32.6	4.19	NP	NP	4.19
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP									-	8.17	-	38.2	3.47	NP	NP	3.47	-	8.57	-	38.11	3.07	NP	NP	3.07	-	10.16	-	38.05	1.48	NP	NP	1.48
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP									-	9.12	-	36.5	4.36	NP	NP	4.36	-	9.2	-	36.42	4.28	NP	NP	4.28	-	9.64	-	36.4	3.84	NP	NP	3.84
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP									-	11.8	-	33.1	7.14	NP	NP	7.14	-	12.06	-	33.15	6.88	NP	NP	6.88	-	12.38	-	33.7	6.56	NP	NP	6.56
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																																
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																																
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																																
NG	GZ-503S	19.71	19.61	16.77	Standpipe	Shallow	9/15/2021	14.84	2 - 12	NP	NP																																
NG	GZ-502S	13.93	13.74	11.05	Standpipe	Shallow	9/14/2021	15.68	5 - 15	NP	NP																																
NG	GZ-501S	15.11	14.92	12.22	Standpipe	Shallow	9/14/2021	16.12	3 - 13	NP	NP																																
NG	GZ-500S	19.95	19.75	16.80	Standpipe	Shallow	9/14/2021	16.83	5 - 15	NP	NP																																
NG	GZ-500D	19.64	19.49	16.80	Standpipe	Deep	9/15/2021	33.06	20- 30	NP	NP																																
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.77	-	13.45	1.50	NP	NP	1.50	-	10.39	-	17.4	1.88	NP	NP	1.88	-	10.55	-	17.25	1.72	NP	NP	1.72	-	10.68	-	17.35	1.59	NP	NP	1.59
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.61	-	17.2	0.05	NP	NP	0.05	Well covered with gravel - can not gauge																							
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	10.27	-	11.03	2.68	NP	NP	2.68	-	9.09	-	14.2	3.86	NP	NP	3.86																
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	12.26	14.17	-	14.35	-0.45	1.91	NP	1.17	11.04	11.95	-	14.63	1.77	0.91	NP	2.54	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1							
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	10.3	-	13.05	2.62	NP	NP	2.62	-	9.75	-	13	3.17	NP	NP	3.17																
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.46	-	17.48	2.92	NP	NP	2.92	-	11.84	-	17.8	3.54	NP	NP	3.54									-	12.06	-	17.7	3.32	NP	NP	3.32
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	-	11.79	-	14.35	1.66	NP	NP	1.66	11.38	11.55	-	14.95	1.90	0.17	NP	2.04																
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP																																
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	10.39	-	12.8	1.77	NP	NP	1.77	-	9.16	-	12.98	3.00	NP	NP	3.00																
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	8.11	-	13.2	1.56	NP	NP	1.56	-	7.75	-	13.32	1.92	NP	NP	1.92																
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	7.01	-	12.81	8.08	NP	NP	8.08	-	10.13	-	13.1	4.96	NP	NP	4.96																
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	10.28	-	11.8	0.23	NP	NP	0.23	-	12.15	-	13.16	-1.64	NP	NP	-1.64																
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	9.25	-	16.5	0.11	NP	NP	0.11	-	8.7	-	17.65	0.66	NP	NP	0.66																
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	10.8	-	14.64	3.06	NP	NP	3.06	-	9.42	-	14.75	4.44	NP	NP	4.44																
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	-	10.7	-	16.85	1.54	NP	NP	1.54	-	10.4	-	16.92	1.84	NP	NP	1.84																
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.9	-	15.86	1.82	NP	NP	1.82	-	10.45	-	15.95	2.27	NP	NP	2.27																
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	9.26	-	16.88	5.72	NP	NP	5.72	-	8.52	-	17.54	6.46	NP	NP	6.46	-	8.66	-	17.55	6.32	NP	NP	6.32	-	8.89	-	17.54	6.09	NP	NP	6.09
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	12.8	-	17.92	1.50	NP	NP	1.50	-	11.98	-	17.9	2.32	NP	NP	2.32																
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	11.60	11.61	-	12.4	1.47	0.01	NP	1.48	Trace	11.33	-	12.56	1.75	NP	NP	1.75									Trace	11.51	-	12.56	1.57	Trace	NP	12.56
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	12.25	-	13.7	2.07	NP	NP	2.07	-	12.59	-	14.5	1.73	NP	NP	1.73									-	10.68	-	17.35	3.64	NP	NP	3.64
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	7.35	-	8.45	NS	NP	NP	NS	-	4.94	-	8.7	NS	NP	NP	NS																
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	-	8.68	-	11.1	NS	NP	NP	NS	-	7.9	-	11.32	NS	NP	NP	NS																
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.94	-	16.8	2.09	NP	NP	2.09	-	13.33	-	16.98	2.70	NP	NP	2.70																
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.66	-	15	2.12	NP	NP	2.12	-	13.1	-	15.15	2.68	NP	NP	2.68																
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	14.01	-	17.03	2.13	NP	NP	2.13	-	13.35	-	17.12	2.79	NP	NP	2.79																
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	15.45	-	17.1	2.07	NP	NP	2.07	-	14.81	-	17.2	2.71	NP	NP	2.71																
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP																																
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	8.1	-	20.08	1.43	NP	NP	1.43	-	7.79	-	20.08	1.74	NP	NP	1.74																
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	10.21	-	17.53	2.62	NP	NP	2.62	-	9.27	-	17.44	3.56	NP	NP	3.56																
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	8.67	-	17.65	2.94	NP	NP	2.94	-	7.19	-	17.72	4.42	NP	NP	4.42																
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP																	10.24	10.26	-	14	3.92	0.02	NP	3.94	Trace	10.46	-	14.02	3.72	Trace	NP	3.72
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP									-	11.91	-	21.94	2.28	NP	NP	2.28	-	12.28	-	21.80	1.91	NP	NP	1.91	-	12.48	-	21.81	1.71	NP	NP	1.71
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP									-	11.83	-	37.00	2.28	NP	NP	2.28	-	12.18	-	37.00	1.93	NP	NP	1.93	-	12.48	-	36.95	1.63	NP	NP	1.63
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP									-	11.13	-	33.05	1.80	NP	NP	1.80	-	11.26	-	32.90	1.67	NP	NP	1.67	-	11.36	-	32.93	1.57	NP	NP	1.57
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP									-	9.86	-	32.23	5.04	NP	NP	5.04	-	9.91	-	32.20	4.99	NP	NP	4.99	-	10.15	-	32.25	4.75	NP	NP	4.75

Notes

Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the CNG Fueling Station portion of the Property
Elevations are relative to NAVD88
NP - Indicates No Product observed.
NS - Not Surveyed
Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	October 2014								April 2015								October 2015								May 2016							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	10.52	-	14.57	6.81	NP	NP	6.81	-	9.51	-	14.4	7.82	NP	NP	7.82	-	10.89	-	14.73	6.44	NP	NP	6.44	-	10.18	-	14.5	7.15	NP	NP	7.15
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	10.49	-	29.72	6.84	NP	NP	6.84	-	9.61	-	29.66	7.72	NP	NP	7.72	-	10.84	-	29.64	6.49	NP	NP	6.49	-	10.22	-	29.6	7.11	NP	NP	7.11
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	9.99	-	14.56	6.68	NP	NP	6.68	-	9.4	-	14.56	7.27	NP	NP	7.27	-	10.23	-	14.76	6.44	NP	NP	6.44	-	9.9	-	14.54	6.77	NP	NP	6.77
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	9.9	-	29.45	6.69	NP	NP	6.69	-	9.35	-	29.38	7.24	NP	NP	7.24	-	10.19	-	29.42	6.40	NP	NP	6.40	-	9.83	-	29.38	6.76	NP	NP	6.76
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	7.57	-	15.43	4.25	NP	NP	4.25	-	6.02	-	14.97	5.80	NP	NP	5.80	-	6.72	-	15.61	5.10	NP	NP	5.10	-	6.1	-	15.4	5.72	NP	NP	5.72
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	-	9.35	Trace	18.1	2.09	NP	Trace	2.09	-	8.51	trace	18.1	2.93	NP	trace	2.93	-	9.24	trace	18	2.20	NP	trace	2.20	-	9.48	trace	17.9	1.96	NP	trace	1.96
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	-	7.24	-	14.98	5.80	NP	NP	5.80	-	6.3	-	15.02	6.74	NP	NP	6.74	-	7.27	-	15.12	5.77	NP	NP	5.77	-	6.92	-	14.95	6.12	NP	NP	6.12
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Well pinched - can not gauge								Well pinched - can not gauge								Decommissioned October 2015								Decommissioned October 2015							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	-	8.84	-	15.25	3.91	NP	NP	3.91	-	8.16	-	15.38	4.59	NP	NP	4.59	-	9.2	-	15.52	3.55	NP	NP	3.55	-	8.95	-	15.3	3.80	NP	NP	3.80
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.33	-	17.9	5.73	NP	NP	5.73	-	7.83	-	17.96	6.23	NP	NP	6.23	-	8.63	-	18.08	5.43	NP	NP	5.43	-	8.25	-	-	5.81	NP	NP	5.81
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	8.29	-	14.78	5.15	NP	NP	5.15	-	6.82	-	14.79	6.62	NP	NP	6.62	-	8	-	15	5.44	NP	NP	5.44	-	7.87	-	-	5.57	NP	NP	5.57
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	4.92	-	11.35	5.41	NP	NP	5.41	-	3.82	-	11.3	6.51	NP	NP	6.51	-	5.13	-	11.64	5.20	NP	NP	5.20	-	4.5	-	11.32	5.83	NP	NP	5.83
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	-	5.63	-	10.2	6.33	NP	NP	6.33	-	4.32	-	10.19	7.64	NP	NP	7.64	-	6.27	-	10.44	5.69	NP	NP	5.69	-	6	-	10.15	5.96	NP	NP	5.96
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	-	8.77	-	12.95	4.16	NP	NP	4.16	-	6.87	-	12.12	6.06	NP	NP	6.06	-	9.31	-	12.2	3.62	NP	NP	3.62	-	8	-	11.12	4.93	NP	NP	4.93
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	-	9.22	-	15.05	4.51	NP	NP	4.51	-	8.6	-	15.07	5.13	NP	NP	5.13	-	9.54	-	15.3	4.19	NP	NP	4.19	-	9.18	-	15	4.55	NP	NP	4.55
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	-	12.88	-	18	6.22	NP	NP	6.22	-	11.29	-	18	7.81	NP	NP	7.81	trace	13.14	-	18.15	5.96	trace	NP	5.96	-	12.32	-	17.95	6.78	NP	NP	6.78
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	-	9.34	-	17	6.01	NP	NP	6.01	-	8.51	-	17	6.84	NP	NP	6.84	-	9.58	-	17.18	5.77	NP	NP	5.77	-	9.19	-	17	6.16	NP	NP	6.16
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	-	9.45	-	18.55	4.20	NP	NP	4.20	7.80	7.81	-	18.54	5.84	0.01	NP	5.84	trace	10.07	-	18.62	3.58	trace	NP	3.58	8.78	8.79	-	18.14	4.86	0.01	NP	4.86
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	9.88	9.92	-	17.3	3.10	0.04	NP	3.13	8.29	8.3	-	17.82	4.72	0.01	NP	4.73	10.29	10.32	-	17.8	2.70	0.03	NP	2.72	-	8.42	-	17.19	4.60	NP	NP	4.60
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	-	9.12	-	17.3	3.68	NP	NP	3.68	-	7.44	-	17.32	5.36	NP	NP	5.36	-	9.65	-	17.45	3.15	NP	NP	3.15	-	9.11	-	17.68	3.69	NP	NP	3.69
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	-	7.5	-	10.5	5.44	NP	NP	5.44	-	6.38	-	10.45	6.56	NP	NP	6.56	-	8.64	-	10.8	4.30	NP	NP	4.30	-	7.66	-	10.31	5.28	NP	NP	5.28
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	-	10.34	-	18.3	3.93	NP	NP	3.93	-	9.61	-	16.3	4.66	NP	NP	4.66	-	10.72	-	16.5	3.55	NP	NP	3.55	-	10.34	-	16.32	3.93	NP	NP	3.93
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	-	4.87	-	9.3	4.80	NP	NP	4.80	-	3.62	-	9.3	6.05	NP	NP	6.05	-	5.55	-	9.48	4.12	NP	NP	4.12	-	5.21	-	9.1	4.46	NP	NP	4.46
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	-	7.74	-	13.75	6.32	NP	NP	6.32	Buried under Snow								-	8.00	-	14.15	6.06	NP	NP	6.06	-	7.14	-	13.68	6.92	NP	NP	6.92
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	9.98	-	29.97	3.30	NP	NP	3.30	-	6.44	-	15.01	6.84	NP	NP	6.84	-	7.14	-	15.12	6.14	NP	NP	6.14	-	6.75	-	14.9	6.53	NP	NP	6.53
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	9.93	-	15.05	3.20	NP	NP	3.20	-	6.16	-	29.65	6.97	NP	NP	6.97	-	7.9	-	29.67	5.23	NP	NP	5.23	-	6.49	-	29.62	6.64	NP	NP	6.64
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	7.00	-	29.62	4.95	NP	NP	4.95	-	6.18	-	29.76	5.77	NP	NP	5.77	-	6.45	-	29.6	5.50	NP	NP	5.50	-	6.01	-	29.5	5.94	NP	NP	5.94
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	6.94	-	14.14	4.70	NP	NP	4.70	-	6.31	-	14.31	5.33	NP	NP	5.33	-	7.13	-	14.32	4.51	NP	NP	4.51	-	6.45	-	14.12	5.19	NP	NP	5.19
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	6.73	-	14.77	4.76	NP	NP	4.76	-	6.05	-	14.83	5.44	NP	NP	5.44	-	6.96	-	14.96	4.53	NP	NP	4.53	-	6.05	-	14.75	5.44	NP	NP	5.44
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	-	5.09	-	14	5.09	NP	NP	5.09	-	3.84	-	14.04	6.34	NP	NP	6.34	-	5.24	-	14.22	4.94	NP	NP	4.94	4.47	4.55	-	14	5.63	0.08	NP	5.70
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	-	2.5	-	11.5	6.46	NP	NP	6.46	-	1.23	-	11.4	7.73	NP	NP	7.73	-	2.78	-	11.76	6.18	NP	NP	6.18	-	2.2	-	11.38	6.76	NP	NP	6.76
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	-	4.53	-	29.9	5.30	NP	NP	5.30	-	3.59	-	29.9	6.24	NP	NP	6.24	-	4.58	-	30	5.25	NP	NP	5.25	-	4.05	-	29.8	5.78	NP	NP	5.78
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	-	7.47	-	32.55	5.35	NP	NP	5.35	-	6.52	-	32.58	6.30	NP	NP	6.30	-	7.99	-	32.7	4.83	NP	NP	4.83	-	7.45	-	32.6	5.37	NP	NP	5.37
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	-	6	-	14.9	4.58	NP	NP	4.58	-	5.87	-	14.44	4.71	NP	NP	4.71	-	6.29	-	14.25	4.29	NP	NP	4.29	-	5.93	-	14	4.65	NP	NP	4.65
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	-	6.54	-	32.7	4.25	NP	NP	4.25	-	6.19	-	32.79	4.60	NP	NP	4.60	-	6.68	-	32.63	4.11	NP	NP	4.11	-	6.75	-	32.25	4.04	NP	NP	4.04
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	-	8.71	-	38.2	2.93	NP	NP	2.93	-	8.83	-	38.15	2.81	NP	NP	2.81	-	9.33	-	38.15	2.31	NP	NP	2.31	-	9.65	-	38.1	1.99	NP	NP	1.99
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	-	9.53	-	36.35	3.95	NP	NP	3.95	-	9.09	-	36.5	4.39	NP	NP	4.39	-	9.64	-	36.42	3.84	NP	NP	3.84	-	9.46	-	36.28	4.02	NP	NP	4.02
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	-	12.51	-	33.15	6.43	NP	NP	6.43	-	11.34	-	33.13	7.60	NP	NP	7.60	-	12.8	-	33.3	6.14	NP	NP	6.14	-	12.17	-	33.07	6.77	NP	NP	6.77
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP																	-	8.71	-	16.25	6.21	NP	NP	6.21	-	8.22	-	15.81	6.70	NP	NP	6.70
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP																	-	7.43	-	14.65	6.86	NP	NP	6.86	-	7.3	-	14.42	6.99	NP	NP	6.99
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																																
NG	GZ-503S	19.71	19.61	16.77	Standpipe	Shallow	9/15/2021	14.84	2 - 12	NP	NP																																
NG	GZ-502S	13.93	13.74	11.05	Standpipe	Shallow	9/14/2021	15.68	5 - 15	NP	NP																																
NG	GZ-501S	15.11	14.92	12.22	Standpipe	Shallow	9/14/2021	16.12	3 - 13	NP	NP																																
NG	GZ-500S	19.95	19.75	16.80	Standpipe	Shallow	9/14/2021	16.83	5 - 15	NP	NP																																
NG	GZ-500D	19.64	19.49	16.80	Standpipe	Deep	9/15/2021	33.06	20- 30	NP	NP																																
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	-	10.67	-	17.42	1.60	NP	NP	1.60	-	10.76	-	17.28	1.51	NP	NP	1.51	-	10.65	-	17.32	1.62	NP	NP	1.62	-	10.8	-	17.32	1.47	NP	NP	1.47
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	11.90	-	16.23	-1.24	NP	NP	-1.24	-	11.04	-	16.20	-0.38	NP	NP	-0.38	-	10.93	-	19.56	-0.03	NP	NP	-0.03	-	10.32	-	15.62	0.34	NP	NP	0.34
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	-	9.92	-	14.22	3.03	NP	NP	3.03	-	8.71	-	14	4.24	NP	NP	4.24	-	10.18	-	14.28	2.77	NP	NP	2.77	-	9.17	-	14	3.78	NP	NP	3.78
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1							
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	10	-	13.29	2.92	NP	NP	2.92	-	9.62	-	13	3.30	NP	NP	3.30	-	10.08	-	13.29	2.84	NP	NP	2.84	-	9.62	-	12.9	3.30	NP	NP	3.30
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.28	-	17.81	3.10	NP	NP	3.10	-	11.49	-	17.68	3.89	NP	NP	3.89	-	12.22	-	17.7	3.16	NP	NP	3.16	-	9.78	-	17.65	5.60	NP	NP	5.60
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	11.68	11.76	-	14.95	1.69	0.08	NP	1.76	11.53	11.55	-	14.8	1.90	0.02	NP	1.92	11.43	11.53	-	12.62	1.92	0.10	NP	2.01	11.52	11.53	-	12.31	1.92	0.01	NP	1.93
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP																																
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	-	10.3	-	13.05	1.86	NP	NP	1.86	-	9.3	-	12.85	2.86	NP	NP	2.86	-	9.93	-	13.12	2.23	NP	NP	2.23	-	9.69	-	12.84	2.47	NP	NP	2.47
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	-	8.31	-	13.38	1.36	NP	NP	1.36	-	10.5	-	15.67	-0.83	NP	NP	-0.83	-	7.76	-	13.49	1.91	NP	NP	1.91	-	8	-	13.19	1.67	NP	NP	1.67
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	12.32	-	13.21	2.77	NP	NP	2.77	-	6.42	-	12.95	8.67	NP	NP	8.67	-	12.78	-	13.17	2.31	NP	NP	2.31	-	12.18	-	12.9	2.91	NP	NP	2.91
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	11.94	-	13.15	-1.43	NP	NP	-1.43	-	11.88	-	13.07	-1.37	NP	NP	-1.37	-	10	-	13.15	0.51	NP	NP	0.51	-	10.71	-	12.92	-0.20	NP	NP	-0.20
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	-	9.02	-	16.33	0.34	NP	NP	0.34	-	8.95	-	16.4	0.41	NP	NP	0.41	-	8.82	-	16.71	0.54	NP	NP	0.54	-	8.95	-	16.5	0.41	NP	NP	0.41
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	10.01	-	14.84	3.85	NP	NP	3.85	-	9.23	-	14.6	4.63	NP	NP	4.63	-	10.45	-	14.82	3.41	NP	NP	3.41	-	9.65	-	14.55	4.21	NP	NP	4.21
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	-	10.7	-	16.96	1.54	NP	NP	1.54	10.75	10.79	-	16.8	1.45	0.04	NP	1.48	trace	10.6	-	17.84	1.64	trace	NP	1.64	10.69	10.71	-	16.8	1.53	0.02	NP	1.55
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	-	10.7	-	15.88	2.02	NP	NP	2.02	-	10.51	-	15.75	2.21	NP	NP	2.21	-	10.49	-	15.87	2.23	NP	NP	2.23	-	10.58	-	15.85	2.14	NP	NP	2.14
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	9.15	-	17.6	5.83	NP	NP	5.83	-	8.18	-	17.75	6.80	NP	NP	6.80	-	9.14	-	17.52	5.84	NP	NP	5.84	-	8.82	-	17.43	6.16	NP	NP	6.16
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	-	11.57	-	12.67	2.73	NP	NP	2.73	trace	12.38	-	17.85	1.92	trace	NP	1.92	-	12.68	-	18	1.62	NP	NP	1.62	-	11.62	-	12.35	2.68	NP	NP	2.68
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Trace	10.71	-	12.55	2.37	Trace	NP	2.37	trace	11.62	-	12.4	1.46	trace	NP	1.46	-	11.35	-	12.44	1.73	NP	NP	1.73	-	11.05	-	0.00	2.03	NP	NP	2.03
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	-	12.8	-	14.4	1.52	NP	NP	1.52	12.82	12.83	-	14.1	1.49	0.01	NP	1.50	-	12.69	-	14.34	1.63	NP	NP	1.63	-	12.77	-	14.1	1.55	NP	NP	1.55
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	-	5.4	-	8.82	NS	NP	NP	NS	-	4.05	-	8.45	NS	NP	NP	NS	-	5.99	-	8.27	NS	NP	NP	NS	trace	6.07	-	8.44	NS	trace	NP	NS
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Trace	8.19	-	11.3	NS	Trace	NP	NS	-	7.9	-	11.1	NS	NP	NP	NS	-	8.23	-	11.34	NS	NP	NP	NS	trace	8.34	-	11.1	NS	trace	NP	NS
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.49	-	16.98	2.54	NP	NP	2.54	-	13.08	-	16.3	2.95	NP	NP	2.95	-	13.65	-	16.95	2.38	NP	NP	2.38	-	13.35	-	16.75	2.68	NP	NP	2.68
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.31	-	18.22	2.47	NP	NP	2.47	-	12.89	-	15	2.89	NP	NP	2.89	-	13.4	-	15.19	2.38	NP	NP	2.38	-	13.13	-	14.96	2.65	NP	NP	2.65
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.38	-	17.08	2.76	NP	NP	2.76	-	13.16	-	17	2.98	NP	NP	2.98	-	13.72	-	17.21	2.42	NP	NP	2.42	-	13.31	-	16.9	2.83	NP	NP	2.83
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.94	-	17.22	2.58	NP	NP	2.58	-	14.61	-	17	2.91	NP	NP	2.91	-	15.1	-	17.37	2.42	NP	NP	2.42	-	14.8	-	16.6	2.72	NP	NP	2.72
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP									-	9.54	-	20.23	3.56	NP	NP	3.56	-	9.85	-	20.21	3.25	NP	NP	3.25	-	9.77	-	20.22	3.33	NP	NP	3.33
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	9.89	-	20.17	-0.36	NP	NP	-0.36	-	9.24	-	20.10	0.29	NP	NP	0.29	-	7.8	-	20.28	1.73	NP	NP	1.73	-	8.80	-	20.00	0.73	NP	NP	0.73
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	-	9.52	-	17.49	3.31	NP	NP	3.31	-	8.54	-	17.3	4.29	NP	NP	4.29	-	9.85	-	17.45	2.98	NP	NP	2.98	-	9.30	-	18.65	3.53	NP	NP	3.53
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	-	8.05	-	17.62	3.56	NP	NP	3.56	-	6.43	-	17.7	5.18	NP	NP	5.18	-	8.48	-	17.73	3.13	NP	NP	3.13	-	7.41	-	18.59	4.20	NP	NP	4.20
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	10.67	10.68	-	14	3.50	0.01	NP	3.51	trace	9.64	-	13.9	4.54	trace	NP	4.54	trace	11.14	-	14.14	3.04	trace	NP	3.04	trace	10.21	-	13.9	3.97	trace	NP	3.97
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	-	12.54	-	21.76	1.65	NP	NP	1.65	-	12.3	-	21.75	1.89	NP	NP	1.89	-	12.52	-	21.89	1.67	NP	NP	1.67	-	11.98	-	21.75	2.21	NP	NP	2.21
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	-	12.43	-	36.93	1.68	NP	NP	1.68	-	12.2	-	37.00	1.91	NP	NP	1.91	-	12.47	-	37.00	1.64	NP	NP	1.64	-	11.92	-	36.85	2.19	NP	NP	2.19
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	-	11.39	-	33.07	1.54	NP	NP	1.54	-	11.46	-	32.90	1.47	NP	NP	1.47	-	11.32	-	32.93	1.61	NP	NP	1.61	-	11.45	-	32.8	1.48	NP	NP	1.48
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	10.38	-	32.30	4.52	NP	NP	4.52	-	9.58	-	32.20	5.32	NP	NP	5.32	-	10.32	-	32.27	4.58	NP	NP	4.58	-	10.05	-	32.15	4.85	NP	NP	4.85

Notes

Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the CNG Fueling Station portion of the Property
Elevations are relative to NAVD88
NP - Indicates No Product observed.
NS - Not Surveyed
Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	October 2016								May 2017								March 2018								November 2018							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	10.54	-	14.5	6.79	NP	NP	6.79	-	9.11	-	14.43	8.22	NP	NP	8.22	-	8.88	-	14.45	8.45	NP	NP	8.45	-	8.01	-	14.43	9.32	NP	NP	9.32
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	10.55	-	29.8	6.78	NP	NP	6.78	-	9.21	-	29.64	8.12	NP	NP	8.12	-	8.99	-	29.80	8.34	NP	NP	8.34	-	8.19	-	29.59	9.14	NP	NP	9.14
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	10.07	-	14.52	6.60	NP	NP	6.60	-	9.06	-	14.53	7.61	NP	NP	7.61	-	8.90	-	14.77	7.77	NP	NP	7.77	-	7.98	-	14.55	8.69	NP	NP	8.69
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	10	-	29.48	6.59	NP	NP	6.59	-	9.06	-	29.32	7.53	NP	NP	7.53	-	8.84	-	29.79	7.75	NP	NP	7.75	-	7.95	-	29.37	8.64	NP	NP	8.64
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	6.57	-	15.4	5.25	NP	NP	5.25	-	5.97	-	15.42	5.85	NP	NP	5.85	-	5.15	-	14.91	6.67	NP	NP	6.67	-	4.52	-	15.41	7.30	NP	NP	7.30
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Decommissioned October 2015								Decommissioned October 2015								Decommissioned October 2015								Decommissioned October 2015							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	8.3	-	17.95	5.76	NP	NP	5.76	-	7.58	-	17.83	6.48	NP	NP	6.48	-	7.53	-	18.16	6.53	NP	NP	6.53	-	6.96	-	17.92	7.10	NP	NP	7.10
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.15	-	14.73	6.29	NP	NP	6.29	-	6.81	-	14.70	6.63	NP	NP	6.63	-	6.60	-	14.81	6.84	NP	NP	6.84	-	5.54	-	17.76	7.90	NP	NP	7.90
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	5.01	-	11.35	5.32	NP	NP	5.32	Unable to open								-	2.91	-	29.70	7.42	NP	NP	7.42	-	3.05	-	29.87	7.28	NP	NP	7.28
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.36	7.25	-	9.55	-	0.89	-	-	5.48	5.78	-	9.51	-	0.30	-	-
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	7	-	14.9	6.28	NP	NP	6.28	-	6.13	-	14.9	7.15	NP	NP	7.15	-	5.95	-	14.86	7.33	NP	NP	7.33	-	5.16	-	14.90	8.12	NP	NP	8.12
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	6.72	-	29.74	6.41	NP	NP	6.41	-	5.91	-	29.71	7.22	NP	NP	7.22	-	5.60	-	29.95	7.53	NP	NP	7.53	-	4.88	-	29.62	8.25	NP	NP	8.25
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	6.52	-	29.57	5.43	NP	NP	5.43	-	7.60	-	29.50	4.35	NP	NP	4.35	-	5.35	-	29.80	6.60	NP	NP	6.60	-	4.65	-	29.52	7.30	NP	NP	7.30
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	6.88	-	14.15	4.76	NP	NP	4.76	-	5.80	-	14.1	5.84	NP	NP	5.84	-	5.41	-	14.15	6.23	NP	NP	6.23	-	4.79	-	14.11	6.85	NP	NP	6.85
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	6.66	-	14.72	4.83	NP	NP	4.83	-	5.61	-	14.65	5.88	NP	NP	5.88	-	5.25	-	14.70	6.24	NP	NP	6.24	-	4.57	-	14.75	6.92	NP	NP	6.92
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	5.05	5.1	-	14	5.08	0.05	NP	5.12	3.67	3.69	-	13.97	6.49	0.02	NP	6.51	3.23	3.59	-	14.02	6.59	0.36	NP	6.90	2.55	2.55	-	13.96	7.63	trace	NP	7.63
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	-	2.62	-	11.45	6.34	NP	NP	6.34	-	1.20	-	11.36	7.76	NP	NP	7.76	Unable to locate well under snow cover								-	0.90	-	11.05	8.06	NP	NP	8.06
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	Unable to open								-	3.64	-	11.25	6.19	NP	NP	6.19	-	3.21	-	30	6.62	NP	NP	6.62	-	2.88	-	29.87	6.95	NP	NP	6.95
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP																	Monitoring well found in Summer 2019								Monitoring well found in Summer 2019							
NG	GZ-503S	19.71	19.61	16.77	Standpipe	Shallow	9/15/2021	14.84	2 - 12	NP	NP																																
NG	GZ-502S	13.93	13.74	11.05	Standpipe	Shallow	9/14/2021	15.68	5 - 15	NP	NP																																
NG	GZ-501S	15.11	14.92	12.22	Standpipe	Shallow	9/14/2021	16.12	3 - 13	NP	NP																																
NG	GZ-500S	19.95	19.75	16.80	Standpipe	Shallow	9/14/2021	16.83	5 - 15	NP	NP																																
NG	GZ-500D	19.64	19.49	16.80	Standpipe	Deep	9/15/2021	33.06	20- 30	NP	NP																																
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	9.45	-	15.69	1.21	NP	NP	1.21	Could not locate well								-	10.00	-	15.70	0.66	NP	NP	0.66	-	11.29	-	20.78	-0.63	NP	NP	-0.63
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1							
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.68	-	13.02	3.24	NP	NP	3.24	-	8.93	-	13.02	3.99	NP	NP	3.99	-	8.66	-	12.72	4.26	NP	NP	4.26	-	8.35	-	12.98	4.57	NP	NP	4.57
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	12.28	-	17.65	3.10	NP	NP	3.10	-	11.14	-	17.70	4.24	NP	NP	4.24	-	10.80	-	17.71	4.58	NP	NP	4.58	-	10.59	-	17.61	4.79	NP	NP	4.79
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP									Monitoring Well Lost - Found in 2017								-	11.95	-	13.75	3.03	NP	NP	-	-	13.22	-	13.78	1.76	NP	NP	-
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	Unable to open								-	12.50	-	12.93	2.59	NP	NP	2.59	-	8.90	-	13.02	6.19	NP	NP	6.19	-	7.82	-	14.61	7.27	NP	NP	7.27
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	9.51	-	13.17	1.00	NP	NP	1.00	-	11.80	-	13.10	-1.29	NP	NP	-1.29	-	9.85	-	13.05	0.66	NP	NP	0.66	Filled with sediment from construction							
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	9.81	-	14.65	4.05	NP	NP	4.05	-	8.44	-	14.65	5.42	NP	NP	5.42	-	8.45	-	14.62	5.41	NP	NP	5.41	-	6.35	-	12.94	7.51	NP	NP	7.51
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	9.03	-	17.43	5.95	NP	NP	5.95	-	8.10	-	17.47	6.88	NP	NP	6.88	-	7.88	-	17.47	7.10	NP	NP	7.10	-	7.20	-	17.41	7.78	NP	NP	7.78
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	13.57	-	16.85	2.46	NP	NP	2.46	-	12.50	-	16.25	3.53	NP	NP	3.53	-	12.46	-	17.5	3.57	NP	NP	3.57	-	11.91	-	16.79	4.12	NP	NP	4.12
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	13.26	-	15.04	2.52	NP	NP	2.52	-	12.22	-	15.17	3.56	NP	NP	3.56	-	12.13	-	15.48	3.65	NP	NP	3.65	-	11.67	-	15.04	4.11	NP	NP	4.11
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	13.52	-	17	2.62	NP	NP	2.62	-	12.45	-	17.00	3.69	NP	NP	3.69	-	12.35	-	17.80	3.79	NP	NP	3.79	-	11.85	-	16.70	4.29	NP	NP	4.29
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.92	-	17.06	2.60	NP	NP	2.60	-	13.96	-	18.50	3.56	NP	NP	3.56	-	13.75	-	18.33	3.77	NP	NP	3.77	-	13.31	-	16.99	4.21	NP	NP	4.21
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-	9.79	-	20.15	3.31	NP	NP	3.31	-	9.08	-	20.07	4.02	NP	NP	4.02	-	9.00	-	20.00	4.10	NP	NP	4.10	-	8.36	-	20.12	4.74	NP	NP	4.74
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	7.95	-	20.12	1.58	NP	NP	1.58	-	9.50	-	20.24	0.03	NP	NP	0.03	-	7.75	-	20.80	1.78	NP	NP	1.78	-	10.30	-	20.78	-0.77	NP	NP	-0.77
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	10.4	-	32.92	4.50	NP	NP	4.50	-	9.25	-	32.40	5.65	NP	NP	5.65	-	9.69	-	32.40	5.21	NP	NP	5.21	-	8.71	-	32.29	6.19	NP	NP	6.19

Notes

Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the CNG Fueling Station portion of the Property
Elevations are relative to NAVD88
NP - Indicates No Product observed.
NS - Not Surveyed
Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

TABLE 2

SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS

642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	June 2019								November 2019								June 2020								November 2020							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	9.2	-	14.4	8.13	NP	NP	8.13	-	9.9	-	14.43	7.43	NP	NP	7.43	-	9.78	-	14.46	7.55	NP	NP	7.55	-	9.8	-	14.58	7.53	NP	NP	7.53
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	9.28	-	29.50	8.05	NP	NP	8.05	-	9.93	-	29.74	7.40	NP	NP	7.40	-	9.82	-	29.6	7.51	NP	NP	7.51	-	9.95	-	29.65	7.38	NP	NP	7.38
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	8.89	-	14.5	7.78	NP	NP	7.78	-	9.57	-	14.63	7.10	NP	NP	7.10	-	9.38	-	14.63	7.29	NP	NP	7.29	-	9.48	-	14.61	7.19	NP	NP	7.19
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	8.79	-	29.45	7.80	NP	NP	7.80	-	9.47	-	29.65	7.12	NP	NP	7.12	-	9.33	-	29.61	7.26	NP	NP	7.26	-	9.43	-	29.3	7.16	NP	NP	7.16
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	4.96	-	15.45	6.86	NP	NP	6.86	-	5.63	-	15.55	6.19	NP	NP	6.19	-	5.37	-	15.53	6.45	NP	NP	6.45	-	5.6	-	15.4	6.22	NP	NP	6.22
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Decommissioned October 2015								Decommissioned October 2015								Decommissioned October 2015								Decommissioned October 2015							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	7.43	-	17.87	6.63	NP	NP	6.63	-	8.64	-	18.22	5.42	NP	NP	5.42	-	7.75	-	18.93	6.31	NP	NP	6.31	-	7.65	-	18.1	6.41	NP	NP	6.41
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.09	-	14.73	6.35	NP	NP	6.35	-	7.72	-	15.00	5.72	NP	NP	5.72	-	7.53	-	14.73	5.91	NP	NP	5.91	-	7.04	-	15	6.40	NP	NP	6.40
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	3.32	-	11.32	7.01	NP	NP	7.01	-	4.19	-	11.48	6.14	NP	NP	6.14	-	3.86	-	11.34	6.47	NP	NP	6.47	-	4.17	-	11.35	6.16	NP	NP	6.16
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	Decommissioned November 2018								Decommissioned November 2018								Decommissioned November 2018								Decommissioned November 2018							
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	5.9	-	14.91	7.38	NP	NP	7.38	-	6.45	-	14.96	6.83	NP	NP	6.83	-	6.3	-	14.93	6.98	NP	NP	6.98	-	6.03	-	15.05	7.25	NP	NP	7.25
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	5.63	-	29.64	7.50	NP	NP	7.50	-	6.57	-	30.17	6.56	NP	NP	6.56	-	6.4	-	29.93	6.73	NP	NP	6.73	-	6.36	-	30.3	6.77	NP	NP	6.77
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	5.00	-	29.67	6.95	NP	NP	6.95	-	5.78	-	29.84	6.17	NP	NP	6.17	-	5.58	-	29.54	6.37	NP	NP	6.37	-	5.71	-	29.6	6.24	NP	NP	6.24
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	5.30	-	14.15	6.34	NP	NP	6.34	-	5.96	-	14.25	5.68	NP	NP	5.68	-	5.73	-	14.16	5.91	NP	NP	5.91	-	4.85	-	14.2	6.79	NP	NP	6.79
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	5.24	-	14.72	6.25	NP	NP	6.25	-	5.86	-	14.71	5.63	NP	NP	5.63	-	5.7	-	14.77	5.79	NP	NP	5.79	-	5.7	-	14.7	5.79	NP	NP	5.79
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	3.55	3.6	-	14.04	6.58	0.05	NP	6.62	4.28	4.28	-	14.11	5.90	trace	NP	7.63	4.09	4.09	-	14.07	6.09	trace	NP	6.09	-	4.14	-	14.1	6.04	NP	NP	6.04
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	-	1.5	-	10.98	7.46	NP	NP	7.46	-	2.72	-	11.1	6.24	NP	NP	6.24	-	2.44	-	11	6.52	NP	NP	6.52	Unable to access well							
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	-	3.32	-	30	6.51	NP	NP	6.51	-	3.65	-	30.25	6.18	NP	NP	6.18	-	3.45	-	30.01	6.38	NP	NP	6.38	-	3.85	-	30.1	5.98	NP	NP	5.98
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP	Monitoring well found in Summer 2019								-	4.56	-	10.95	6.31	NP	NP	6.31									-	3.87	-	10.6	7.00	NP	NP	7.00
NG	GZ-503S	19.71	19.61	16.77	Standpipe	Shallow	9/15/2021	14.84	2 - 12	NP	NP																																
NG	GZ-502S	13.93	13.74	11.05	Standpipe	Shallow	9/14/2021	15.68	5 - 15	NP	NP																																
NG	GZ-501S	15.11	14.92	12.22	Standpipe	Shallow	9/14/2021	16.12	3 - 13	NP	NP																																
NG	GZ-500S	19.95	19.75	16.80	Standpipe	Shallow	9/14/2021	16.83	5 - 15	NP	NP																																
NG	GZ-500D	19.64	19.49	16.80	Standpipe	Deep	9/15/2021	33.06	20- 30	NP	NP																																
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	-	10.12	-	15.24	0.54	NP	NP	0.54	-	10.11	-	16.1	0.55	NP	NP	0.55	-	10.8	-	16.09	-0.14	NP	NP	-0.14	-	9.9	-	15.28	0.76	NP	NP	0.76
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1							
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	8.95	-	13.04	3.97	NP	NP	3.97	-	9.62	-	13	3.30	NP	NP	3.30	-	9.74	-	13	3.18	NP	NP	3.18	-	8.93	-	12.9	3.99	NP	NP	3.99
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	10.93	-	17.62	4.45	NP	NP	4.45	-	11.7	-	17.75	3.68	NP	NP	3.68	-	11.56	-	17.72	3.82	NP	NP	3.82	-	11.82	-	12.85	3.56	NP	NP	3.56
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-	12.06	-	13.79	2.92	NP	NP	-	-	12.48	-	13.80	2.50	NP	NP	-	-	12.58	-	13.8	2.40	NP	NP	2.4	-	12.57	-	13.82	2.41	NP	NP	2.41
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	8.15	-	12.93	6.94	NP	NP	6.94	-	11.14	-	12.95	3.95	NP	NP	3.95	-	7.55	-	12.96	7.54	NP	NP	7.54	-	5.96	-	13	9.13	NP	NP	9.13
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	Filled with sediment from construction								-	10.29	-	12.35	0.22	NP	NP	0.22	-	11.1	-	12.54	-0.59	NP	NP	-0.59	-	11.14	-	12.45	-0.63	NP	NP	-0.63
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	-	8.8	-	14.6	5.06	NP	NP	5.06	Decommissioned Summer 2019								Decommissioned Summer 2019								Decommissioned Summer 2019							
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	VHB-13	12.88	12.72	13.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	7.90	-	17.45	7.08	NP	NP	7.08	-	8.63	-	17.5	6.35	NP	NP	6.35	-	8.39	-	17.47	6.59	NP	NP	6.59	-	8.62	-	17.4	6.36	NP	NP	6.36
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	12.62	-	17.2	3.41	NP	NP	3.41	-	13.20	-	15.15	2.83	NP	NP	2.83	-	13.21	-	16.85	2.82	NP	NP	2.82	-	13.34	-	17.28	2.69	NP	NP	2.69
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	12.35	-	15.25	3.43	NP	NP	3.43	-	12.99	-	16.85	2.79	NP	NP	2.79	-	12.98	-	15.12	2.80	NP	NP	2.80	-	13.3	-	15	2.48	NP	NP	2.48
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	12.54	-	17.00	3.60	NP	NP	3.60	-	13.2	-	16.75	2.94	NP	NP	2.94	-	13.21	-	16.95	2.93	NP	NP	2.93	-	13.33	-	17.1	2.81	NP	NP	2.81
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14	-	18.20	3.52	NP	NP	3.52	-	14.67	-	18.25	2.85	NP	NP	2.85	-	14.64	-	18.19	2.88	NP	NP	2.88	-	14.87	-	18.23	2.65	NP	NP	2.65
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	-	9.00	-	20.13	4.10	NP	NP	4.10	-	9.40	-	20.32	3.70	NP	NP	3.70	-	9.59	-	20.21	3.51	NP	NP	3.51	-	9.55	-	20.27	3.55	NP	NP	3.55
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	9.27	-	20.75	0.26	NP	NP	0.26	-	7.19	-	21.70	2.34	NP	NP	2.34	-	8.78	-	20.7	0.75	NP	NP	0.75	-	8.81	-	20.92	0.72	NP	NP	0.72
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	9.08	-	32.17	5.82	NP	NP	5.82	-	9.84	-	32.55	5.06	NP	NP	5.06	-	9.64	-	32.46	5.26	NP	NP	5.26	-	9.9	-	32.69	5.00	NP	NP	5.00

Notes

Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the CNG Fueling Station portion of the Property
Elevations are relative to NAVD88
NP - Indicates No Product observed.
NS - Not Surveyed
Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

TABLE 2
SUMMARY OF GROUNDWATER AND NAPL GAUGING RESULTS
642 Allens Avenue
Providence, Rhode Island

Site Area	Well ID	Surveyed Elevations			Well Installation Details					Range of LNAPL Observed (feet)	Range of DNAPL Observed (feet)	June 2021								November 2021							
		Top of Casing Elevation (Feet)	Top of PVC Elevation (Feet)	Grade Elevation (Feet)	Type of Well	Well Depth Modifier	Date of Installation	Measured Well Depth (feet bgs)	Screened Interval (feet bgs)			Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)	Depth to LNAPL (ft)	Depth to Water (ft)	Depth to DNAPL (ft)	Total Well Depth (ft)	GW Elevation (feet)	LNAPL Thickness (feet)	DNAPL Thickness (feet)	Corrected Groundwater Elevation (feet)
CNG	RCA-12R	17.87	17.33	17.87	Roadbox	Shallow	5/30/2014	15.24	5 - 15	NP	NP	-	10.7	-	14.45	6.63	NP	NP	6.63	-	9.23	-	14.48	8.10	NP	NP	8.1
CNG	GZ-301D	17.74	17.33	17.74	Roadbox	Deep	5/30/2014	30.11	20 - 30	NP	NP	-	9.76	-	29.37	7.57	NP	NP	7.57	-	9.44	-	29.37	7.89	NP	NP	7.89
CNG	GZ-302S	16.97	16.67	16.97	Roadbox	Shallow	6/3/2014	15.00	5 - 15	NP	NP	-	9.4	-	14.51	7.27	NP	NP	7.27	-	8.99	-	14.49	7.68	NP	NP	7.68
CNG	GZ-302D	16.97	16.59	16.97	Roadbox	Deep	5/30/2014	29.88	20 - 30	NP	NP	-	9.32	-	29.35	7.27	NP	NP	7.27	-	8.92	-	29.36	7.67	NP	NP	7.67
NG	RCA-1	12.21	11.82	12.21	Roadbox	Shallow	6/8/1994	15.89	6.5 - 16.5	NP	NP	-	5.29	-	14.25	6.53	NP	NP	6.53	-	5.03	-	14.65	6.79	NP	NP	6.79
NG	RCA-3	11.88	11.44	9.40	Standpipe	Shallow	9/9/1994	15.76	6 - 16	NP	trace	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-11	13.27	13.04	10.57	Standpipe	Shallow	9/12/1994	12.53	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-13	11.94	11.61	10.51	Standpipe	Shallow	9/12/1994	13.97	4 - 14	NP	NP	Decommissioned October 2015								Decommissioned October 2015							
NG	RCA-14	13.09	12.75	11.06	Standpipe	Shallow	9/12/1994	13.61	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	RCA-15	NS	14.06	NS	Standpipe	Shallow	12/8/1994	15.97	4 - 14	NP	NP	-	7.71	-	18	6.35	NP	NP	6.35	-	7.54	-	18.11	6.52	NP	NP	6.52
NG	RCA-17	NS	13.44	NS	Standpipe	Shallow	12/9/1994	12.80	4 - 14	NP	NP	-	7.26	-	14.78	6.18	NP	NP	6.18	-	7.12	-	14.76	6.32	NP	NP	6.32
NG	VHB-1	10.55	10.33	10.55	Roadbox	Shallow	1/15/2002	11.72	2 - 12	NP	NP	-	3.76	-	11.35	6.57	NP	NP	6.57	-	3.52	-	11.34	6.81	NP	NP	6.81
NG	VHB-3	11.84	11.96	9.76	Standpipe	Shallow	1/14/2002	7.90	2 - 10	trace	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-6	12.91	12.93	10.25	Standpipe	Shallow	1/14/2002	9.77	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-7	14.30	13.73	11.29	Standpipe	Shallow	1/14/2002	12.66	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-10	19.45	19.10	15.88	Standpipe	Shallow	1/15/2002	14.77	5 - 15	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-18	15.54	15.35	10.61	Standpipe	Shallow	1/21/2003	12.26	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-21	13.80	13.65	11.09	Standpipe	Shallow	1/28/2003	15.94	6 - 16	trace - 0.08	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-22	13.32	13.02	11.21	Standpipe	Shallow	1/28/2003	15.49	6 - 16	0.01 - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-23	12.98	12.80	11.37	Standpipe	Shallow	1/29/2003	16.37	6 - 16	trace - 0.05	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-1	12.94	12.94	11.06	Recovery Well	Shallow	2002	9.42	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES RW-2	14.27	14.27	11.09	Recovery Well	Shallow	2002	13.12	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	CHES-RWA	NS	NS	NS	Recovery Well	Shallow	2017	9.80	Unknown	0.30 - 0.89	NP	Decommissioned November 2018								Decommissioned November 2018							
NG	U-1	NS	9.67	7.71	Standpipe	Shallow	Unknown	9.08	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	VHB-8R	14.85	14.06	12.60	Standpipe	Shallow	6/4/2014	12.29	2 - 12	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-303S	13.78	13.28	13.78	Roadbox	Shallow	5/28/2014	15.70	5 - 15	NP	NP	-	6.34	-	14.94	6.94	NP	NP	6.94	-	5.92	-	14.66	7.36	NP	NP	7.36
NG	GZ-303D	13.75	13.13	13.75	Roadbox	Deep	6/3/2014	30.32	20 - 30	NP	NP	-	6.94	-	30.08	6.19	NP	NP	6.19	-	6.07	-	29.64	7.06	NP	NP	7.06
NG	GZ-304D	12.41	11.95	12.41	Roadbox	Deep	5/24/2014	30.16	20 - 30	NP	NP	-	5.75	-	29.6	6.2	NP	NP	6.2	-	5.11	-	29.62	6.84	NP	NP	6.84
NG	GZ-305S	11.84	11.64	11.84	Roadbox	Shallow	5/22/2014	14.35	5 - 15	NP	NP	-	5.72	-	14.16	5.92	NP	NP	5.92	-	5.35	-	14.16	6.29	NP	NP	6.29
NG	GZ-306S	11.90	11.49	11.90	Roadbox	Shallow	5/22/2014	15.31	5 - 15	NP	NP	-	5.6	-	14.74	5.89	NP	NP	5.89	-	5.24	-	14.76	6.25	NP	NP	6.25
NG	GZ-307S	10.70	10.18	10.70	Roadbox	Shallow	6/3/2014	14.67	3 - 13	trace - 0.36	NP	Trace	5.72	-	14.05	4.46	NP	NP	4.46	-	3.45	-	14.04	6.73	NP	NP	6.73
NG	GZ-308S	9.71	8.96	9.71	Roadbox	Shallow	6/4/2014	12.33	2 - 12	NP	NP	Unable to access well								Unable to access well							
NG	GZ-309D	10.51	9.83	10.51	Roadbox	Deep	5/20/2014	30.58	20 - 30	NP	NP	-	3.4	-	30.14	6.43	NP	NP	6.43	-	3.8	-	30.09	6.03	NP	NP	6.03
NG	GZ-311D	13.04	12.82	10.03	Standpipe	Deep	5/21/2014	29.91	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312S	10.77	10.58	8.64	Standpipe	Shallow	5/23/2014	13.18	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-312D	10.95	10.79	8.55	Standpipe	Deep	5/23/2014	30.51	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-313D	11.79	11.64	9.78	Standpipe	Deep	5/27/2014	36.34	26 - 36	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-318D	13.59	13.48	11.13	Standpipe	Deep	6/2/2014	34.15	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-320D	19.25	18.94	16.03	Standpipe	Deep	6/5/2014	30.19	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-401	15.16	14.92	12.01	Standpipe	Shallow	11/2/2015	16.25	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	GZ-403	14.52	14.29	11.45	Standpipe	Shallow	11/2/2015	14.65	3 - 13	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
NG	Unknown-2	10.90	10.87	11.10	Standpipe	Shallow	Unknown	10.95	Unknown	NP	NP	-	4.56	-	5.88	6.31	NP	NP	6.31	-	3.97	-	5.78	6.90	NP	NP	6.90
NG	GZ-503S	19.71	19.61	16.77	Standpipe	Shallow	9/15/2021	14.84	2 - 12	NP	NP									-	12.43	-	14.78	7.18	NP	NP	7.18
NG	GZ-502S	13.93	13.74	11.05	Standpipe	Shallow	9/14/2021	15.68	5 - 15	NP	NP									-	6.18	-	15.65	7.56	NP	NP	7.56
NG	GZ-501S	15.11	14.92	12.22	Standpipe	Shallow	9/14/2021	16.12	3 - 13	NP	NP									-	7	-	16.18	7.92	NP	NP	7.92
NG	GZ-500S	19.95	19.75	16.80	Standpipe	Shallow	9/14/2021	16.83	5 - 15	NP	NP									-	11.64	-	17.81	8.11	NP	NP	8.11
NG	GZ-500D	19.64	19.49	16.80	Standpipe	Deep	9/15/2021	33.06	20- 30	NP	NP									-	11.72	-	32.86	7.77	NP	NP	7.77
LNG	RCA-5	12.68	12.27	10.79	Standpipe	Shallow	9/7/1994	15.92	6 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-6	10.90	10.66	10.90	Roadbox	Shallow	9/8/1994	17.44	7 - 17	NP	NP	Inaccessible at the time of inspection								-	9.95		15.26	0.71	NP	NP	0.71
LNG	RCA-20	13.25	12.95	11.01	Standpipe	Shallow	10/18/1995	12.26	3.5 - 13.5	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-21	NS	13.72	10.48	Standpipe	Shallow	10/30/1995	11.39	4 - 14	0.91 - 3.58	NP	Well destroyed - replaced with RW-1								Well destroyed - replaced with RW-1							
LNG	RCA-22	NM	12.92	10.33	Standpipe	Shallow	Unknown	10.41	Unknown	NP	NP	-	9.43	-	13.03	3.49	NP	NP	3.49	-	9.24	-	12.93	3.68	NP	NP	3.68
LNG	RCA-28	NS	15.38	13.01	Standpipe	Shallow	1/17/1995	15.43	5 - 15	NP	NP	-	11.4	-	17.7	3.98	NP	NP	3.98	-	11.21	-	17.7	4.17	NP	NP	4.17
LNG	RCA-29	NS	13.45	NS	Standpipe	Shallow	2/13/1996	12.95	2 - 12	trace - 0.17	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-31	15.19	14.98	12.78	Standpipe	Shallow	2/23/1996	13.30	5-15	NP	NP	-	12.34	-	13.8	2.64	NP	NP	2.64	-	12.17	-	13.81	2.81	NP	NP	2.81
LNG	RCA-32	NS	12.16	NS	Standpipe	Shallow	2/3/1996	10.98	4 - 14	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-33	NS	9.67	NS	Standpipe	Shallow	2/23/1996	11.32	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-34	15.08	15.09	12.76	Standpipe	Shallow	2/29/1996	10.77	13 - 18	NP	NP	-	7.34	-	13	7.75	NP	NP	7.75	-	8.62	-	12.96	6.47	NP	NP	6.47
LNG	RCA-36	10.72	10.51	10.72	Roadbox	Shallow	3/1/1996	13.37	5 - 15	NP	NP	-	10.93	-	12.41	-0.42	NP	NP	-0.42	-	10.8	-	12.46	-0.29	NP	NP	-0.29
LNG	RCA-38	NS	9.36	NS	Standpipe	Shallow	5/2/1996	15.65	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RCA-39	14.07	13.86	11.43	Standpipe	Shallow	5/3/1996	12.32	3 - 13	NP	NP	Decommissioned Summer 2019								Decommissioned Summer 2019							
LNG	RCA-40	12.76	12.24	10.47	Standpipe	Shallow	5/3/1996	15.15	4 - 14	trace - 0.04	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	VHB-13	12.88	12.72	11.34	Roadbox	Shallow	1/16/2002	16.56	7 - 17	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	VHB-20	15.15	14.98	13.01	Standpipe	Shallow	1/22/2002	15.57	6 - 16	NP	NP	-	8.3	-	17.45	6.68	NP	NP	6.68	-	8.14	-	17.44	6.84	NP	NP	6.84
LNG	CHES RW-3	14.30	14.30	11.24	Recovery Well	Shallow	2002	14.84	Unknown	trace	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	CHES RW-4	13.08	13.08	9.09	Recovery Well	Shallow	2002	8.57	Unknown	trace - 0.03	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	CHES RW-5	14.32	14.32	11.16	Recovery Well	Shallow	2002	11.34	Unknown	0.01	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-1	NS	NS	NS	Recovery Well	Shallow	2002	6.70	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-2	NS	NS	NS	Recovery Well	Shallow	2002	9.32	Unknown	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	ESS RW-3	16.03	16.03	12.99	Recovery Well	Shallow	2002	13.94	Unknown	NP	NP	-	12.85	-	17	3.18	NP	NP	3.18	-	12.69	-	16.98	3.34	NP	NP	3.34
LNG	ESS RW-4	15.78	15.78	12.69	Recovery Well	Shallow	2002	12.06	Unknown	NP	NP	-	12.17	-	15	3.61	NP	NP	3.61	-	12.39	-	15.06	3.39	NP	NP	3.39
LNG	ESS RW-5	16.14	16.14	12.86	Recovery Well	Shallow	2002	13.85	Unknown	NP	NP	-	12.94	-	17.15	3.20	NP	NP	3.20	-	12.7	-	17.04	3.44	NP	NP	3.44
LNG	ESS RW-6	17.52	17.52	14.65	Recovery Well	Shallow	2002	14.33	Unknown	NP	NP	-	14.38	-	17.16	3.14	NP	NP	3.14	-	14.11	-	18.24	3.41	NP	NP	3.41
LNG	GZ-101	13.43	13.10	13.43	Roadbox	Shallow	4/29/2004	20.21	10 - 20	NP	NP	Inaccessible at the time of inspection								-	9.33	-	20.26	3.77	NP	NP	3.77
LNG	GZ-201	9.83	9.53	7.53	Standpipe	Shallow	4/8/2005	18.08	10 - 20	NP	NP	-	8.52	-	20.7	1.01	NP	NP	1.01	-	8.69	-	20.72	0.84	NP	NP	0.84
LNG	GZ-204A	13.86	12.83	11.30	Standpipe	Shallow	4/12/2005	15.92	4 - 16	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-216	12.85	11.61	10.34	Standpipe	Shallow	5/17/2005	16.45	5 - 15	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	RW-1	14.18	14.18	11.84	Recovery Well	Shallow	6/17/2014	11.66	8 - 13	trace - 0.02	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314S	14.35	14.19	11.13	Standpipe	Shallow	6/3/2014	18.88	4 - 19	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-314D	14.24	14.11	11.22	Standpipe	Deep	6/3/2014	34.11	24 - 34	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-315D	13.06	12.93	10.17	Standpipe	Deep	6/4/2014	30.29	20 - 30	NP	NP	Decommissioned June 2016								Decommissioned June 2016							
LNG	GZ-319D	15.50	14.90	13.19	Standpipe	Deep	6/2/2014	30.52	20 - 30	NP	NP	-	9.55	-	32.31	5.35	NP	NP	5.35	-	9.92	-	32.42	4.98	NP	NP	4.98

Notes

Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the CNG Fueling Station portion of the Property
Elevations are relative to NAVD88
NP - Indicates No Product observed.
NS - Not Surveyed
Blanks indicate no measurement collected on that particular day.
Potentiometric elevations for wells exhibiting LNAPL include 0.85 correction factor.
Note 1 - The readings reported from monitoring wells GZ-401 and GZ-403 in the October 2014 column were collected on November 3, 2015.

TABLE 3
HISTORICAL LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	November 2001	June 2002	September 2002	October 2002	October 2002	November 2002	December 2002	December 2002	January 2003	February 2003	February 2003	February 2003	September 2003	September 2005
Natural Gas Regulation Facility														
RCA-11	trace	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND
RCA-15	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND
VHB-1	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
VHB-2	NI	ND	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace
VHB-3	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
VHB-6	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND
VHB-7	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND
VHB-9	NI	trace	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND
VHB-10	NI	trace	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
VHB-18	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	ND
VHB-21	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	trace
VHB-22	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	0.03
VHB-23	NI	NI	NI	NG	NG	NG	NG	NG	NG	trace	NG	NG	trace	ND
CHES RW-1	NI	NI	NI	0.03	0.04	0.08	0.04	0.01	0.02	NG	0.01	ND	NG	0.1
CHES RW-2	NI	NI	NI	ND	ND	ND	ND	ND	ND	NG	ND	ND	NG	ND
CHESRW-A	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
GZ-307S	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
GZ-503S														
GZ-502S														
GZ-501S														
GZ-500S														
GZ-500D														
LNG Facility														
RCA-4	0.17	NG	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-5	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
RCA-6	trace	NG	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
RCA-21	NG	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
RCA-22	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	ND
RCA-28	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
RCA-29	0.33	NG	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	0.15	trace
RCA-36	ND	NG	trace	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
RCA-39	ND	NG	ND	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace
RCA-40	0.25	NG	0.01	NG	NG	NG	NG	NG	NG	NG	NG	NG	trace	trace
CHES RW-3	NI	NI	NI	ND	ND	ND	ND	ND	ND	NG	ND	ND	NG	ND
CHES RW-4	NI	NI	NI	0.03	0.02	0.09	0.08	0.05	0.03	NG	0.03	0.02	NG	2
CHES RW-5	NI	NI	NI	0.05	0.04	0.12	0.09	0.06	0.05	NG	0.02	0.02	NG	0.5
ESS RW-1	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND
ESS RW-2	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND
ESS RW-4	NI	NI	NI	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	0.5
RW-1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI

Notes:
Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the Former CNG Fueling Station portion of the Property
NG - Not Gauged
RCA-21 was destroyed in late June 2014 and replaced with RW-1
Please refer to Table 5 for monthly gauging and recovery data for GZ-307S
This table presents LNAPL thickness data for monitoring wells that have exhibited LNAPL thicknesses of at least trace amounts since 2001.

Gray shading indicates NAPL thickness of equal to or more than 0.01 feet
ND - Not Detected
NI - Not Installed Yet
Dest - Destroyed
trace - sheen or less than 0.01 feet
Decom - Decommissioned

TABLE 3
HISTORICAL LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	March 2006	June 2006	July 2006	October 2006	December 2006	March 2008	December 2009	June 2010	January 2011	July 2011	August 2011	February 2012	July 2012	February 2013
Natural Gas Regulation														
RCA-11	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
RCA-15	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
VHB-1	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
VHB-2	NG	NG	NG	NG	NG	NG	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-3	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	trace	ND	ND	ND
VHB-6	NG	NG	NG	NG	NG	ND	ND	NG	ND	ND	ND	ND	ND	ND
VHB-7	NG	NG	NG	NG	NG	trace	ND	ND	ND	ND	ND	ND	ND	ND
VHB-9	NG	NG	NG	NG	NG	ND	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-10	NG	NG	NG	NG	NG	trace	NG	ND	trace	trace	0.01	trace	0.02	ND
VHB-18	ND	ND	ND	ND	NG	ND	ND	ND	NG	ND	ND	ND	ND	ND
VHB-21	NG	NG	NG	NG	NG	trace	trace	ND	ND	ND	ND	ND	0.01	0.01
VHB-22	0.58	0.69	NG	0.33	0.46	0.4	NG	NG	NG	0.01	ND	trace	0.04	ND
VHB-23	0.05	ND	ND	ND	ND	0.01	NG	NG	NG	0.01	0.05	trace	ND	0.01
CHES RW-1	ND	ND	ND	0.02	ND	trace	NG	NG	NG	ND	ND	ND	ND	ND
CHES RW-2	NG	NG	NG	NG	NG	trace	NG	NG	NG	ND	ND	trace	ND	trace
CHESRW-A	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
GZ-307S	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
GZ-503S														
GZ-502S														
GZ-501S														
GZ-500S														
GZ-500D														
LNG Facility														
RCA-4	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-5	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
RCA-6	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
RCA-21	NG	NG	NG	NG	NG	NG	NG	NG	NG	3.58	2.94	2.79	1.65	1.44
RCA-22	NG	NG	NG	NG	NG	ND	NG	NG	ND	ND	ND	ND	ND	ND
RCA-28	NG	NG	NG	NG	NG	trace	NG	NG	ND	ND	ND	ND	ND	ND
RCA-29	ND	0.36	0.15	0.11	0.15	0.3	NG	NG	NG	0.08	trace	trace	0.11	trace
RCA-36	NG	NG	NG	NG	NG	ND	NG	NG	NG	ND	ND	ND	ND	ND
RCA-39	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
RCA-40	0.1	0.21	0.18	0.22	0.01	0.01	NG	NG	NG	ND	ND	trace	trace	trace
CHES RW-3	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
CHES RW-4	ND	0.18	0.13	0.1	0.08	0.09	NG	NG	NG	0.02	0.03	0.01	trace	trace
CHES RW-5	0.1	ND	ND	0.01	ND	trace	NG	NG	NG	ND	ND	ND	ND	ND
ESS RW-1	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
ESS RW-2	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
ESS RW-4	NG	NG	NG	NG	NG	NG	NG	NG	NG	ND	ND	ND	ND	ND
RW-1	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI

Notes:
Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the Former CNG Fueling Station portion of the Property
NG - Not Gauged
RCA-21 was destroyed in late June 2014 and replaced with RW-1
Please refer to Table 5 for monthly gauging and recovery data for GZ-307S
This table presents LNAPL thickness data for monitoring wells that have exhibited LNAPL thicknesses of at least trace amounts sinc

TABLE 3
HISTORICAL LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	November 2013	June 2014	July 2, 2014	July 23, 2014	October 2014	April 2015	October 2015	May 2016	October 2016	May 2017	March 2018	November 2018	June 2019	November 2019
Natural Gas Regulation														
RCA-11	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
RCA-15	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VHB-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VHB-2	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-3	ND	ND	ND	ND	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
VHB-6	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
VHB-7	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
VHB-9	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
VHB-10	0.01	trace	trace	ND	ND	ND	trace	ND	Decom	Decom	Decom	Decom	Decom	Decom
VHB-18	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
VHB-21	trace	ND	trace	0.08	ND	0.01	trace	0.01	Decom	Decom	Decom	Decom	Decom	Decom
VHB-22	0.01	trace	NG	NG	0.04	0.01	0..03	ND	Decom	Decom	Decom	Decom	Decom	Decom
VHB-23	ND	0.03	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-1	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-2	ND	ND	NG	NG	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
CHESRW-A	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.89	0.3	Decom	Decom
GZ-307S	NI	ND	ND	ND	ND	ND	ND	0.08	0.05	0.02	0.36	trace	trace	trace
GZ-503S														
GZ-502S														
GZ-501S														
GZ-500S														
GZ-500D														
LNG Facility														
RCA-4	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-5	ND	ND	ND	ND	ND	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
RCA-6	ND	NG	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RCA-21	1.91	0.91	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest	Dest
RCA-22	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RCA-28	ND	ND	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RCA-29	ND	0.17	NG	NG	0.08	0.02	0.10	0.01	Decom	Decom	Decom	Decom	Decom	Decom
RCA-36	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	Damaged	ND
RCA-39	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	Decom
RCA-40	ND	ND	NG	NG	ND	0.04	trace	0.02	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-3	ND	ND	NG	NG	ND	trace	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-4	0.01	ND	NG	trace	trace	trace	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
CHES RW-5	ND	ND	NG	ND	ND	0.01	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
ESS RW-1	ND	ND	NG	NG	ND	ND	ND	trace	Decom	Decom	Decom	Decom	Decom	Decom
ESS RW-2	ND	ND	NG	NG	trace	ND	ND	ND	Decom	Decom	Decom	Decom	Decom	Decom
ESS RW-4	ND	ND	NG	NG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RW-1	NI	NI	0.02	trace	0.01	trace	trace	trace	Decom	Decom	Decom	Decom	Decom	Decom

Gray shading indicates NAPL thickness of equal to or more than 0.01 feet
ND - Not Detected
NI - Not Installed Yet
Dest - Destroyed
trace - sheen or less than 0.01 feet
Decom - Decommissioned
ɜ 2001.

TABLE 3
HISTORICAL LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	June 2020	November 2020	June 2021	November 2021
Natural Gas Regulation				
RCA-11	Decom	Decom	Decom	Decom
RCA-15	ND	ND	ND	ND
VHB-1	ND	ND	ND	ND
VHB-2	Dest	Dest	Dest	Dest
VHB-3	Decom	Decom	Decom	Decom
VHB-6	Decom	Decom	Decom	Decom
VHB-7	Decom	Decom	Decom	Decom
VHB-9	Dest	Dest	Dest	Dest
VHB-10	Decom	Decom	Decom	Decom
VHB-18	Decom	Decom	Decom	Decom
VHB-21	Decom	Decom	Decom	Decom
VHB-22	Decom	Decom	Decom	Decom
VHB-23	Decom	Decom	Decom	Decom
CHES RW-1	Decom	Decom	Decom	Decom
CHES RW-2	Decom	Decom	Decom	Decom
CHESRW-A	Decom	Decom	Decom	Decom
GZ-307S	trace	ND	Trace	ND
GZ-503S				ND
GZ-502S				ND
GZ-501S				ND
GZ-500S				ND
GZ-500D				ND
LNG Facility				
RCA-4	Dest	Dest	Dest	Dest
RCA-5	Decom	Decom	Decom	Decom
RCA-6	ND	ND	Inaccessible	ND
RCA-21	Dest	Dest	Dest	Dest
RCA-22	ND	ND	ND	ND
RCA-28	ND	ND	ND	ND
RCA-29	Decom	Decom	Decom	Decom
RCA-36	ND	ND	ND	ND
RCA-39	Decom	Decom	Decom	Decom
RCA-40	Decom	Decom	Decom	Decom
CHES RW-3	Decom	Decom	Decom	Decom
CHES RW-4	Decom	Decom	Decom	Decom
CHES RW-5	Decom	Decom	Decom	Decom
ESS RW-1	Decom	Decom	Decom	Decom
ESS RW-2	Decom	Decom	Decom	Decom
ESS RW-4	ND	ND	ND	ND
RW-1	Decom	Decom	Decom	Decom

TABLE 4
HISTORICAL DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	November 2001	September 2002	September 2003	September 2005	March 2008	December 2009	June 2010	January 2011	July 2011	August 2011	February 2012	July 2012	February 2013	November 2013	June 2014
RCA-3	0.17	trace	trace	trace	ND	ND	ND	trace	trace	trace	trace	trace	trace	trace	trace

Notes:
Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the Former CNG Fueling Station portion of the Property
NG - Not Gauged
This table presents DNAPL thickness data for monitoring wells that have exhibited DNAPL thicknesses of at least trace amounts sin

Gray shading indicates NAPL thickness of equal to or more than 0.01 feet
ND - Not Detected
NI - Not Installed Yet
Dest - Destroyed
trace - sheen or less than 0.01 feet
Decom - Decommissioned

TABLE 4
HISTORICAL DENSE NON-AQUEOUS PHASE LIQUID (DNAPL) WELL GAUGING DATA
642 Allens Avenue
Providence, Rhode Island

Date	July 2, 2014	July 23, 2014	October 2014	April 2015	October 2015	May 2016	October 2016	May 2017	March 2018	November 2018	June 2019	November 2019	November 2020	November 2021
RCA-3	trace	trace	trace	trace	trace	trace	Decom	Decom	Decom	Decom	Decom	Decom	Decom	Decom

Notes:

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the CNG Fueling Station portion of the Property

NG - Not Gauged

This table presents DNAPL thickness data for monitoring wells that have exhibited DNAPL thicknesses of at least trace amounts sin

Gray shading indicates NAPL thickness of equal to or more than 0.01 feet

ND - Not Detected

NI - Not Installed Yet

Dest - Destroyed

trace - sheen or less than 0.01 feet

Decom - Decommissioned

File No. 03.00033554.01
9/9/2022

TABLE 5
LNAPL GAUGING AND RECOVERY - GZ-307S
642 Allens Avenue
Providence, Rhode Island

Date	Depth to LNAPL (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Estimated Volume Purged (gallons)
6/3/2014	ND	4.84	ND	NR
6/6/2014	ND	4.82	ND	NR
6/16/2014	ND	4.73	ND	NR
7/2/2014	ND	4.86	ND	NR
7/23/2014	ND	4.85	ND	NR
10/30/2014	ND	5.09	ND	NR
4/9/2015	ND	3.84	ND	NR
10/14/2015	ND	5.24	ND	NR
5/18/2016	4.47	4.55	0.08	NR
7/26/2016	5.10	5.36	0.26	NR
8/30/2016	3.95	4.00	0.05	NR
9/16/2016	5.26	5.59	0.33	NR
10/28/2016	5.05	5.10	0.05	NR
11/30/2016	4.80	4.84	0.04	NR
12/13/2016	4.95	5.04	0.09	NR
5/30/2017	3.67	3.69	0.02	NR
1/24/2018	3.28	3.50	0.22	NR
2/21/2018	3.23	3.52	0.29	NR
3/20/2018	3.23	3.59	0.36	NR
4/26/2018	5.98	6.98	1.00	NR
5/15/2018	3.97	4.47	0.50	trace
6/28/2018	4.80	4.88	0.08	NR
8/30/2018	4.07	4.54	0.47	NR
9/5/2018	4.67	4.75	0.08	1
10/1/2018	3.19	3.20	0.01	NR
10/30/2018	3.54	3.55	0.01	NR
11/14/2018	2.55	2.55	trace	NR
12/19/2018	3.64	3.64	trace	NR
1/30/2019	3.04	3.04	trace	NR
2/27/2019	3.12	3.15	0.03	NR
3/20/2019	3.14	3.14	trace	NR
4/22/2019	3.70	3.70	trace	NR
5/31/2019	3.75	3.75	trace	NR
6/26/2019	3.72	3.72	trace	NR
7/25/2019	3.70	3.70	trace	NR
8/22/2019	4.34	4.34	trace	NR
9/27/2019	5.57	5.70	0.13	NR
10/21/2019	4.28	4.28	trace	NR
11/21/2019	4.10	4.17	0.07	NR
12/18/2019	2.59	2.68	0.09	NR
1/24/2020	3.95	3.99	0.04	NR
2/24/2020	3.90	3.90	trace	NR
3/26/2020	3.38	3.38	trace	NR
4/23/2020	3.08	3.08	trace	NR
5/22/2020	3.60	3.60	trace	NR
6/9/2020	4.09	4.09	trace	NR
7/17/2020	3.47	3.47	trace	NR
8/20/2020	4.82	4.83	0.01	NR
9/22/2020	4.90	4.90	trace	NR
10/26/2020	4.50	4.50	trace	NR
11/23/2020	ND	4.14	ND	NR
12/11/2020	3.12	3.12	trace	NR
1/22/2021	ND	3.45	trace	NR
2/9/2021	ND	3.85	trace	NR
3/15/2021	ND	4.10	trace	NR
4/20/2021	ND	3.70	trace	NR
5/21/2021	ND	4.00	trace	NR
6/23/2021	ND	3.97	trace	NR
7/26/2021	ND	3.43	trace	NR
8/13/2021	3.80	3.80	trace	NR
9/27/2021	4.10	4.13	0.03	NR
10/18/2021	ND	4.16	trace	NR
11/16/2021	ND	3.45	ND	NR
12/18/2021	4.33	4.33	trace	NR

Notes: ND = Not Detected
NR = Not Recovered
trace = <0.01 feet product

TABLE 6
SUMMARY OF GROUNDWATER VOC ANALYTICAL RESULTS - 2021
642 Allens Avenue
Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 21K0904-03 11/18/2021	RCA-12R 21K0904-01 11/18/2021	RCA-15 21K0904-07 11/18/2021	RCA-22 21K0832-07 11/17/2021	RCA-31 21K0832-04 11/17/2021	RCA-36 21K0832-03 11/17/2021	VHB-1 21K0904-06 11/18/2021	VHB-20 21K0832-06 11/17/2021	GZ-201 21K0832-02 11/17/2021	GZA-301D 21K0904-02 11/18/2021	GZ-304D 21K0904-04 11/18/2021	GZ-309D 21K0904-05 11/18/2021	GZ-319D 21K0832-05 11/17/2021	GZ-500D 21K0755-01 11/16/20211	GZ-500S 21K0755-02 11/16/2021	GZ-501S 21K0755-03 11/16/2021	GZ-502S 21K0755-04 11/16/2021
EPA Method 8260B VOLATILE ORGANICS																				
1,1,1,2-Tetrachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	3.1	68	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	NE	NE	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	mg/L	0.007	23	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	**0.0033**	<0.001	**0.0034**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0092**	**0.0008**	**0.0003**	<0.001
1,2-Dibromo-3-Chloropropane	mg/L	0.002	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.11	670	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	mg/L	3	140	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.003**	**0.0001**	<0.001	<0.001
1,3-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dioxane - Screen	mg/L	NE	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Butanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2-Hexanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Notes
Well is located in the Natural Gas Regulator portion of the Property
Well is located at the LNG Facility
Well is located in the Former CNG Fueling Station portion of the Property
NE = Not Established
Blue shaded cells indicate that the detection limit exceeds the RIDEM GB Groundwater Objective.
Bold text indicates that the concentration was above the detection limit.
Yellow shaded cells and bolded text indicate the concentration exceeds the GB Groundwater Objective.
Underlined concentrations exceed the RIDEM GB Groundwater Upper Concentration Limit
Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulations.

TABLE 6
SUMMARY OF GROUNDWATER VOC ANALYTICAL RESULTS - 2021
642 Allens Avenue
Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	RCA-1 21K0904-03 11/18/2021	RCA-12R 21K0904-01 11/18/2021	RCA-15 21K0904-07 11/18/2021	RCA-22 21K0832-07 11/17/2021	RCA-31 21K0832-04 11/17/2021	RCA-36 21K0832-03 11/17/2021	VHB-1 21K0904-06 11/18/2021	VHB-20 21K0832-06 11/17/2021	GZ-201 21K0832-02 11/17/2021	GZA-301D 21K0904-02 11/18/2021	GZ-304D 21K0904-04 11/18/2021	GZ-309D 21K0904-05 11/18/2021	GZ-319D 21K0832-05 11/17/2021	GZ-500D 21K0755-01 11/16/20211	GZ-500S 21K0755-02 11/16/2021	GZ-501S 21K0755-03 11/16/2021	GZ-502S 21K0755-04 11/16/2021
EPA Method 8260B VOLATILE ORGANICS																				
4-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0009**	<0.001	<0.001	<0.001
4-Methyl-2-Pentanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acetone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene	mg/L	0.14	18	<0.001	<0.001	<0.001	**0.821**	<0.001	**0.0904**	<0.001	**0.0026**	<0.001	<0.001	**0.0013**	<0.001	**0.0114**	**0.007**	**0.0036**	**0.0074**	**0.0001**
Bromobenzene	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Bromochloromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	NE	NE	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Bromoform	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bromomethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0003**	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.07	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	3.2	56	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloromethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethene	mg/L	2.4	69	**0.0013**	**0.0074**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0016**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Dibromochloromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dibromomethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Diethyl Ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Di-isopropyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethyl tertiary-butyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	1.6	16	<0.001	<0.001	<0.001	**0.0085**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0027**	**0.0008**	**0.0005**	<0.001

Notes

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NE = Not Established

Blue shaded cells indicate that the detection limit exceeds the RIDEM GB Groundwater Objective.

Bold text indicates that the concentration was above the detection limit.

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EPA Method 8260B VOLATILE ORGANICS																				
Hexachlorobutadiene	mg/L	NE	NE	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Hexachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	**0.0298**	<0.001	**0.0024**	**0.0087**	<0.001	**0.0049**	<0.001	<0.001	<0.001	**0.0013**	**0.0023**	**0.0034**	**0.0034**	<0.001
Methyl tert-Butyl Ether	mg/L	5	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Naphthalene	mg/L	2.67	NE	<0.001	<0.001	<0.001	**0.0123**	<0.001	**0.0018**	<0.001	<0.001	**0.0016**	<0.001	**0.0062**	<0.001	<0.001	**0.0785**	**0.0129**	**0.0024**	**0.0004**
n-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	**0.0014**	<0.001	<0.001	<0.001	<0.001	**0.0019**	<0.001	<0.001	<0.001	<0.001	**0.0006**	**0.0006**	**0.0005**	<0.001
n-Propylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	**0.0078**	<0.001	**0.0014**	<0.001	<0.001	**0.0024**	<0.001	<0.001	<0.001	<0.001	**0.0008**	**0.001**	**0.0005**	<0.001
sec-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	**0.0014**	<0.001	<0.001	**0.0021**	<0.001	**0.0029**	<0.001	<0.001	<0.001	<0.001	**0.0002**	**0.0006**	**0.0003**	<0.001
Styrene	mg/L	2.2	50	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0011**	**0.0002**	<0.001	<0.001	<0.001
tert-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tertiary-amyl methyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.15	NE	<0.001	**0.0018**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrahydrofuran	mg/L	NE	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	mg/L	1.7	21	<0.001	<0.001	<0.001	**0.0012**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0007**	**0.0002**	**0.0004**	**0.0001**
trans-1,2-Dichloroethene	mg/L	2.8	79	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Trichloroethene	mg/L	0.54	87	<0.001	**0.0078**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0004	<0.001	<0.001	**0.0005**
Trichlorofluoromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vinyl Acetate	mg/L	NE	NE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	mg/L	0.002	NE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylene O	mg/L	NE	NE	<0.001	<0.001	<0.001	**0.0119**	<0.001	**0.0015**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0036**	**0.0011**	**0.0018**	<0.001
Xylene P,M	mg/L	NE	NE	<0.002	<0.002	<0.002	**0.0023**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0024**	<0.002	**0.0005**	<0.002
Xylenes (Total)	mg/L	NE	NE	<0.002	<0.002	<0.002	**0.0142**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.00605**	<0.002	**0.00231**	<0.002

Notes

Well is located in the Natural Gas Regulator portion of the Property

Well is located at the LNG Facility

Well is located in the Former CNG Fueling Station portion of the Property

NE = Not Established

Blue shaded cells indicate that the detection limit exceeds the RIDEM GB Groundwater Objective.

Bold text indicates that the concentration was above the detection limit.

Yellow shaded cells and bolded text indicate the concentration exceeds the GB Groundwater Objective.

Underlined concentrations exceed the RIDEM GB Groundwater Upper Concentration Limit

Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulations.

TABLE 7
SUMMARY OF GROUNDWATER QAQC VOC ANALYTICAL RESULTS
642 Allens Avenue
Providence, Rhode Island

	Units	RIDEM GB Groundwater Objective	RIDEM GB Groundwater UCL	GZA-301D 21K0904-02 11/18/2021	BD-111721 21K0832-01 11/17/2021	Trip Blank 21K0832-08 11/17/2021	Trip Blank #2 21K0904-08 11/18/2021
EPA Method 8260B VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,1,1-Trichloroethane	mg/L	3.1	68	<0.001	<0.001	<0.001	<0.001
1,1,2,2-Tetrachloroethane	mg/L	NE	NE	<0.0005	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,1-Dichloroethene	mg/L	0.007	23	<0.001	<0.001	<0.001	<0.001
1,1-Dichloropropene	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
1,2,3-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,2,3-Trichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,2,4-Trichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,2,4-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,2-Dibromo-3-Chloropropane	mg/L	0.002	NE	<0.005	<0.005	<0.005	<0.005
1,2-Dibromoethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,2-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,2-Dichloroethane	mg/L	0.11	670	<0.001	<0.001	<0.001	<0.001
1,2-Dichloropropane	mg/L	3	140	<0.001	<0.001	<0.001	<0.001
1,3,5-Trimethylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,3-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,3-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
1,4-Dioxane - Screen	mg/L	NE	NE	<0.5	<0.5	<0.5	<0.5
1-Chlorohexane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
2,2-Dichloropropane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
2-Butanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01
2-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
2-Hexanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01
4-Chlorotoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
4-Isopropyltoluene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
4-Methyl-2-Pentanone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01
Acetone	mg/L	NE	NE	<0.01	<0.01	<0.01	<0.01
Benzene	mg/L	0.14	18	<0.001	**0.0025**	<0.001	<0.001
Bromobenzene	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
Bromochloromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Bromodichloromethane	mg/L	NE	NE	<0.0006	<0.0006	<0.0006	<0.0006
Bromoform	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Bromomethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	mg/L	0.07	NE	<0.001	<0.001	<0.001	<0.001
Chlorobenzene	mg/L	3.2	56	<0.001	<0.001	<0.001	<0.001
Chloroethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
Chloroform	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Chloromethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
cis-1,2-Dichloroethene	mg/L	2.4	69	<0.001	<0.001	<0.001	<0.001
cis-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004
Dibromochloromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Dibromomethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Dichlorodifluoromethane	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
Diethyl Ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Di-isopropyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Ethyl tertiary-butyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	1.6	16	<0.001	<0.001	<0.001	<0.001
Hexachlorobutadiene	mg/L	NE	NE	<0.0006	<0.0006	<0.0006	<0.0006
Hexachloroethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Isopropylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Methyl tert-Butyl Ether	mg/L	5	NE	<0.001	<0.001	<0.001	<0.001
Methylene Chloride	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
Naphthalene	mg/L	2.67	NE	<0.001	<0.001	<0.001	<0.001
n-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
n-Propylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
sec-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Styrene	mg/L	2.2	50	<0.001	<0.001	<0.001	<0.001
tert-Butylbenzene	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Tertiary-amyl methyl ether	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	mg/L	0.15	NE	<0.001	<0.001	<0.001	<0.001
Tetrahydrofuran	mg/L	NE	NE	<0.005	<0.005	<0.005	<0.005
Toluene	mg/L	1.7	21	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	mg/L	2.8	79	<0.001	<0.001	<0.001	<0.001
trans-1,3-Dichloropropene	mg/L	NE	NE	<0.0004	<0.0004	<0.0004	<0.0004
Trichloroethene	mg/L	0.54	87	<0.001	<0.001	<0.001	<0.001
Trichlorofluoromethane	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Vinyl Acetate	mg/L	NE	NE	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	mg/L	0.002	NE	<0.001	<0.001	<0.001	<0.001
Xylene O	mg/L	NE	NE	<0.001	<0.001	<0.001	<0.001
Xylene P,M	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002
Xylenes (Total)	mg/L	NE	NE	<0.002	<0.002	<0.002	<0.002

Notes
NE = Not Established
Blue shaded cells indicate that the detection limit exceeds the RIDEM GB Groundwater Objective.
Bold text indicates that the concentration was above the detection limit.
Yellow shaded cells and bolded text indicate the concentration exceeds the GB Groundwater Objective.
Underlined concentrations exceed the RIDEM GB Groundwater Upper Concentration Limit
Method 2 GB Objective criteria for naphthalene developed by GZA in accordance with the methods described in the Remediation Regulations.
BD-111721 is a blind duplicate of VHB-20

FIGURES

NATIONAL GRID
MONITORING REPORT - 2021
FORMER MANUFACTURED GAS PLANT (MGP)
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

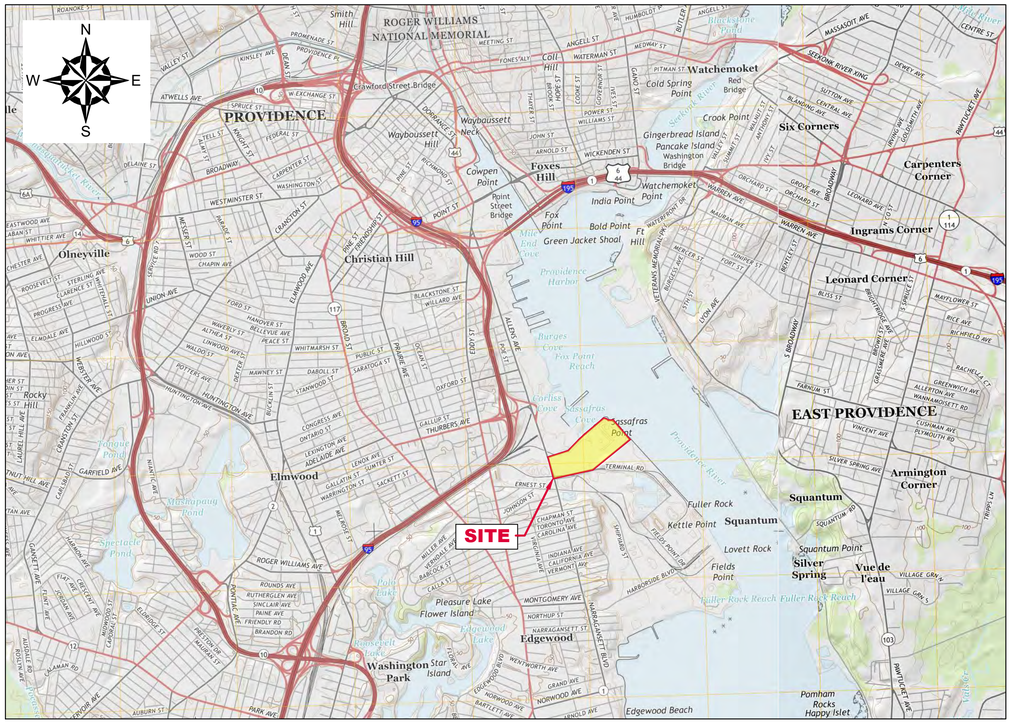
SEPTEMBER 2022

PREPARED FOR:

Rhode Island Energy™
a PPL company

PREPARED BY:

GZA GEOENVIRONMENTAL, INC.
188 VALLEY STREET, SUITE 300
PROVIDENCE, RHODE ISLAND 02909



LOCUS MAP

SOURCE: USGSSTORE.GOV

0 1000' 2000' 4000' 6000'

SCALE: 1 INCH = 2000 FEET

INDEX OF DRAWINGS	
SHEET #	TITLE
C1	TITLE SHEET AND INDEX TO DRAWINGS
N1	GENERAL NOTES AND LEGEND
2	OVERALL AERIAL
3A	EXPLORATION LOCATION PLAN - FORMER CNG FACILITY AND NATURAL GAS REGULATION FACILITY
3B	EXPLORATION LOCATION PLAN - LNG FACILITY AND HOLCIM CEMENT FACILITY
4	GROUNDWATER MONITORING WELLS
5	SHALLOW GROUNDWATER CONTOURS (NOVEMBER 2020)
6	HISTORICAL NAPL THICKNESS (≥0.01 FEET) (2001-2020)
7	2020 NAPL AND GROUNDWATER ANALYTICAL DATA

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LEGEND:

- PROPERTY LINE
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE
- LIGHT POLE
- CATCH BASIN FRAME AND GRATE
- STEEL POST
- PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- SITE AREA BOUNDARY
- PAVEMENT
- CONCRETE
- HISTORICAL STRUCTURE OR FEATURE
- 200 FOOT CRMC BUFER

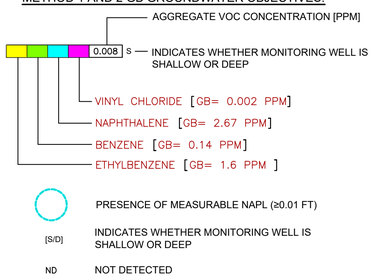
EXPLORATION LEGEND:

- GZ-314 S/D — ENVIRONMENTAL BORING OBSERVED BY GZA IN 2014
- VHB-7 — ENVIRONMENTAL BORING OBSERVED BY VHB IN 2002 AND 2003
- F47 — ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999 AND 2000
- 1 — ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999
- RHB-1 — ENVIRONMENTAL BORING OBSERVED BY ESS IN 1998
- RCA-40 — ENVIRONMENTAL BORING OBSERVED BY RCA BETWEEN 1994-1996
- TP-301 — ENVIRONMENTAL TEST PITS OBSERVED BY GZA IN 2014
- VHB TP-101 — ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2008
- TP-1 — ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2002
- ETP-4 — ENVIRONMENTAL TEST PITS OBSERVED BY RCA IN 1995 AND 1996
- SS-301 — SURFACE SOIL SAMPLE COLLECTED BY GZA IN 2014
- VHB-SS2 — SURFACE SOIL SAMPLE COLLECTED BY VHB IN 2003
- SU-6 No.9 — SURFACE SOIL SAMPLE COLLECTED BY RCA IN 1994 AND 1995
- RSS-1 — SEDIMENT SAMPLE COLLECTED BY RCA IN 1994 AND 1995
- CHES-RW-A — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2017
- RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
- CHES-RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
- ESS-RW-1 — RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000
- PRV-1 — GEOTECHNICAL BORING PERFORMED BY GEOLOGIC, INC. IN 2019
- B-201 — GEOTECHNICAL BORING PERFORMED BY GOLDER ASSOCIATES IN 2016
- GZ-3 — GEOTECHNICAL BORING BY GZA IN 2016
- PP-1 — GEOTECHNICAL BORING PERFORMED BY PROCESS PIPELINE SERVICES IN 2015
- GZ-401 — GEOTECHNICAL BORING OBSERVED BY GZA IN 2015
- SB-01 — GEOTECHNICAL BORING OBSERVED BY WEIDLINGER ASSOCIATES, INC. (WAI) IN 2015
- GZA-206 — GEOTECHNICAL BORING OBSERVED BY GZA IN 2005
- GZ-1 — GEOTECHNICAL BORING OBSERVED BY GZA IN 2004
- SWBL13 — GEOTECHNICAL BORING OBSERVED BY SWEC IN 1995
- B-207 — GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1973
- B-25 — GEOTECHNICAL BORING OBSERVED BY HALEY & ALDRICH IN 1971 AND 1972
- PGC-8 — GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1912
- ENVIRONMENTAL TEST PIT OBSERVED BY ESS IN 1999 AND 2000

MONITORING WELL LEGEND:

- GZ-500 S/D — MONITORING WELL INSTALLED BY GZA IN 2021
- GZ-401 — MONITORING WELL INSTALLED BY GZA IN 2015
- GZ-314 S/D — MONITORING WELL INSTALLED BY GZA IN 2014
- GZA-206 — MONITORING WELL INSTALLED BY GZA IN 2005
- VHB-7 — MONITORING WELL INSTALLED BY VHB IN 2002 AND 2003
- F47 — TEMPORARY WELL POINT INSTALLED BY ESS IN 1999 AND 2000
- 1 — TEMPORARY WELL POINT INSTALLED BY ESS IN 1999
- RCA-40 — MONITORING WELL INSTALLED BY RCA IN 1996
- CHES-RW-A — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2017
- RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
- CHES-RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
- ESS-RW-1 — RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000
- ACTIVE MONITORING WELLS
- DECOMMISSIONED OR DESTROYED MONITORING WELLS
- 2016 DECOMMISSIONED MONITORING WELLS
- TEMPORARY MONITORING WELL-ASSUMED DESTROYED
- RECOVERY WELLS
- DETECTED LNAPL THICKNESS (≥0.01 FEET)
- DETECTED DNAPL THICKNESS (≥0.01 FEET)
- MONITORING WELL SAMPLED IN 2021
- 5 — SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON NOVEMBER 23, 2020.
- 4 — INFERRED SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON NOVEMBER 23, 2020.
- 2.93S / 2.56D — GROUNDWATER ELEVATION OBSERVED ON NOVEMBER 23, 2020 (IN FEET RELATIVE TO NAVD 1988)
- S — INDICATES THE MONITORING WELL SCREEN IS SHALLOW (GENERALLY AT THE NATURAL WATER TABLE)
- D — INDICATES THE MONITORING WELL SCREEN IS DEEP (GENERALLY DEEPER THAN THE NATURAL WATER TABLE)

EXCEEDANCES OF THE RIDEM
METHOD 1 AND 2 GB GROUNDWATER OBJECTIVES:



GENERAL NOTES:

1) EXISTING CONDITIONS BASE MAP DEVELOPED FROM THE FOLLOWING:
   - ELECTRONIC CAD FILE "ACAD-7257PL.DWG" PROVIDED BY VANASSE HANGEN BRUSTLIN (VHB) ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3 AND AERIAL MAPPING BY WSP TRANSPORTATION AND INFRASTRUCTURE DATED JANUARY 15, 2014 PREPARED FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS AND CAD FILE NO. 09303023.052-1.DWG.
   - ELECTRONIC CAD FILE "3654 642 ALLENS AVE ASBUILT.DWG", PREPARED BY A-PLUS CONSTRUCTION SERVICES CORPORATION FOR CHARTER ENVIRONMENTAL, TITLED "AS-BUILT PLAN," SHEET 1 TITLED "SUB GRADE" AND SHEET 2 TITLED "FINISH GRADE," DATED DECEMBER 16, 2016 AND PROVIDED TO GZA ON MARCH 23, 2017.
   - ELECTRONIC CAD FILE 2797-001-DATA-V18-20191204 TITLED "TOPOGRAPHIC SURVEY," PROJECT TITLE "642 ALLENS AVENUE, ANCILLARY BUILDING DEMOLITION PROJECT," PREPARED BY DIPRETE ENGINEERING FOR COSTELLO DISMANTLING COMPANY, INC., ORIGINAL SCALE 1" = 20', SHEET 1 OF 1, DATED DECEMBER 4, 2019 AND PROVIDED TO GZA.
   - ELECTRONIC CAD FILE "19-NG-20_TERMINAL-RD PROVIDENCE.DWG," PREPARED BY TAUPER LAND SURVEY, INC. ON DECEMBER 30, 2019 FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS.
   - ON-SITE INVESTIGATIONS AND SURVEYS BY GZA PERSONNEL DURING VARIOUS SITE VISITS BETWEEN 2011 AND 2021.
2) PROPERTY LINES AND LOT INFORMATION ESTABLISHED FROM INFORMATION PROVIDED ON A DRAWING ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3.
3) EXPLORATION LOCATION PLANS WERE DEVELOPED FROM THE FOLLOWING:
   - SITE PLANS PROVIDED BY RESOURCE CONTROLS ASSOCIATES (RCA) IN THE RIDEM-SUBMITTED JULY 5, 1994 "SITE CHARACTERIZATION PLAN" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY RCA IN THE RIDEM-SUBMITTED JUNE 28, 1996 "PHASE IB FIELD CHARACTERIZATION INVESTIGATION" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY ENVIRONMENTAL SCIENCE SERVICES, INC. (ESS) IN THE RIDEM-SUBMITTED DECEMBER 4, 1998 "REMEDIAL ACTION WORK PLAN (RAWP)" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY ESS IN THE RIDEM-SUBMITTED OCTOBER 21, 1999 "SUBSURFACE INVESTIGATION AND PROPOSED ALGONQUIN GENERATOR CONSTRUCTION AREA" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY VHB IN THE RIDEM-SUBMITTED NOVEMBER 2002 "REMEDIAL ACTION CLOSURE REPORT" PREPARED ON BEHALF OF THE NEW ENGLAND GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY VHB IN THE RIDEM-SUBMITTED APRIL 2003 "SITE INVESTIGATION REPORT" PREPARED ON BEHALF OF THE NEW ENGLAND GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - SITE PLANS PROVIDED BY VHB IN THE RIDEM-SUBMITTED JANUARY 26, 2009 "OXIDE BOX INVESTIGATION TECHNICAL MEMORANDUM" PREPARED ON BEHALF OF NATIONAL GRID. PLANS PROVIDED BY NATIONAL GRID.
   - FIGURE 3 "EXPLORATION LOCATION PLAN" PREPARED BY GZA GEOENVIRONMENTAL, INC. (GZA) ON BEHALF OF CHICAGO BRIDGE AND IRON (CB&I) IN JULY 2005. PLANS PROVIDED BY NATIONAL GRID.
   - FIGURE 35 "TEST BORINGS UNDER SASSAFRAS POINT PLAT" DATED JUNE 5, 1912 PREPARED BY THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - DRAWING 3 "WHARF FACILITIES - BULKHEAD REBUILDING - CROSS SECTIONS" DATED JANUARY 11, 1973 PREPARED BY PARSONS, BRINCKERHOFF, QUADE AND DOUGLAS ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - FIGURE 2 "EXPLORATION LOCATION PLAN," DATED SEPTEMBER 18, 2015, BY WEIDLINGER ASSOCIATES, INC. (WEI) ON BEHALF OF KIEWIT CORPORATION (KIEWIT). PLAN PROVIDED BY NATIONAL GRID.
   - DRAWING 5153_C00_(SENT OUT 05-03-16).DWG BY PROCESS PIPELINE SERVICES OF WALPOLE MASSACHUSETTS TITLED "SITE PLAN" SHEET A02, DATED APRIL 27, 2016 AND PROVIDED BY NATIONAL GRID ON MAY 6, 2016.
   - FIGURE 2 "EXPLORATION LOCATION PLAN," DATED MARCH 22, 2016, BY GOLDER ASSOCIATES ON BEHALF OF CHI ENGINEERING SERVICES, INC. PLAN PROVIDED BY NATIONAL GRID.
   - FIGURE 2 "EXPLORATION LOCATION PLAN" DATED SEPTEMBER 2019 BY GZA ON BEHALF OF HDR, INC. PLANS PROVIDED BY NATIONAL GRID.
   - ELECTRONIC CAD FILE "ACAD-7257PL.DWG" PROVIDED BY VANASSE HANGEN BRUSTLIN (VHB) ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3 AND AERIAL MAPPING BY WSP TRANSPORTATION AND INFRASTRUCTURE DATED JANUARY 15, 2014 PREPARED FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS AND CAD FILE NO. 09303023.052-1.DWG. PLANS PROVIDED BY NATIONAL GRID.
   - ON-SITE INVESTIGATIONS AND SURVEYS BY GZA PERSONNEL DURING VARIOUS SITE VISITS BETWEEN 2011 AND 2020.
4) THE LOCATION OF THE EXPLORATIONS AND MONITORING WELLS AT THE SITE WERE APPROXIMATELY DETERMINED AND HAVE BEEN ALIGNED AND ADJUSTED FOR THE "BEST FIT" AND THESE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
5) HORIZONTAL DATUM IS BASED ON NAD 1983 FROM BASE MAPPING PROVIDED BY VHB.
6) VERTICAL DATUM IS BASED ON NAVD 1988 FROM BASE MAPPING PROVIDED BY VHB.
7) APPROXIMATE HISTORICAL STRUCTURE/EQUIPMENT LOCATIONS AND DATES WERE OBTAINED FROM THE FOLLOWING SOURCES:
   - CERTIFIED SANBORN MAPS DATED: 1950, 1956, 1972, 1977 AND 1982
   - AERIAL ORTHOPHOTOGRAPHIC IMAGES OBTAINED FROM RIGIS: 1939, 1951, 1962, 1972, 1976, 1981, 1988, 1992, 1995, 1997, 2002, 2008
   - SITE PLANS PROVIDED BY RESOURCE CONTROLS ASSOCIATES (RCA) IN THE RIDEM-SUBMITTED JULY 5, 1994 "SITE CHARACTERIZATION PLAN" PREPARED ON BEHALF OF THE PROVIDENCE GAS COMPANY. PLANS PROVIDED BY NATIONAL GRID.
   - HISTORIC SITE PLAN "GENERAL PLAN OF WORKS, PROVIDENCE GAS COMPANY, SASSAFRAS POINT PLANT, PROVIDENCE, RHODE ISLAND." UNDATED. PLANS PROVIDED BY NATIONAL GRID.
8) THE SITE HAS BEEN THE LOCATION OF NUMEROUS REMEDIAL ACTIONS. THIS PLAN SET DOES NOT PRESENT THE LOCATIONS OF ANY CONFIRMATORY SAMPLES THAT HAVE BEEN COLLECTED AT THE SITE. THIS PLAN SET MAY INCLUDE LOCATIONS THAT HAVE BEEN FULLY EXCAVATED AND THE PRESENTED EXPLORATIONS MAY NOT BE TRUE TO CURRENT CONDITIONS.
9) THIS PLAN SET DOES NOT PRESENT THE LOCATIONS OF SAMPLES THAT WERE COLLECTED FOR GEOTECHNICAL PURPOSES ONLY. THIS INCLUDES CONE PENETROMETER TESTING SAMPLES AND TEST PITS CONDUCTED WITH NO SOIL DESCRIPTIONS OR ENVIRONMENTAL SAMPLES COLLECTED. HOWEVER, THE LOCATIONS OF KNOWN GEOTECHNICAL BORINGS (PRESENTED ON PLANS PROVIDED BY NATIONAL GRID) ARE PRESENTED IN THIS PLAN SET.
10) LOGS FROM GEOTECHNICAL BORINGS SERIES PGC-1 (1912 GEOTECHNICAL BORINGS PERFORMED FOR THE PROVIDENCE GAS COMPANY) AND SERIES B-200 (1973 GEOTECHNICAL BORINGS PERFORMED FOR THE PROVIDENCE GAS COMPANY) CONSIST OF FENCE DIAGRAMS ONLY.

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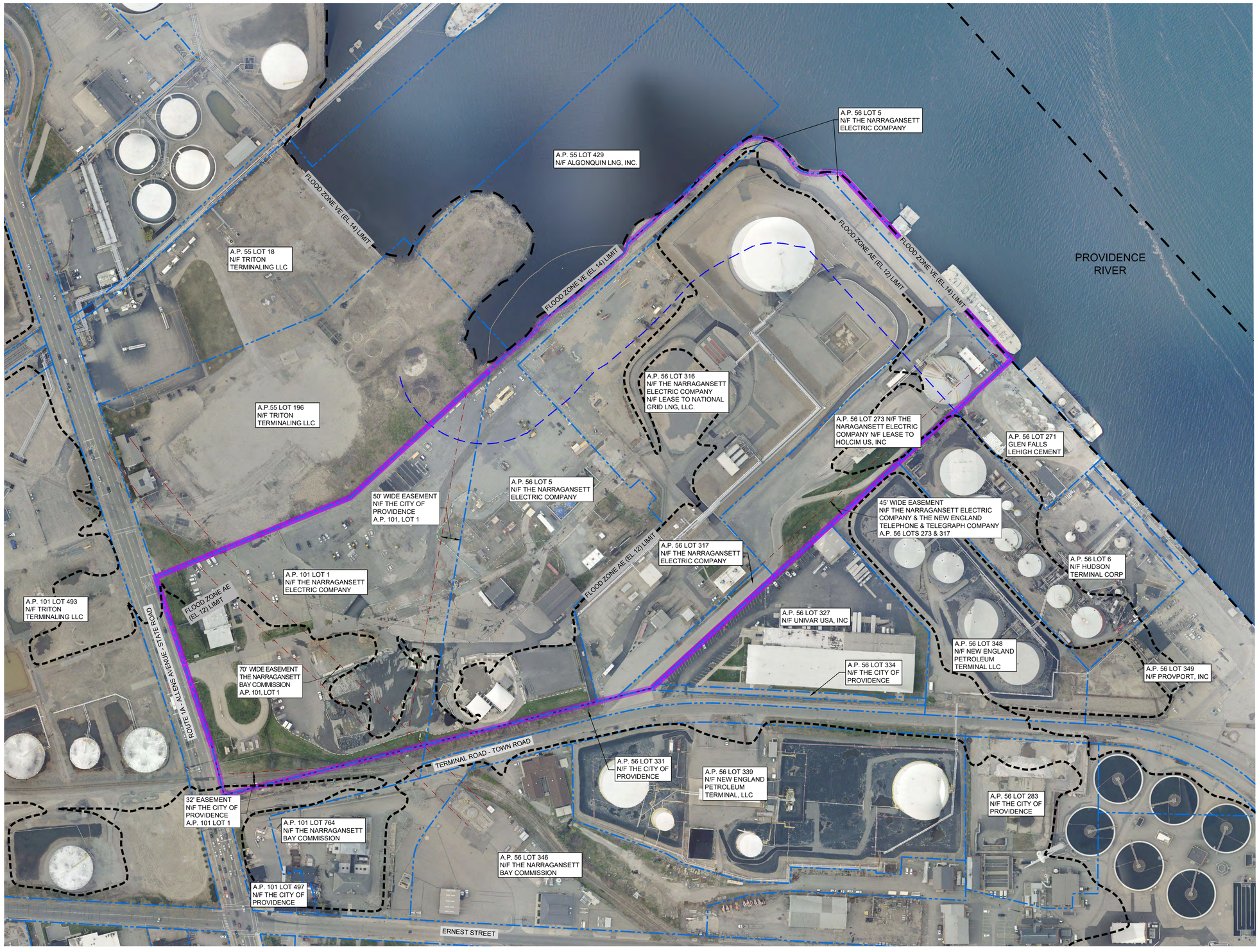
NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

GENERAL NOTES AND LEGEND

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: Rhode Island Energy (a PPL company)	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING N1
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 2 OF 9



LEGEND:

- PROPERTY LINES
- 642 ALLENS AVENUE FORMER MGP SITE
- CRMC 200-FOOT JURISDICTIONAL LINE
- EASEMENT AREA
- FLOOD ZONE VE (EL. 14) LIMIT
- FLOOD ZONE AE (EL. 12) LIMIT

REFERENCE NOTES:

1. BASE MAP DEVELOPED FROM RHODE ISLAND'S RIGIS AERIAL IMAGERY PUBLISHED IN APRIL 2019.
2. PROPERTY LINES AND LOT INFORMATION ESTABLISHED FROM INFORMATION PROVIDED ON A DRAWING ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3.
3. EASEMENT LOCATIONS WERE DEVELOPED FROM THE FOLLOWING:
   - ELECTRONIC CAD FILE "ACAD-7257PL.DWG" PROVIDED BY VANASSE HANGEN BRUSTLIN (VHB) ENTITLED "EXISTING CONDITIONS PLAN," PROJECT TITLE "NATIONAL GRID LNG TERMINAL ROAD LNG FACILITY" DATED MARCH 10, 2014, ORIGINAL SCALE 1" = 50', DRAWING NO. SV-1 THROUGH SV-3 AND AERIAL MAPPING BY WSP TRANSPORTATION AND INFRASTRUCTURE DATED JANUARY 15, 2014 PREPARED FOR NATIONAL GRID LAND SURVEYING DEPARTMENT, WALTHAM, MASSACHUSETTS AND CAD FILE NO. 09303023.052-1.DWG. PLANS PROVIDED BY NATIONAL GRID.
   - DESCRIPTIONS PROVIDED IN THE CITY OF PROVIDENCE DEED BOOK (BK) 470 PAGES 224 - 229, BK 561 PAGES 326 - 328, BK 1111 PAGES 752 -756 AND BK 5249 PAGES 219 - 322.
4. FLOOD ZONE HAZARD AREA DATA WERE PROVIDED BY RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS) AND DERIVED FROM STATEWIDE DIGITAL FLOOD INSURANCE RATE MAP (DFIRM) DATABASE, ORIGINALLY PUBLISHED BY FEMA IN OCTOBER 2015.
5. SITE BOUNDARIES ARE APPROXIMATE.

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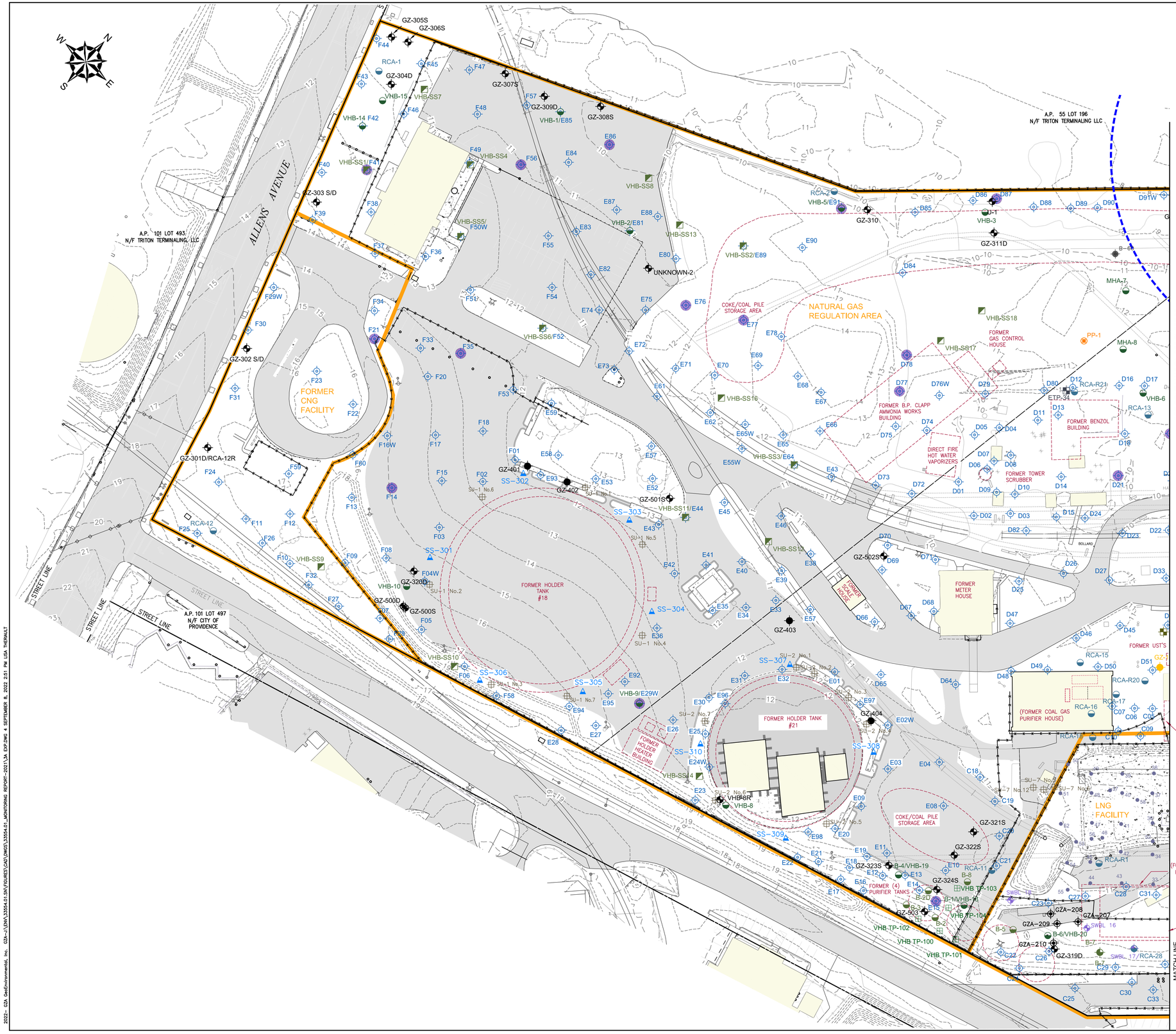
N W E S

0 60' 120' 240' 360'
SCALE IN FEET 1" = 120'

NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

OVERALL AERIAL

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: Rhode Island Energy	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 2
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 3 OF 9



EXPLORATION LEGEND:

GZ-500 S/D	ENVIRONMENTAL BORING OBSERVED BY GZA IN 2021
GZ-314 S/D	ENVIRONMENTAL BORING OBSERVED BY GZA IN 2014
VHB-7	ENVIRONMENTAL BORING OBSERVED BY VHB IN 2002 AND 2003
F47	ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999 AND 2000
1	ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999
RHB-1	ENVIRONMENTAL BORING OBSERVED BY ESS IN 1998
RCA-40	ENVIRONMENTAL BORING OBSERVED BY RCA BETWEEN 1994-1996
TP-301	ENVIRONMENTAL TEST PITS OBSERVED BY GZA IN 2014
VHB TP-101	ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2008
TP-1	ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2002
ETP-4	ENVIRONMENTAL TEST PITS OBSERVED BY RCA IN 1995 AND 1996
SS–301	SURFACE SOIL SAMPLE COLLECTED BY GZA IN 2014
VHB-SS2	SURFACE SOIL SAMPLE COLLECTED BY VHB IN 2003
SU–6 No.9	SURFACE SOIL SAMPLE COLLECTED BY RCA IN 1994 AND 1995
RSS–1	SEDIMENT SAMPLE COLLECTED BY RCA IN 1994 AND 1995
RW-1	RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
CHES-RW-1	RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
ESS-RW-1	RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000
GZ-401	GEOTECHNICAL BORING OBSERVED BY GZA IN 2015
SB-01	GEOTECHNICAL BORING OBSERVED BY WEIDLINGER ASSOCIATES, INC. (WAI) IN 2015
B-201	GEOTECHNICAL BORING PERFORMED BY GOLDER ASSOCIATES IN 2016
GZ-3	GEOTECHNICAL BORING BY GZA IN 2016
PRV-1	GEOTECHNICAL BORING PERFORMED BY GEOLOGIC, INC. IN 2019
PP-1	GEOTECHNICAL BORING PERFORMED BY PROCESS PIPELINE SERVICES IN 2015
GZA–206	GEOTECHNICAL BORING OBSERVED BY GZA IN 2005
GZ–1	GEOTECHNICAL BORING OBSERVED BY GZA IN 2004
SWBL13	GEOTECHNICAL BORING OBSERVED BY SWEC IN 1995
B-207	GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1973
B–25	GEOTECHNICAL BORING OBSERVED BY HALEY & ALDRICH IN 1971 AND 1972
PGC-8	GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1912
	ENVIRONMENTAL TEST PIT OBSERVED BY ESS IN 1999 AND 2000

LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- HISTORICAL STRUCTURE OR FEATURE
- PAVEMENT
- CONCRETE
- HYDRANT
- 200 FOOT CRMC SETBACK

NOTE:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

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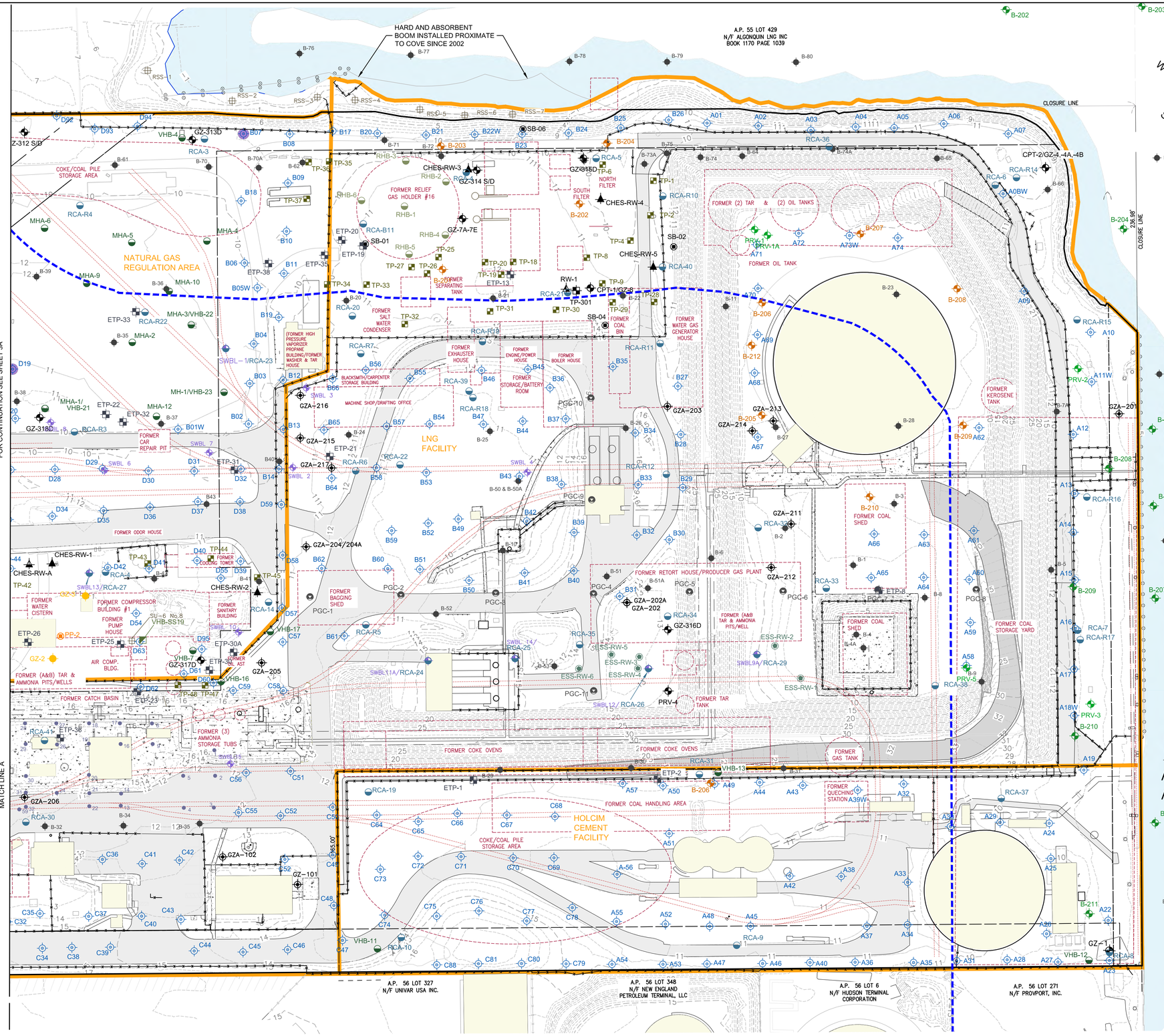
0 25 50 100 150
SCALE IN FEET 1" = 50'

NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

EXPLORATION LOCATION PLAN - FORMER CNG FACILITY AND NATURAL GAS REGULATION FACILITY

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: Rhode Island Energy	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 3A
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO.: 33554.01	REVISION NO.: 0	SHEET NO. 4 OF 9



EXPLORATION LEGEND:

- GZ-500 S/D — ENVIRONMENTAL BORING OBSERVED BY GZA IN 2021
- GZ-314 S/D — ENVIRONMENTAL BORING OBSERVED BY GZA IN 2014
- VHB-7 — ENVIRONMENTAL BORING OBSERVED BY VHB IN 2002 AND 2003
- F47 — ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999 AND 2000
- 1 — ENVIRONMENTAL BORING OBSERVED BY ESS IN 1999
- RHB-1 — ENVIRONMENTAL BORING OBSERVED BY ESS IN 1998
- RCA-40 — ENVIRONMENTAL BORING OBSERVED BY RCA BETWEEN 1994-1996
- TP-301 — ENVIRONMENTAL TEST PITS OBSERVED BY GZA IN 2014
- VHB TP-101 — ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2008
- TP-1 — ENVIRONMENTAL TEST PITS OBSERVED BY VHB IN 2002
- ETP-4 — ENVIRONMENTAL TEST PITS OBSERVED BY RCA IN 1995 AND 1996
- SS-301 — SURFACE SOIL SAMPLE COLLECTED BY GZA IN 2014
- VHB-SS2 — SURFACE SOIL SAMPLE COLLECTED BY VHB IN 2003
- SU-6 No.9 — SURFACE SOIL SAMPLE COLLECTED BY RCA IN 1994 AND 1995
- RSS-1 — SEDIMENT SAMPLE COLLECTED BY RCA IN 1994 AND 1995
- CHES-RW-A — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2017
- RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
- CHES-RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
- ESS-RW-1 — RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000
- GZ-401 — GEOTECHNICAL BORING OBSERVED BY GZA IN 2015
- SB-01 — GEOTECHNICAL BORING OBSERVED BY WEIDLINGER ASSOCIATES, INC. (WAI) IN 2015
- B-201 — GEOTECHNICAL BORING PERFORMED BY GOLDER ASSOCIATES IN 2016
- GZ-3 — GEOTECHNICAL BORING BY GZA IN 2016
- PP-1 — GEOTECHNICAL BORING PERFORMED BY PROCESS PIPELINE SERVICES IN 2015
- GZA-206 — GEOTECHNICAL BORING OBSERVED BY GZA IN 2005
- GZ-1 — GEOTECHNICAL BORING OBSERVED BY GZA IN 2004
- SWBL13 — GEOTECHNICAL BORING OBSERVED BY SWEC IN 1995
- B-207 — GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1973
- B-25 — GEOTECHNICAL BORING OBSERVED BY HALEY & ALDRICH IN 1971 AND 1972
- PGC-8 — GEOTECHNICAL BORING PERFORMED FOR PROVIDENCE GAS COMPANY IN 1912
- ENVIRONMENTAL TEST PIT OBSERVED BY ESS IN 1999 AND 2000

LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE
- STEEL POST
- LIGHT POLE
- PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- HISTORIC STRUCTURE OR FEATURE
- PAVEMENT
- CONCRETE
- HYDRANT
- 200 FOOT CRMC SETBACK

NOTE:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

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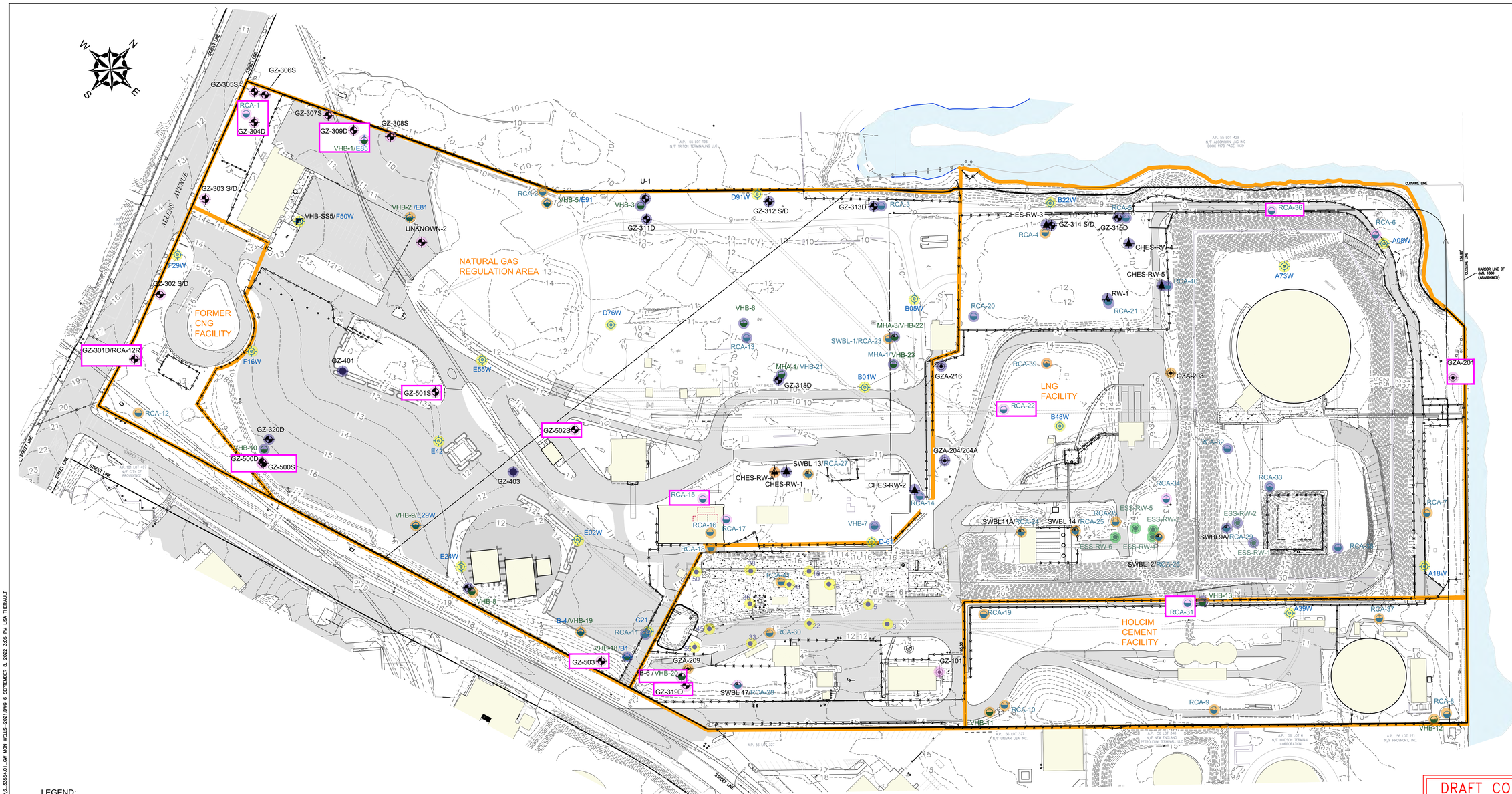
0 25 50 100 150
SCALE IN FEET 1" = 50'

NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

EXPLORATION LOCATION PLAN - LNG FACILITY AND HOLCIM CEMENT FACILITY

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: Rhode Island Energy	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 3B
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 5 OF 9



LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE
- STEEL POST
- LIGHT POLE
- PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- PAVEMENT
- CONCRETE

MONITORING WELL LEGEND:

- GZ-500 S/D — MONITORING WELL INSTALLED BY GZA IN 2021
- GZ-401 — MONITORING WELL INSTALLED BY GZA IN 2015
- GZ-314 S/D — MONITORING WELL INSTALLED BY GZA IN 2014
- GZA–206 — MONITORING WELL INSTALLED BY GZA IN 2005
- VHB-7 — MONITORING WELL INSTALLED BY VHB IN 2002 AND 2003
- F47 — TEMPORARY WELL POINT INSTALLED BY ESS IN 1999 AND 2000
- 1 — TEMPORARY WELL POINT INSTALLED BY ESS IN 1999
- RCA-40 — MONITORING WELL INSTALLED BY RCA IN 1996
- CHES-RW-A — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2017
- RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
- CHES-RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
- ESS-RW-1 — RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000

MONITORING WELL LEGEND CONTINUED:

- ACTIVE MONITORING WELLS
- DECOMMISSIONED OR DESTROYED MONITORING WELLS (PRE-2016)
- 2016 DECOMMISSIONED MONITORING WELLS
- TEMPORARY MONITORING WELL-ASSUMED DESTROYED
- RECOVERY WELLS
- MONITORING WELL SAMPLED IN 2021

NOTES:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

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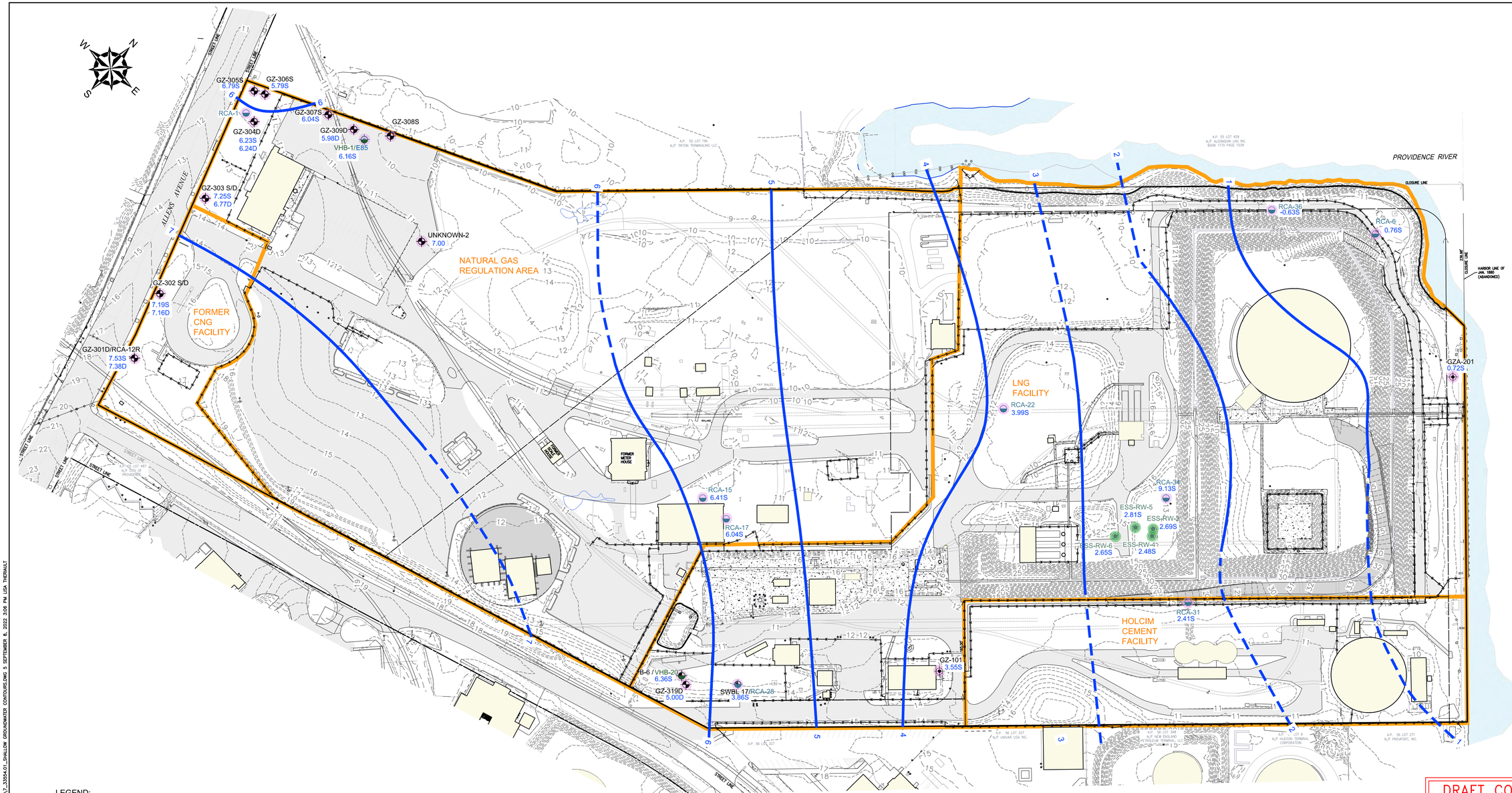
0 40 80 160 240
SCALE IN FEET 1" = 80'

NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

GROUNDWATER MONITORING WELLS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: Rhode Island Energy	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 4
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 4 OF 9



LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- PAVEMENT
- CONCRETE

MONITORING WELL LEGEND:

- UNKNOWN-2 — MONITORING WELL FOUND IN 2019
- GZ-314 S/D — MONITORING WELL INSTALLED BY GZA IN 2014
- GZA–206 — MONITORING WELL INSTALLED BY GZA IN 2005
- VHB-7 — MONITORING WELL INSTALLED BY VHB IN 2002 AND 2003
- F47 — TEMPORARY WELL POINT INSTALLED BY ESS IN 1999 AND 2000
- RCA-40 — MONITORING WELL INSTALLED BY RCA IN 1996
- ESS-RW-1 — RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000
- 2.93S 2.56D — GROUNDWATER ELEVATION OBSERVED ON NOVEMBER 23, 2020 (IN FEET RELATIVE TO NAVD 1988)
- S — INDICATES THE MONITORING WELL SCREEN IS SHALLOW (GENERALLY AT THE NATURAL WATER TABLE)
- D — INDICATES THE MONITORING WELL SCREEN IS DEEP (GENERALLY DEEPER THAN THE NATURAL WATER TABLE)

MONITORING WELL LEGEND CONTINUED:

- MONITORING WELLS
- RECOVERY WELLS
- 5 — SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON NOVEMBER 23, 2020
- 4 — INFERRED SHALLOW GROUNDWATER ELEVATION CONTOUR (NAVD 1988) ON NOVEMBER 23, 2020

GROUNDWATER CONTOUR NOTES:

1. SHALLOW GROUNDWATER CONTOURS (NAVD 1988) ARE BASED ON DATA FROM WIDELY SPACED EXPLORATIONS AND MAY NOT REFLECT ACTUAL SUBSURFACE CONDITIONS. WATER LEVEL READINGS WERE ON NOVEMBER 23, 2020.
2. WATER LEVEL READINGS HAVE BEEN MADE IN THE MONITORING WELLS AT THE TIMES AND UNDER THE CONDITIONS STATED IN THE TEXT OF THIS REPORT. THESE DATA HAVE BEEN REVIEWED AND INTERPRETATIONS MADE IN THE TEXT OF THIS REPORT, HOWEVER, FLUCTUATIONS IN THE LEVEL OF THE GROUNDWATER MAY OCCUR DUE TO VARIATIONS IN RAINFALL, TEMPERATURE AND OTHER FACTORS.

NOTES:

1. THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.
2. MONITORING WELL GZ-308S WAS UNABLE TO BE GAUGED DURING THE NOVEMBER 2020 GAUGING ROUND DUE TO CONSTRUCTION MATERIALS OBSTRUCTING ACCESS.
3. MONITORING WELL UNKNOWN-2 WAS GAUGED ON DECEMBER 21, 2020.

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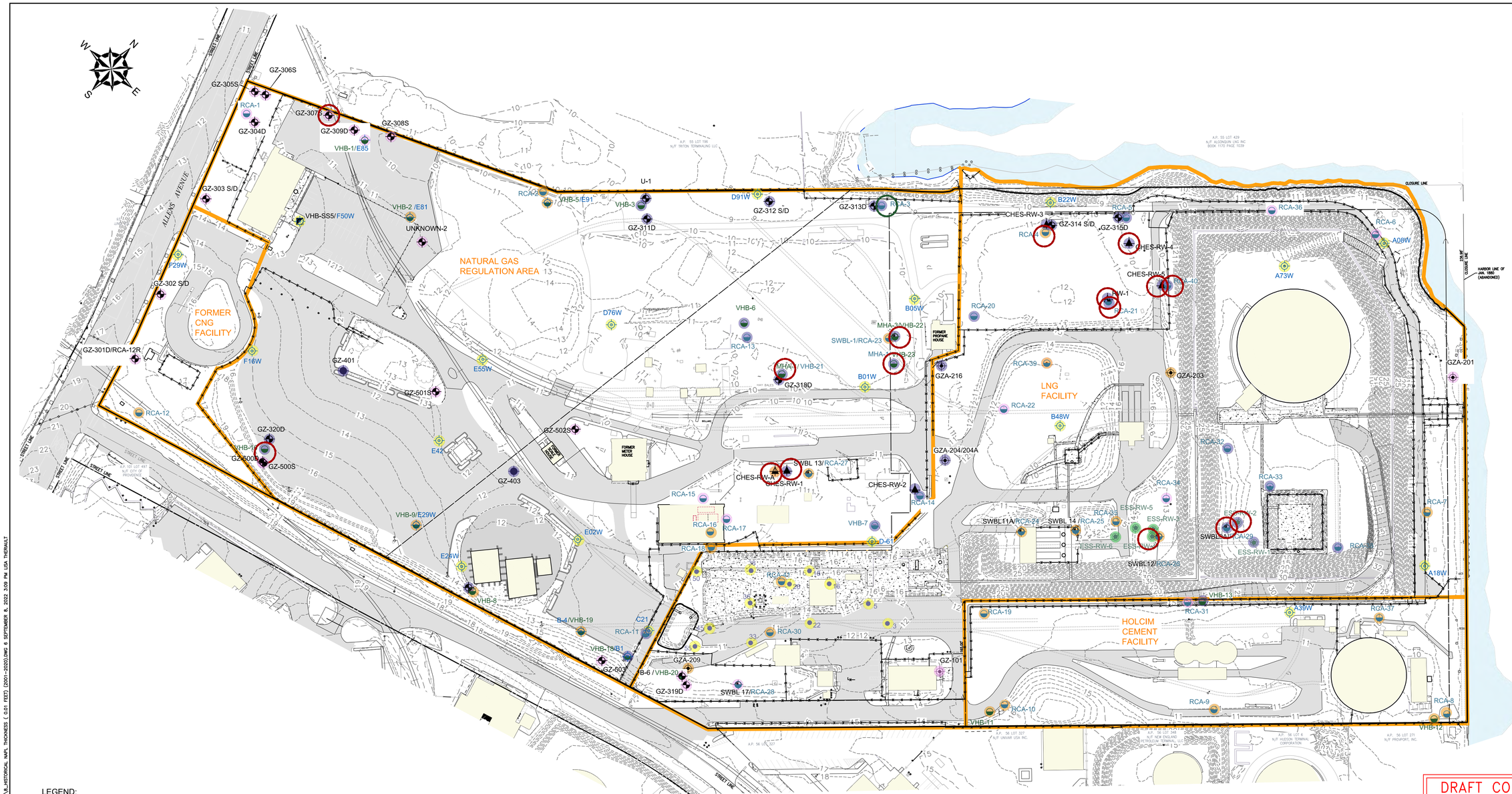
0 40 80 160 240
SCALE IN FEET 1" = 80'

NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

SHALLOW GROUNDWATER CONTOURS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: Rhode Island Energy	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 5
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 7 OF 9



LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- PAVEMENT
- CONCRETE

MONITORING WELL LEGEND:

- GZ-500 S/D — MONITORING WELL INSTALLED BY GZA IN 2021
- GZ-401 — MONITORING WELL INSTALLED BY GZA IN 2015
- GZ-314 S/D — MONITORING WELL INSTALLED BY GZA IN 2014
- GZA–206 — MONITORING WELL INSTALLED BY GZA IN 2005
- VHB-7 — MONITORING WELL INSTALLED BY VHB IN 2002 AND 2003
- F47 — TEMPORARY WELL POINT INSTALLED BY ESS IN 1999 AND 2000
- 1 — TEMPORARY WELL POINT INSTALLED BY ESS IN 1999
- RCA-40 — MONITORING WELL INSTALLED BY RCA IN 1996
- CHES-RW-A — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2017
- RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
- CHES-RW-1 — RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
- ESS-RW-1 — RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000

MONITORING WELL LEGEND CONTINUED:

- ACTIVE MONITORING WELLS
- DECOMMISSIONED OR DESTROYED MONITORING WELLS (PRE-2016)
- 2016 DECOMMISSIONED MONITORING WELLS
- TEMPORARY MONITORING WELL-ASSUMED DESTROYED
- RECOVERY WELLS
- DETECTED LNAPL THICKNESS (≥0.01 FEET)
- DETECTED DNAPL THICKNESS (≥0.01 FEET)

NOTES:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

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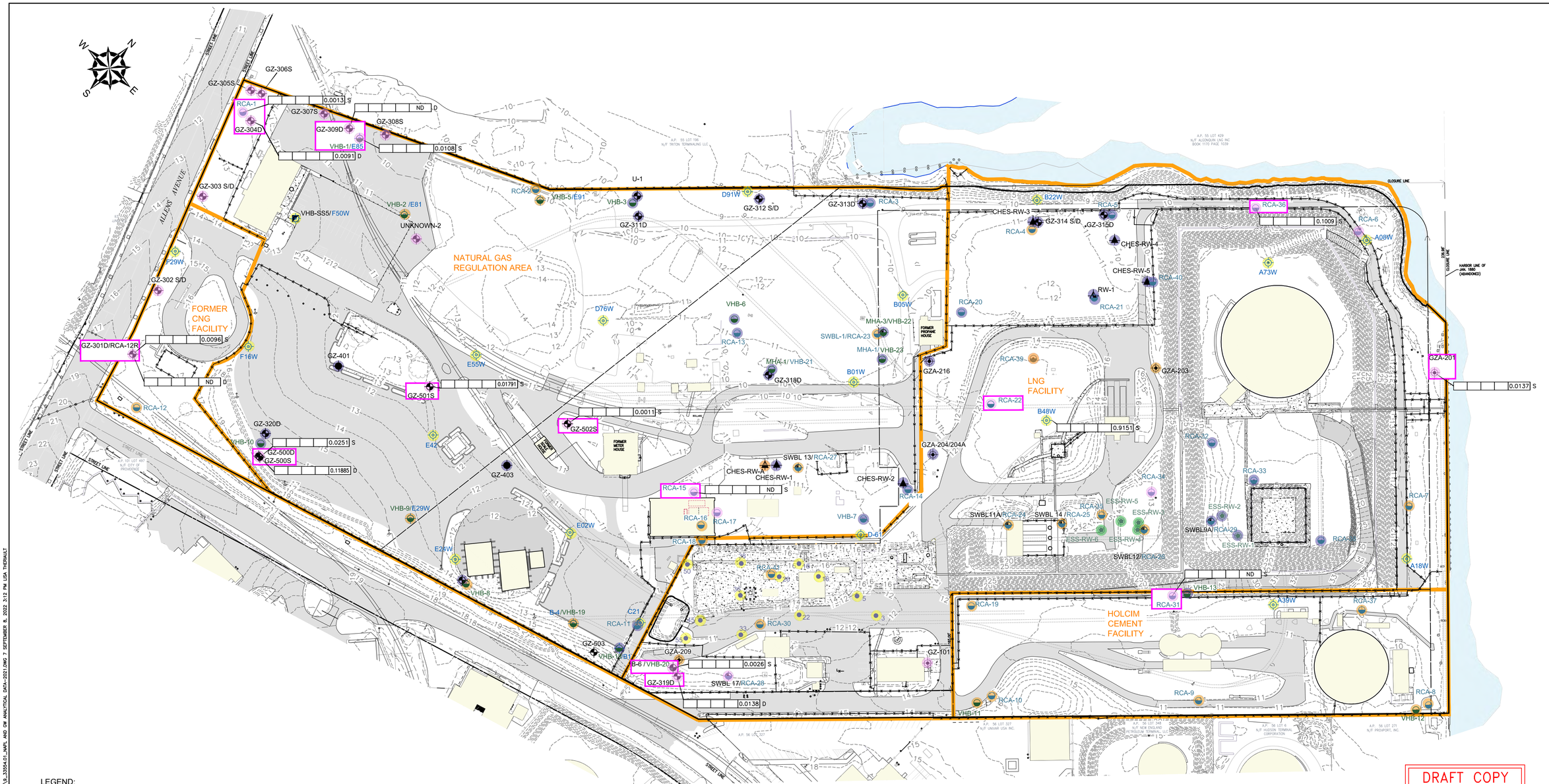
SCALE IN FEET 1" = 80'

NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

HISTORICAL NAPL THICKNESS (≥0.01 FEET) (2001-2021)

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com
PREPARED FOR: Rhode Island Energy

PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 6
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 8 OF 9



LEGEND:

- PROPERTY LINE
- SITE AREA BOUNDARY
- INTERIOR PROPERTY LINE
- EXISTING BUILDING
- UTILITY POLE / STEEL POST
- LIGHT POLE / PILING
- EDGE OF WATER
- FENCE
- RAILROAD TRACKS
- EXISTING CONTOUR (MAJOR 5 FOOT INTERVAL)
- EXISTING CONTOUR (MINOR 1 FOOT INTERVAL)
- PAVEMENT
- CONCRETE

MONITORING WELL LEGEND:

GZ-500 S/D	MONITORING WELL INSTALLED BY GZA IN 2021
GZ-401	MONITORING WELL INSTALLED BY GZA IN 2015
GZ-314 S/D	MONITORING WELL INSTALLED BY GZA IN 2014
GZA-206	MONITORING WELL INSTALLED BY GZA IN 2005
VHB-7	MONITORING WELL INSTALLED BY VHB IN 2002 AND 2003
F47	TEMPORARY WELL POINT INSTALLED BY ESS IN 1999 AND 2000
1	TEMPORARY WELL POINT INSTALLED BY ESS IN 1999
RCA-40	MONITORING WELL INSTALLED BY RCA IN 1996
CHES-RW-A	RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2017
RW-1	RECOVERY WELL INSTALLED BY CHES OBSERVED BY GZA IN 2014
CHES-RW-1	RECOVERY WELL INSTALLED BY CHES OBSERVED BY VHB IN 2002
ESS-RW-1	RECOVERY WELL INSTALLED BY ESS IN 1999 AND 2000

MONITORING WELL LEGEND CONTINUED:

- ACTIVE MONITORING WELLS
- DECOMMISSIONED OR DESTROYED MONITORING WELLS (PRE-2016)
- 2016 DECOMMISSIONED MONITORING WELLS
- TEMPORARY MONITORING WELL-ASSUMED DESTROYED
- RECOVERY WELLS
- MONITORING WELL SAMPLED IN 2021

NOTES:

THIS SHEET IS SUBJECT TO SHEET N1 GENERAL NOTES.

EXCEEDANCES OF THE RIDEM METHOD 1 AND 2 GB GROUNDWATER OBJECTIVES:

- AGGREGATE VOC CONCENTRATION [PPM]
- 0.008 S — INDICATES WHETHER MONITORING WELL IS SHALLOW OR DEEP
- VINYL CHLORIDE [GB= 0.002 PPM]
- NAPHTHALENE [GB= 2.67 PPM]
- BENZENE [GB= 0.14 PPM]
- ETHYLBENZENE [GB= 1.6 PPM]
- PRESENCE OF MEASURABLE NAPL (≥0.01 FT) FOR 2021
- [S/D] INDICATES WHETHER MONITORING WELL IS SHALLOW OR DEEP
- ND NOT DETECTED

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0 40 80 160 240
SCALE IN FEET 1" = 80'

NATIONAL GRID
MONITORING REPORT - 2021
642 ALLENS AVENUE PROVIDENCE, RHODE ISLAND

2021 NAPL AND GW ANALYTICAL DATA

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: Rhode Island Energy	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: JJC	DRAWING 7
DESIGNED BY: TA	DRAWN BY: LDT	SCALE: AS NOTED	
DATE: SEPTEMBER, 2022	PROJECT NO. 33554.01	REVISION NO. 0	SHEET NO. 9 OF 9

APPENDIX A

LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS

1. This *Groundwater Monitoring Report* has been prepared on behalf of and for the exclusive use of The Narragansett Electric Company d/b/a National Grid, solely for use in documenting the conditions observed at the property located at 642 Allens Avenue in Providence, Rhode Island ("Site"). This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of GZA or National Grid.

2. GZA's work was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and GZA observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. GZA's findings and conclusions must be considered not as scientific certainties, but rather as our professional opinion concerning the significance of the limited data gathered during the course of the study. No other warranty, express or implied is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during the performance of our Site investigations.

3. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based upon services performed and observations made by GZA.

4. In the event that National Grid or others authorized to use this report obtain information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

5. The conclusions and recommendations contained in this report are based in part upon the data obtained from environmental samples obtained from relatively widely spread subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. The generalized soil profile described in the text is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more gradual. For specific information, refer to the boring logs.

7. In the event this work included the collection of water level data, these readings have been made in the test pits, borings and/or observation wells at times and under conditions stated on the exploration logs. These data have been reviewed and interpretations have been made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

8. The conclusions contained in this report are based in part upon various types of chemical data and are contingent upon their validity. These data have been reviewed and interpretations made in the report. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by GZA and the conclusions and recommendations presented herein modified accordingly.

APPENDIX B

GROUNWATER SAMPLING LOW FLOW LOGS

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 40's

Well ID: GZ-500D
Sample Date: 11/16/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/16/2021 1340

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	32.86	Standing Water in Well (feet):	21.14
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	11.72	Sample Depth (feet BGS):	25
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	20 to 30	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 1407 **Stop time:** 1430

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1410	12.34	-64.20	6.62	2969	1.94	14.1	34.12	<500	
1414	12.34	-69.30	6.61	2952	9.15	14.3	30.74	<500	
1422	12.34	-70.90	6.61	2954	0.81	14.3	29.68	<500	
1425	12.34	-71.10	6.61	2950	0.76	14.4	31.98	<500	
1428	12.34	-71.40	6.61	2251	0.75	14.3	32.17	<500	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1428

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1 gal **Tubing Volume:** 0.175 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 40's

Well ID: GZ-500S
Sample Date: 11/16/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/16/2021 1337

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	17.81	Standing Water in Well (feet):	6.17
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	11.64	Sample Depth (feet BGS):	13
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	5 to 15	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 1435 **Stop time:** 1502

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1441	11.66	23.20	6.25	423.7	0.56	16.3	20.88	<500	
1449	11.66	19.20	6.27	433.8	0.57	15.4	11.70	<500	
1452	11.66	19.10	6.27	435.1	0.53	15.8	11.31	<500	
1455	11.66	18.20	6.27	437.4	0.51	15.7	10.42	<500	
1500	11.66	16.40	6.28	441.2	0.46	15.7	9.73		

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1502

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1.5 gal **Tubing Volume:** 0.1 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 40's

Well ID: GZ-501S
Sample Date: 11/16/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/16/2021 1330

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	16.18	Standing Water in Well (feet):	9.18
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	7.00	Sample Depth (feet BGS):	12
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):		Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 1519 **Stop time:** 1540

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1524	7.04	21.3	6.43	481.8	0.57	16.4	22.31	<500	
1527	7.04	20.8	6.43	481.7	0.53	16.4	21.76	<500	
1530	7.04	19.2	6.44	481.1	0.48	16.3	27.92	<500	
1533	7.04	16.9	6.44	480.7	0.41	16.3	19.44	<500	
1536	7.04	16.3	6.44	481.0	0.40	16.3	19.42	<500	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1538

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1 gal **Tubing Volume:** 0.1 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 40's

Well ID: GZ-502S
Sample Date: 11/16/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/16/2021 1324

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	15.65	Standing Water in Well (feet):	9.47
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	6.18	Sample Depth (feet BGS):	12
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	5 to 15	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 1355 **Stop time:** 1622

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1600	6.58	147.5	6.91	319.1	3.04	15.7	123.20	<500	
1607	6.58	156.8	6.90	319.6	2.75	15.7	119.50	<500	
1610	6.58	164.2	6.90	319.5	2.53	15.7	120.46	<500	
1615	6.58	173.9	6.89	319.9	2.39	15.7	122.61	<500	
1618	6.58	182.6	6.87	320.1	2.14	15.7	122.15	<500	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1621

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1.5 gal **Tubing Volume:** 0.1 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Partly Cloudy, 50's

Well ID: GZ-201
Sample Date: 11/17/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/17/2021 0920

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	20.72	Standing Water in Well (feet):	12.03
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	8.69	Sample Depth (feet BGS):	15
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	10 to 20	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [X] Yes [ ] No **Expansion Cap-** [ ] Yes [X] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 934 **Stop time:** 1002

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
941	9.57	-68.9	6.73	220.6	0.58	16.1	702.18	<500	
944	9.57	-75.8	6.74	221.3	0.50	15.4	671.27	<500	
947	9.57	-80.9	6.76	223.4	0.46	15.6	652.63	<500	
950	9.57	-81.6	6.76	223.6	0.48	15.6	638.49	<500	
953	9.57	-80.6	6.75	219.9	0.47	15.6	237.46	<500	
956	9.57	-78.8	6.72	211.1	0.47	15.7	726.02	<500	
959	9.57	-78.7	6.72	213.4	0.48	15.6	224.87	<500	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1000

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Dull Sheen Odor: None Clarity: Turbid

Total Purge Volume: 2 gal **Tubing Volume:** 0.0375 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Partly Cloudy 50's

Well ID: RCA-36
Sample Date: 11/17/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/17/2021 1016

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	12.46	Standing Water in Well (feet):	1.66
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	10.80	Sample Depth (feet BGS):	12
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	5 to 15	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [X] Poor [ ] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [ ] Yes [X] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [X] Poor [ ] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS: **Start time:** 1020 **Stop time:** 1044

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1025	11.08	80.5	6.37	14098	1.60	13.3	20.74	<500	
1028	11.08	79.7	6.34	14298	1.60	13.4	10.94	<500	
1031	11.08	79.0	6.34	14540	1.78	13.4	10.42	<500	
1039	11.08	78.6	6.34	14684	1.78	13.3	9.39	<500	
1037	11.08	78.1	6.34	14892	1.81	13.4	8.44	<500	
1041	11.08	78.0	6.34	14877	1.80	13.4	8.38	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 1042

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1.5 gal **Tubing Volume:** 0.03 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Partly Cloudy 50's

Well ID: RCA-31
Sample Date: 11/17/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/17/2021 1128

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	13.81	Standing Water in Well (feet):	1.64
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	12.17	Sample Depth (feet BGS):	13
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	5 to 15	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [X] Yes [ ] No **Expansion Cap-** [ ] Yes [X] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [ ] Yes [X] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS: **Start time:** 1131 **Stop time:** 1151

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1136	12.20	32.6	7.49	768	3.02	15.4	5.65	<500	
1139	12.20	33.7	7.50	765	3.03	15.4	5.16	<500	
1142	12.20	37.6	7.48	766	2.98	15.4	5.43	<500	
1145	12.20	40.9	7.47	769	2.92	15.4	5.32	<500	
1148	12.20	44.6	7.46	774	2.79	15.5	5.78	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 1150

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1 gal **Tubing Volume:** 0.03 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Partly Cloudy 50's

Well ID: GZ-319D
Sample Date: 11/17/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/17/2021 1207

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	32.42	Standing Water in Well (feet):	23
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	9.42	Sample Depth (feet BGS):	25
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	20 to 30	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [ ] Yes [X] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS: **Start time:** 1210 **Stop time:** 1238

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1228	9.49	-58.70	6.73	775	0.62	15.0	68.52	<500	
1232	9.49	-58.50	6.72	776	0.58	15.0	65.38	<500	
1235	9.49	-58.40	6.72	775	0.56	15.0	64.23	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 1237

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: Petroleum-like Clarity: Slightly Turbid

Total Purge Volume: 1 gal **Tubing Volume:** 0.03 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Slightly Cloudy 50's

Well ID: VHB-20
Sample Date: 11/17/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/17/2021 1213

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	17.44	Standing Water in Well (feet):	9.3
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	8.14	Sample Depth (feet BGS):	11
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	6 to 10	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [ ] Yes [X] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [ ] Yes [X] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. Rental

INSTRUMENT MEASUREMENTS:

Start time: 1226 **Stop time:** 1300

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1239	8.16	109.5	6.79	565	1.52	16.1	34.79	<500	
1244	8.16	224.0	6.83	574	1.31	16.0	23.23	<500	
1247	8.16	235.3	6.84	577	1.26	16.0	21.90	<500	
1250	8.16	249.6	6.88	587	1.07	16.0	15.40	<500	
1253	8.16	250.5	6.88	587	1.07	16.0	15.71	<500	
1256	8.16	251.6	6.88	587	1.06	16.1	14.49	<500	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1258

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: None Odor: None Clarity: Clear

Total Purge Volume: 0.5 gal **Tubing Volume:** 0.0275 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:
BD-01 Collected at 1259

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Partly Cloudy 50's

Well ID: RCA-22
Sample Date: 11/17/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/17/2021 1405

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	12.93	Standing Water in Well (feet):	3.69
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	9.24	Sample Depth (feet BGS):	12
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	5 to 15	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [ ] Yes [X] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS:

Start time: 1416 **Stop time:** 1441

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1421	9.37	-61.5	6.88	1447	0.69	14.9	78.32	<500	
1424	9.37	-65.9	6.84	1506	0.63	14.9	56.71	<500	
1427	9.37	-72.2	6.85	1532	0.66	14.8	47.60	<500	
1430	9.37	-80.0	6.88	1530	0.52	14.7	41.57	<500	
1433	9.37	-83.2	6.89	1534	0.48	14.8	31.39	<500	
1436	9.37	-84.7	6.90	1532	0.45	14.8	31.86	<500	
1439	9.37	-85.5	6.90	1530	0.44	14.8	39.73		

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1440

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1.5 gal **Tubing Volume:** 0.0625 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Rain/Mostly Cloudy 50's

Well ID: RCA-12R
Sample Date: 11/17/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/17/2021 0836

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	14.48	Standing Water in Well (feet):	-
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	9.31	Sample Depth (feet BGS):	12
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	5 to 15	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS:

Start time: 844 **Stop time:** 929

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
859	9.32	135.9	5.98	14240	1.10	17.2	76.53	<500	
902	9.32	140.6	5.93	14205	1.07	17.1	46.06	<500	
905	9.32	142.7	5.93	14167	1.02	17.1	42.17	<500	
911	9.32	144.9	5.95	14072	0.97	17.2	32.38	<500	
914	9.32	144.5	5.95	14019	0.93	17.2	27.75	<500	
917	9.32	146.0	5.95	13955	0.91	17.2	27.82	<500	
920	9.32	146.6	5.96	13769	0.88	17.2	27.12	<500	
923	9.32	146.9	5.97	13784	0.87	17.2	26.25	<500	
926	9.32	147.3	5.97	13724	0.86	17.2	25.43	<500	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 928

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: None Odor: None Clarity: Clear

Total Purge Volume: 2.5 gal **Tubing Volume:** 0.03 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 60's

Well ID: GZ-301D
Sample Date: 11/18/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/18/2021 0828

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	29.37	Standing Water in Well (feet):	-
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	9.36	Sample Depth (feet BGS):	25
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	20 to 30	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [X] Poor [ ] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS: **Start time:** 856 **Stop time:** 953

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
932	9.52	-18.1	6.76	1526	1.37	16.5	19.79	<500	
935	9.52	-18.3	6.76	1509	1.30	16.5	19.46	<500	
948	9.52	-30.2	6.76	1427	1.35	16.8	11.02	<500	
944	9.52	-32.1	6.75	1430	1.12	16.5	12.24	<500	
947	9.52	-33.9	6.75	1423	1.05	16.6	12.21	<500	
950	9.52	-35.4	6.75	1427	1.00	16.5	12.45	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 952

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 1.5 gal **Tubing Volume:** 0.0625 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 60's

Well ID: RCA-1
Sample Date: 11/18/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/18/2021 1011

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	14.65	Standing Water in Well (feet):	9.62
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	5.03	Sample Depth (feet BGS):	10
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	5 to 15	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS: **Start time:** 1016 **Stop time:** 1141

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1028	5.12	69.6	6.24	772	0.91	16.2	79.81	<500	
1031	5.12	64.0	6.23	772	0.89	16.4	72.54	<500	
1034	5.12	68.1	6.23	772	0.91	16.4	80.51	<500	
1040	5.12	68.5	6.23	771	0.91	16.4	100.11	<500	
1044	5.12	68.5	6.24	770	0.91	16.5	123.23	<500	
1048	5.12	68.6	6.26	774	0.92	16.6	96.13	<500	
1052	5.12	68.7	6.26	764	0.90	16.7	64.56	<500	
1056	5.12	68.4	6.25	777	0.83	16.5	38.72	<500	
1118	5.12	66.7	6.27	777	0.72	16.6	23.23	<500	
1125	5.12	68.6	6.25	777	0.73	16.4	22.18	<500	
1137	5.12	68.6	6.24	778	0.73	16.6	22.87	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 1139

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Reddish Clear Odor: None Clarity: Slightly Turbid

Total Purge Volume: 5 gal **Tubing Volume:** 0.0625 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:
Very Turbid Red (rust) water at start of pumping

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 60's

Well ID: GZ-304D
Sample Date: 11/18/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/18/2021 1021

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	29.62	Standing Water in Well (feet):	23.63
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	5.73	Sample Depth (feet BGS):	25
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	20 to 30	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [X] Yes [ ] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS: **Start time:** 1025 **Stop time:** 1247

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1148	5.92	-48.4	6.66	1513	0.38	15.3	83.64	<500	
1153	5.92	-46.5	6.65	1445	0.37	15.4	70.63	<500	
1201	5.92	-43.8	6.65	1408	0.50	15.5	69.24	<500	
1208	5.92	-39.0	6.61	1298	0.31	15.7	76.31	<500	
1219	5.92	-38.2	6.49	1035	0.33	15.8	85.68	<500	
1232	5.92	-38.1	6.49	1037	0.33	15.6	70.72	<500	
1237	5.92	-37.8	6.49	1036	0.32	15.7	70.82	<500	
1242	5.92	-37.8	6.48	1037	0.32	15.7	71.63	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 1244

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: None Odor: None Clarity: Slightly Turbid

Total Purge Volume: 4 gal **Tubing Volume:** 0.0625 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 60's

Well ID: GZ-309D
Sample Date: 11/18/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/18/2021 1422

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	30.09	Standing Water in Well (feet):	27.05
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	3.04	Sample Depth (feet BGS):	25
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	20 to 30	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS:

Start time: 1424 **Stop time:** 1455

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (ºC) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1437	6.71	-79.4	7.22	3702	0.38	16.8	6.35	<500	
1440	6.71	-85.4	7.25	3530	0.35	16.9	6.59	<500	
1443	6.71	-94.4	7.26	3374	0.33	16.9	5.78	<500	
1446	6.71	-102.6	7.28	3161	0.30	16.7	6.44	<500	
1449	6.71	-106.3	7.28	3109	0.28	16.7	5.96	<500	
1452	6.71	-108.2	7.27	3082	0.28	16.7	6.22	<500	

SAMPLE TESTING INFORMATION:

SAMPLE TIME: 1454

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: None Odor: None Clarity: Clear

Total Purge Volume: 1.5 gal **Tubing Volume:** 0.0625 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 60's

Well ID: VHB-1
Sample Date: 11/18/2021
Sampler's Name:

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/18/2021 1430

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	11.34	Standing Water in Well (feet):	7.85
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	3.49	Sample Depth (feet BGS):	7
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	2 to 12	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS: **Start time:** 1446 **Stop time:** 1518

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1458	3.57	-88.6	6.69	4697	0.41	18.1	28.53	<500	
1501	3.57	-95.7	6.72	4562	0.34	18.2	26.02	<500	
1504	3.57	-98.5	6.73	4462	0.32	18.2	26.19	<500	
1507	3.57	-99.5	6.74	4396	0.32	18.1	21.36	<500	
1511	3.57	-100.3	6.74	4297	0.31	18.1	22.47	<500	
1515	3.57	-100.7	6.74	4214	0.30	18.1	22.24	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 1517

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Clear Odor: None Clarity: Clear

Total Purge Volume: 2 gal **Tubing Volume:** 0.0175 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:

GROUNDWATER SAMPLING DATA SHEET

File No. 33554.01
Project: 642 Allens Ave
Location: City: Providence State: Rhode Island
Weather: Sunny 60's

Well ID: RCA-15
Sample Date: 11/18/2021
Sampler's Name: Elliot Maker

WATER LEVEL OBSERVATIONS

Measurement Date/Time: 11/18/2021 1536

Point of Measurement: PVC Riser [X] Steel Casing [ ] Ground [ ]

Total Well Depth (feet):	18.1	Standing Water in Well (feet):	10.49
Depth to LNAPL (feet):	--	Well Diameter (in.)	2"
Depth to Water (feet):	7.65	Sample Depth (feet BGS):	10
Depth to DNAPL (feet):	--	Standpipe: TPVC to Ground Surface (feet)	-
Well Screened Interval (feet BGS):	4 to 14	Roadbox: TPVC to Ground Surface (feet)	-

Well Condition: **Protective Casing-** [ ] Poor [X] Good **Lock-** [ ] Yes [X] No **Expansion Cap-** [X] Yes [ ] No **Well ID-** [ ] Yes [X] No **Concrete Collar-** [X] Yes [ ] No **Well-** [ ] Poor [X] Good

EQUIPMENT

Sample Method: [ ] Bail [X] Pump / [X] Low Flow

Pump Type: Geopump No. 2 Rental **Flow-Thru Cell Vol (mL):** 250

Meter Type: YSI No. 2 Rental

INSTRUMENT MEASUREMENTS: **Start time:** 1539 **Stop time:** 1615

		1	2	3	4	5	6	7	8
Time: (start)	Depth to Water (ft) (drawdown <0.3 or stable)	ORP (mvolts) (± 10)	pH (s.u.) (± 0.1)	Spec. Cond. (µS/cm) (±3%)	DO (mg/L) (±10% or 3 rdgs <0.5)	Temperature (°C) (±3%)	Turbidity (ntu) (±10% or <5ntu)	Flow (ml/min) (<500 ml/min)	Notes
1552	7.63	46.9	6.17	1405	0.81	15.1	32.28	<500	
1556	7.63	45.4	6.11	1402	0.69	15.1	27.27	<500	
1559	7.63	42.3	6.10	1400	0.65	15.0	22.40	<500	
1602	7.63	41.0	6.09	1399	0.64	15.0	22.11	<500	
1605	7.63	39.8	6.09	1400	0.62	15.0	22.02	<500	
1608	7.63	38.6	6.09	1401	0.60	15.0	22.53	<500	
1611	7.63	37.5	6.08	1400	0.59	15.0	22.71	<500	

SAMPLE TESTING INFORMATION: **SAMPLE TIME:** 1613

Analysis	Method	No. Bottles	Bottle Type	Volume	Preservation	Handling
VOC	8260	3	VOA	40ml	HCL	On Ice

Sample observations:
Color: Rusty/Clear Odor: None Clarity: Clear

Total Purge Volume: 1.5 gal **Tubing Volume:** 0.025 gal

2" WELL = 0.163 GAL /FT = 0.617 LITERS/FT
1" WELL = 0.013 GAL /FT = 0.0492 LITERS/FT
3/8" TUBING - 0.0057 GAL/FT - 0.0217 LITERS/FT
1/4" TUBING - 0.0025 GAL/FT - 0.0096 LITERS/FT

Notes:
Very turbid reddish water when beginning pumping activities.

APPENDIX C

INVESTIGATION DERIVED WASTE SHIPPING RECORDS

Truck #621134

Please print or type. Generator acknowledges that no material change has occurred either in the characteristics or in the process generating this material. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	RIDOO7918774	1	(800) 483-3718	015503523 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-2647 ATTN: Susan Brochu

Generator's Site Address (if different than mailing address)
642 Aliens Avenue
Providence, RI 02905

6. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc.
U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors of Connecticut Inc
51 Broderick Road
Bristol, CT 06010
Facility's Phone: (860) 583-8017
U.S. EPA ID Number
CTD000604488

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON DOT REGULATED MATERIAL, (PURGEWATER)	002	DM	100	G	CR04	R015	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.U57442A
2 x 55

Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency, convenience or safety

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Agmt FOR Greg Lunn National Grid USA
Signature: Agmt For National Grid USA
Month: 09 Day: 24 Year: 21

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Greg Lunn
Signature:
Month: 09 Day: 24 Year: 21
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H070 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Janie Herd
Signature:
Month: 10 Day: 25 Year: 21

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.
Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM
RI 2104881043-001 PPW

Truck # 621134

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	RID007918774	1	(800) 483-3718	016984048 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN: Susan Brochu

Generator's Site Address (if different than mailing address)
642 Allens Avenue
Providence, RI 02905

6. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc.

U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors El Dorado LLC
309 American Circle
El Dorado, AR 71730
Facility's Phone: (870) 863-7173

U.S. EPA ID Number
ARD069748192

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON DOT REGULATED MATERIAL, (PURGEWATER, OIL)	001	DM	45	G	R015
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.126781NAPLRI
LX5

Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency convenience or safety

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Greg Lunn Agent For Narragansett Electric Co.	Greg Lunn Agent For Narragansett Electric Co.	03	07	22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Greg Lunn	Greg Lunn	03	07	22
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
Linda Goodhue	Linda Goodhue	6	16	22

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

RI 2107687763-001 PPW

APPENDIX D

LABORATORY REPORTS

CERTIFICATE OF ANALYSIS

Sophia Narkiewicz
GZA GeoEnvironmental, Inc.
188 Valley Street
Providence, RI 02909

RE: 642 Allens Ave (03.0033554.64)
ESS Laboratory Work Order Number: 21K0755

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:32 pm, Nov 23, 2021

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

SAMPLE RECEIPT

The following samples were received on November 16, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21K0755-01	GZ-500D	Ground Water	8260B
21K0755-02	GZ-500S	Ground Water	8260B
21K0755-03	GZ-501S	Ground Water	8260B
21K0755-04	GZ-502S	Ground Water	8260B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-500D
Date Sampled: 11/16/21 14:28
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,1,1-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,1,2,2-Tetrachloroethane	ND (0.0005)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,1,2-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,1-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,1-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,1-Dichloropropene	ND (0.0020)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2,3-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2,3-Trichloropropane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2,4-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2,4-Trimethylbenzene	**0.0092** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2-Dibromo-3-Chloropropane	ND (0.0050)	0.0010	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2-Dibromoethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,2-Dichloropropane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,3,5-Trimethylbenzene	**0.0030** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,3-Dichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,3-Dichloropropane	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,4-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
1,4-Dioxane - Screen	ND (0.500)	0.190	8260B		1	11/17/21 18:49	D1K0396	DK11728
1-Chlorohexane	ND (0.0010)	0.0004	8260B		1	11/17/21 18:49	D1K0396	DK11728
2,2-Dichloropropane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
2-Butanone	ND (0.0100)	0.0034	8260B		1	11/17/21 18:49	D1K0396	DK11728
2-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
2-Hexanone	ND (0.0100)	0.0015	8260B		1	11/17/21 18:49	D1K0396	DK11728
4-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
4-Isopropyltoluene	**J 0.0009** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
4-Methyl-2-Pentanone	ND (0.0100)	0.0016	8260B		1	11/17/21 18:49	D1K0396	DK11728
Acetone	ND (0.0100)	0.0027	8260B		1	11/17/21 18:49	D1K0396	DK11728
Benzene	**0.0070** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Bromobenzene	ND (0.0020)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-500D
Date Sampled: 11/16/21 14:28
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
Bromodichloromethane	ND (0.0006)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Bromoform	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Bromomethane	ND (0.0020)	0.0004	8260B		1	11/17/21 18:49	D1K0396	DK11728
Carbon Disulfide	**J 0.0003** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Carbon Tetrachloride	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Chlorobenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Chloroethane	ND (0.0020)	0.0004	8260B		1	11/17/21 18:49	D1K0396	DK11728
Chloroform	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Chloromethane	ND (0.0020)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
cis-1,2-Dichloroethene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
cis-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Dibromochloromethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Dibromomethane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
Dichlorodifluoromethane	ND (0.0020)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
Diethyl Ether	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
Di-isopropyl ether	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Ethyl tertiary-butyl ether	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Ethylbenzene	**0.0027** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Hexachlorobutadiene	ND (0.0006)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Hexachloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Isopropylbenzene	**0.0023** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Methyl tert-Butyl Ether	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
Methylene Chloride	ND (0.0020)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Naphthalene	**0.0785** (0.0100)	0.0020	8260B		10	11/19/21 15:07	D1K0396	DK11728
n-Butylbenzene	**J 0.0006** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
n-Propylbenzene	**J 0.0008** (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
sec-Butylbenzene	**J 0.0002** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Styrene	**J 0.0002** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
tert-Butylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Tertiary-amyl methyl ether	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Tetrachloroethene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-500D
Date Sampled: 11/16/21 14:28
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)	0.0016	8260B		1	11/17/21 18:49	D1K0396	DK11728
Toluene	**J 0.0007** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
trans-1,2-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/17/21 18:49	D1K0396	DK11728
trans-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Trichloroethene	**J 0.0004** (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Trichlorofluoromethane	ND (0.0010)	0.0004	8260B		1	11/17/21 18:49	D1K0396	DK11728
Vinyl Acetate	ND (0.0050)	0.0005	8260B		1	11/17/21 18:49	D1K0396	DK11728
Vinyl Chloride	ND (0.0010)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Xylene O	**0.0036** (0.0010)	0.0001	8260B		1	11/17/21 18:49	D1K0396	DK11728
Xylene P,M	**0.0024** (0.0020)	0.0002	8260B		1	11/17/21 18:49	D1K0396	DK11728
Xylenes (Total)	**0.00605** (0.00200)		8260B		1	11/17/21 18:49		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-500S
Date Sampled: 11/16/21 15:02
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,1,1-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,1,2,2-Tetrachloroethane	ND (0.0005)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,1,2-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,1-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,1-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,1-Dichloropropene	ND (0.0020)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2,3-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2,3-Trichloropropane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2,4-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2,4-Trimethylbenzene	**J 0.0008** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2-Dibromo-3-Chloropropane	ND (0.0050)	0.0010	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2-Dibromoethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,2-Dichloropropane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,3,5-Trimethylbenzene	**J 0.0001** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,3-Dichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,3-Dichloropropane	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,4-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
1,4-Dioxane - Screen	ND (0.500)	0.190	8260B		1	11/19/21 13:21	D1K0465	DK11939
1-Chlorohexane	ND (0.0010)	0.0004	8260B		1	11/19/21 13:21	D1K0465	DK11939
2,2-Dichloropropane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
2-Butanone	ND (0.0100)	0.0034	8260B		1	11/19/21 13:21	D1K0465	DK11939
2-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
2-Hexanone	ND (0.0100)	0.0015	8260B		1	11/19/21 13:21	D1K0465	DK11939
4-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
4-Isopropyltoluene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
4-Methyl-2-Pentanone	ND (0.0100)	0.0016	8260B		1	11/19/21 13:21	D1K0465	DK11939
Acetone	ND (0.0100)	0.0027	8260B		1	11/19/21 13:21	D1K0465	DK11939
Benzene	**0.0036** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Bromobenzene	ND (0.0020)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-500S
Date Sampled: 11/16/21 15:02
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
Bromodichloromethane	ND (0.0006)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Bromoform	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Bromomethane	ND (0.0020)	0.0004	8260B		1	11/19/21 13:21	D1K0465	DK11939
Carbon Disulfide	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Carbon Tetrachloride	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Chlorobenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Chloroethane	ND (0.0020)	0.0004	8260B		1	11/19/21 13:21	D1K0465	DK11939
Chloroform	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Chloromethane	ND (0.0020)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
cis-1,2-Dichloroethene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
cis-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Dibromochloromethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Dibromomethane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
Dichlorodifluoromethane	ND (0.0020)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
Diethyl Ether	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
Di-isopropyl ether	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Ethyl tertiary-butyl ether	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Ethylbenzene	**J 0.0008** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Hexachlorobutadiene	ND (0.0006)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Hexachloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Isopropylbenzene	**0.0034** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Methyl tert-Butyl Ether	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
Methylene Chloride	ND (0.0020)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Naphthalene	**0.0129** (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
n-Butylbenzene	**J 0.0006** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
n-Propylbenzene	**0.0010** (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
sec-Butylbenzene	**J 0.0006** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Styrene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
tert-Butylbenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Tertiary-amyl methyl ether	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Tetrachloroethene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-500S
Date Sampled: 11/16/21 15:02
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)	0.0016	8260B		1	11/19/21 13:21	D1K0465	DK11939
Toluene	**J 0.0002** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
trans-1,2-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/19/21 13:21	D1K0465	DK11939
trans-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Trichloroethene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Trichlorofluoromethane	ND (0.0010)	0.0004	8260B		1	11/19/21 13:21	D1K0465	DK11939
Vinyl Acetate	ND (0.0050)	0.0005	8260B		1	11/19/21 13:21	D1K0465	DK11939
Vinyl Chloride	ND (0.0010)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Xylene O	**0.0011** (0.0010)	0.0001	8260B		1	11/19/21 13:21	D1K0465	DK11939
Xylene P,M	ND (0.0020)	0.0002	8260B		1	11/19/21 13:21	D1K0465	DK11939
Xylenes (Total)	ND (0.00200)		8260B		1	11/19/21 13:21		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*99 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-501S
Date Sampled: 11/16/21 15:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,1,1-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,1,2,2-Tetrachloroethane	ND (0.0005)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,1,2-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,1-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,1-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,1-Dichloropropene	ND (0.0020)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2,3-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2,3-Trichloropropane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2,4-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2,4-Trimethylbenzene	**J 0.0003** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2-Dibromo-3-Chloropropane	ND (0.0050)	0.0010	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2-Dibromoethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,2-Dichloropropane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,3,5-Trimethylbenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,3-Dichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,3-Dichloropropane	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,4-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
1,4-Dioxane - Screen	ND (0.500)	0.190	8260B		1	11/19/21 13:48	D1K0465	DK11939
1-Chlorohexane	ND (0.0010)	0.0004	8260B		1	11/19/21 13:48	D1K0465	DK11939
2,2-Dichloropropane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
2-Butanone	ND (0.0100)	0.0034	8260B		1	11/19/21 13:48	D1K0465	DK11939
2-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
2-Hexanone	ND (0.0100)	0.0015	8260B		1	11/19/21 13:48	D1K0465	DK11939
4-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
4-Isopropyltoluene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
4-Methyl-2-Pentanone	ND (0.0100)	0.0016	8260B		1	11/19/21 13:48	D1K0465	DK11939
Acetone	ND (0.0100)	0.0027	8260B		1	11/19/21 13:48	D1K0465	DK11939
Benzene	**0.0074** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Bromobenzene	ND (0.0020)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-501S
Date Sampled: 11/16/21 15:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
Bromodichloromethane	ND (0.0006)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Bromoform	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Bromomethane	ND (0.0020)	0.0004	8260B		1	11/19/21 13:48	D1K0465	DK11939
Carbon Disulfide	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Carbon Tetrachloride	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Chlorobenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Chloroethane	ND (0.0020)	0.0004	8260B		1	11/19/21 13:48	D1K0465	DK11939
Chloroform	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Chloromethane	ND (0.0020)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
cis-1,2-Dichloroethene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
cis-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Dibromochloromethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Dibromomethane	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
Dichlorodifluoromethane	ND (0.0020)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
Diethyl Ether	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
Di-isopropyl ether	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Ethyl tertiary-butyl ether	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Ethylbenzene	**J 0.0005** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Hexachlorobutadiene	ND (0.0006)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Hexachloroethane	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Isopropylbenzene	**0.0034** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Methyl tert-Butyl Ether	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
Methylene Chloride	ND (0.0020)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Naphthalene	**0.0024** (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
n-Butylbenzene	**J 0.0005** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
n-Propylbenzene	**J 0.0005** (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
sec-Butylbenzene	**J 0.0003** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Styrene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
tert-Butylbenzene	ND (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Tertiary-amyl methyl ether	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Tetrachloroethene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-501S
Date Sampled: 11/16/21 15:38
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)	0.0016	8260B		1	11/19/21 13:48	D1K0465	DK11939
Toluene	**J 0.0004** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
trans-1,2-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/19/21 13:48	D1K0465	DK11939
trans-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Trichloroethene	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Trichlorofluoromethane	ND (0.0010)	0.0004	8260B		1	11/19/21 13:48	D1K0465	DK11939
Vinyl Acetate	ND (0.0050)	0.0005	8260B		1	11/19/21 13:48	D1K0465	DK11939
Vinyl Chloride	ND (0.0010)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Xylene O	**0.0018** (0.0010)	0.0001	8260B		1	11/19/21 13:48	D1K0465	DK11939
Xylene P,M	**J 0.0005** (0.0020)	0.0002	8260B		1	11/19/21 13:48	D1K0465	DK11939
Xylenes (Total)	**0.00231** (0.00200)		8260B		1	11/19/21 13:48		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*102 %*		*70-130*
Surrogate: Dibromofluoromethane	*103 %*		*70-130*
Surrogate: Toluene-d8	*100 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-502S
Date Sampled: 11/16/21 16:21
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,1,1-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,1,2,2-Tetrachloroethane	ND (0.0005)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,1,2-Trichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,1-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,1-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,1-Dichloropropene	ND (0.0020)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2,3-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2,3-Trichloropropane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2,4-Trichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2,4-Trimethylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2-Dibromo-3-Chloropropane	ND (0.0050)	0.0010	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2-Dibromoethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2-Dichloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,2-Dichloropropane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,3,5-Trimethylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,3-Dichlorobenzene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,3-Dichloropropane	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,4-Dichlorobenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
1,4-Dioxane - Screen	ND (0.500)	0.190	8260B		1	11/17/21 18:23	D1K0396	DK11728
1-Chlorohexane	ND (0.0010)	0.0004	8260B		1	11/17/21 18:23	D1K0396	DK11728
2,2-Dichloropropane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
2-Butanone	ND (0.0100)	0.0034	8260B		1	11/17/21 18:23	D1K0396	DK11728
2-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
2-Hexanone	ND (0.0100)	0.0015	8260B		1	11/17/21 18:23	D1K0396	DK11728
4-Chlorotoluene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
4-Isopropyltoluene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
4-Methyl-2-Pentanone	ND (0.0100)	0.0016	8260B		1	11/17/21 18:23	D1K0396	DK11728
Acetone	ND (0.0100)	0.0027	8260B		1	11/17/21 18:23	D1K0396	DK11728
Benzene	**J 0.0001** (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Bromobenzene	ND (0.0020)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-502S
Date Sampled: 11/16/21 16:21
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
Bromodichloromethane	ND (0.0006)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Bromoform	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Bromomethane	ND (0.0020)	0.0004	8260B		1	11/17/21 18:23	D1K0396	DK11728
Carbon Disulfide	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Carbon Tetrachloride	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Chlorobenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Chloroethane	ND (0.0020)	0.0004	8260B		1	11/17/21 18:23	D1K0396	DK11728
Chloroform	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Chloromethane	ND (0.0020)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
cis-1,2-Dichloroethene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
cis-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Dibromochloromethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Dibromomethane	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
Dichlorodifluoromethane	ND (0.0020)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
Diethyl Ether	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
Di-isopropyl ether	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Ethyl tertiary-butyl ether	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Ethylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Hexachlorobutadiene	ND (0.0006)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Hexachloroethane	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Isopropylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Methyl tert-Butyl Ether	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
Methylene Chloride	ND (0.0020)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Naphthalene	**J 0.0004** (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
n-Butylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
n-Propylbenzene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
sec-Butylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Styrene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
tert-Butylbenzene	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Tertiary-amyl methyl ether	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Tetrachloroethene	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-502S
Date Sampled: 11/16/21 16:21
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0755
ESS Laboratory Sample ID: 21K0755-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)	0.0016	8260B		1	11/17/21 18:23	D1K0396	DK11728
Toluene	**J 0.0001** (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
trans-1,2-Dichloroethene	ND (0.0010)	0.0003	8260B		1	11/17/21 18:23	D1K0396	DK11728
trans-1,3-Dichloropropene	ND (0.0004)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Trichloroethene	**J 0.0005** (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Trichlorofluoromethane	ND (0.0010)	0.0004	8260B		1	11/17/21 18:23	D1K0396	DK11728
Vinyl Acetate	ND (0.0050)	0.0005	8260B		1	11/17/21 18:23	D1K0396	DK11728
Vinyl Chloride	ND (0.0010)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Xylene O	ND (0.0010)	0.0001	8260B		1	11/17/21 18:23	D1K0396	DK11728
Xylene P,M	ND (0.0020)	0.0002	8260B		1	11/17/21 18:23	D1K0396	DK11728
Xylenes (Total)	ND (0.00200)		8260B		1	11/17/21 18:23		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*99 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11728 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0100	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11728 - 5030B										
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0256*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0254*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0244*		mg/L	*0.02500*		*98*	*70-130*			
Surrogate: Toluene-d8	*0.0243*		mg/L	*0.02500*		*97*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,1,1-Trichloroethane	0.0103	0.0010	mg/L	0.01000		103	70-130			
1,1,2,2-Tetrachloroethane	0.0098	0.0005	mg/L	0.01000		98	70-130			
1,1,2-Trichloroethane	0.0095	0.0010	mg/L	0.01000		95	70-130			
1,1-Dichloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
1,1-Dichloroethene	0.0110	0.0010	mg/L	0.01000		110	70-130			
1,1-Dichloropropene	0.0108	0.0020	mg/L	0.01000		108	70-130			
1,2,3-Trichlorobenzene	0.0114	0.0010	mg/L	0.01000		114	70-130			
1,2,3-Trichloropropane	0.0103	0.0010	mg/L	0.01000		103	70-130			
1,2,4-Trichlorobenzene	0.0107	0.0010	mg/L	0.01000		107	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11728 - 5030B										
1,2,4-Trimethylbenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			
1,2-Dibromo-3-Chloropropane	0.0100	0.0050	mg/L	0.01000		100	70-130			
1,2-Dibromoethane	0.0104	0.0010	mg/L	0.01000		104	70-130			
1,2-Dichlorobenzene	0.0105	0.0010	mg/L	0.01000		105	70-130			
1,2-Dichloroethane	0.0099	0.0010	mg/L	0.01000		99	70-130			
1,2-Dichloropropane	0.0098	0.0010	mg/L	0.01000		98	70-130			
1,3,5-Trimethylbenzene	0.0106	0.0010	mg/L	0.01000		106	70-130			
1,3-Dichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,3-Dichloropropane	0.0106	0.0010	mg/L	0.01000		106	70-130			
1,4-Dichlorobenzene	0.0107	0.0010	mg/L	0.01000		107	70-130			
1,4-Dioxane - Screen	0.353	0.500	mg/L	0.2000		176	0-332			J
1-Chlorohexane	0.0098	0.0010	mg/L	0.01000		98	70-130			
2,2-Dichloropropane	0.0103	0.0010	mg/L	0.01000		103	70-130			
2-Butanone	0.0506	0.0100	mg/L	0.05000		101	70-130			
2-Chlorotoluene	0.0105	0.0010	mg/L	0.01000		105	70-130			
2-Hexanone	0.0498	0.0100	mg/L	0.05000		100	70-130			
4-Chlorotoluene	0.0106	0.0010	mg/L	0.01000		106	70-130			
4-Isopropyltoluene	0.0100	0.0010	mg/L	0.01000		100	70-130			
4-Methyl-2-Pentanone	0.0500	0.0100	mg/L	0.05000		100	70-130			
Acetone	0.0468	0.0100	mg/L	0.05000		94	70-130			
Benzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
Bromobenzene	0.0103	0.0020	mg/L	0.01000		103	70-130			
Bromochloromethane	0.0095	0.0010	mg/L	0.01000		95	70-130			
Bromodichloromethane	0.0106	0.0006	mg/L	0.01000		106	70-130			
Bromoform	0.0102	0.0010	mg/L	0.01000		102	70-130			
Bromomethane	0.0098	0.0020	mg/L	0.01000		98	70-130			
Carbon Disulfide	0.0108	0.0010	mg/L	0.01000		108	70-130			
Carbon Tetrachloride	0.0101	0.0010	mg/L	0.01000		101	70-130			
Chlorobenzene	0.0107	0.0010	mg/L	0.01000		107	70-130			
Chloroethane	0.0107	0.0020	mg/L	0.01000		107	70-130			
Chloroform	0.0103	0.0010	mg/L	0.01000		103	70-130			
Chloromethane	0.0094	0.0020	mg/L	0.01000		94	70-130			
cis-1,2-Dichloroethene	0.0105	0.0010	mg/L	0.01000		105	70-130			
cis-1,3-Dichloropropene	0.0104	0.0004	mg/L	0.01000		104	70-130			
Dibromochloromethane	0.0110	0.0010	mg/L	0.01000		110	70-130			
Dibromomethane	0.0104	0.0010	mg/L	0.01000		104	70-130			
Dichlorodifluoromethane	0.0092	0.0020	mg/L	0.01000		92	70-130			
Diethyl Ether	0.0104	0.0010	mg/L	0.01000		104	70-130			
Di-isopropyl ether	0.0098	0.0010	mg/L	0.01000		98	70-130			
Ethyl tertiary-butyl ether	0.0103	0.0010	mg/L	0.01000		103	70-130			
Ethylbenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
Hexachlorobutadiene	0.0119	0.0006	mg/L	0.01000		119	70-130			
Hexachloroethane	0.0106	0.0010	mg/L	0.01000		106	70-130			
Isopropylbenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			
Methyl tert-Butyl Ether	0.0102	0.0010	mg/L	0.01000		102	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11728 - 5030B										
Methylene Chloride	0.0104	0.0020	mg/L	0.01000		104	70-130			
Naphthalene	0.0107	0.0010	mg/L	0.01000		107	70-130			
n-Butylbenzene	0.0107	0.0010	mg/L	0.01000		107	70-130			
n-Propylbenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			
sec-Butylbenzene	0.0104	0.0010	mg/L	0.01000		104	70-130			
Styrene	0.0103	0.0010	mg/L	0.01000		103	70-130			
tert-Butylbenzene	0.0106	0.0010	mg/L	0.01000		106	70-130			
Tertiary-amyl methyl ether	0.0102	0.0010	mg/L	0.01000		102	70-130			
Tetrachloroethene	0.0075	0.0010	mg/L	0.01000		75	70-130			
Tetrahydrofuran	0.0112	0.0050	mg/L	0.01000		112	70-130			
Toluene	0.0104	0.0010	mg/L	0.01000		104	70-130			
trans-1,2-Dichloroethene	0.0105	0.0010	mg/L	0.01000		105	70-130			
trans-1,3-Dichloropropene	0.0097	0.0004	mg/L	0.01000		97	70-130			
Trichloroethene	0.0100	0.0010	mg/L	0.01000		100	70-130			
Trichlorofluoromethane	0.0106	0.0010	mg/L	0.01000		106	70-130			
Vinyl Acetate	0.0117	0.0050	mg/L	0.01000		117	70-130			
Vinyl Chloride	0.0099	0.0010	mg/L	0.01000		99	70-130			
Xylene O	0.0100	0.0010	mg/L	0.01000		100	70-130			
Xylene P,M	0.0208	0.0020	mg/L	0.02000		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0247*		mg/L	*0.02500*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0256*		mg/L	*0.02500*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0250*		mg/L	*0.02500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.0256*		mg/L	*0.02500*		*103*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130	1	25	
1,1,1-Trichloroethane	0.0106	0.0010	mg/L	0.01000		106	70-130	3	25	
1,1,2,2-Tetrachloroethane	0.0096	0.0005	mg/L	0.01000		96	70-130	2	25	
1,1,2-Trichloroethane	0.0097	0.0010	mg/L	0.01000		97	70-130	2	25	
1,1-Dichloroethane	0.0106	0.0010	mg/L	0.01000		106	70-130	5	25	
1,1-Dichloroethene	0.0114	0.0010	mg/L	0.01000		114	70-130	3	25	
1,1-Dichloropropene	0.0105	0.0020	mg/L	0.01000		105	70-130	3	25	
1,2,3-Trichlorobenzene	0.0106	0.0010	mg/L	0.01000		106	70-130	8	25	
1,2,3-Trichloropropane	0.0101	0.0010	mg/L	0.01000		101	70-130	2	25	
1,2,4-Trichlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130	4	25	
1,2,4-Trimethylbenzene	0.0101	0.0010	mg/L	0.01000		101	70-130	2	25	
1,2-Dibromo-3-Chloropropane	0.0089	0.0050	mg/L	0.01000		89	70-130	11	25	
1,2-Dibromoethane	0.0103	0.0010	mg/L	0.01000		103	70-130	0.1	25	
1,2-Dichlorobenzene	0.0104	0.0010	mg/L	0.01000		104	70-130	1	25	
1,2-Dichloroethane	0.0100	0.0010	mg/L	0.01000		100	70-130	1	25	
1,2-Dichloropropane	0.0102	0.0010	mg/L	0.01000		102	70-130	4	25	
1,3,5-Trimethylbenzene	0.0108	0.0010	mg/L	0.01000		108	70-130	2	25	
1,3-Dichlorobenzene	0.0104	0.0010	mg/L	0.01000		104	70-130	2	25	
1,3-Dichloropropane	0.0107	0.0010	mg/L	0.01000		107	70-130	1	25	
1,4-Dichlorobenzene	0.0106	0.0010	mg/L	0.01000		106	70-130	1	25	
1,4-Dioxane - Screen	0.327	0.500	mg/L	0.2000		163	0-332	8	200	J

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

8260B Volatile Organic Compounds

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch DK11728 - 5030B										
1-Chlorohexane	0.0099	0.0010	mg/L	0.01000		99	70-130	2	25	
2,2-Dichloropropane	0.0107	0.0010	mg/L	0.01000		107	70-130	3	25	
2-Butanone	0.0499	0.0100	mg/L	0.05000		100	70-130	1	25	
2-Chlorotoluene	0.0102	0.0010	mg/L	0.01000		102	70-130	3	25	
2-Hexanone	0.0488	0.0100	mg/L	0.05000		98	70-130	2	25	
4-Chlorotoluene	0.0102	0.0010	mg/L	0.01000		102	70-130	5	25	
4-Isopropyltoluene	0.0104	0.0010	mg/L	0.01000		104	70-130	4	25	
4-Methyl-2-Pentanone	0.0516	0.0100	mg/L	0.05000		103	70-130	3	25	
Acetone	0.0463	0.0100	mg/L	0.05000		93	70-130	1	25	
Benzene	0.0106	0.0010	mg/L	0.01000		106	70-130	4	25	
Bromobenzene	0.0106	0.0020	mg/L	0.01000		106	70-130	3	25	
Bromochloromethane	0.0103	0.0010	mg/L	0.01000		103	70-130	8	25	
Bromodichloromethane	0.0107	0.0006	mg/L	0.01000		107	70-130	1	25	
Bromoform	0.0106	0.0010	mg/L	0.01000		106	70-130	3	25	
Bromomethane	0.0099	0.0020	mg/L	0.01000		99	70-130	2	25	
Carbon Disulfide	0.0108	0.0010	mg/L	0.01000		108	70-130	0.6	25	
Carbon Tetrachloride	0.0104	0.0010	mg/L	0.01000		104	70-130	3	25	
Chlorobenzene	0.0108	0.0010	mg/L	0.01000		108	70-130	0.9	25	
Chloroethane	0.0106	0.0020	mg/L	0.01000		106	70-130	1	25	
Chloroform	0.0106	0.0010	mg/L	0.01000		106	70-130	3	25	
Chloromethane	0.0097	0.0020	mg/L	0.01000		97	70-130	3	25	
cis-1,2-Dichloroethene	0.0105	0.0010	mg/L	0.01000		105	70-130	0	25	
cis-1,3-Dichloropropene	0.0106	0.0004	mg/L	0.01000		106	70-130	2	25	
Dibromochloromethane	0.0109	0.0010	mg/L	0.01000		109	70-130	0.8	25	
Dibromomethane	0.0104	0.0010	mg/L	0.01000		104	70-130	0.2	25	
Dichlorodifluoromethane	0.0092	0.0020	mg/L	0.01000		92	70-130	0.2	25	
Diethyl Ether	0.0105	0.0010	mg/L	0.01000		105	70-130	1	25	
Di-isopropyl ether	0.0100	0.0010	mg/L	0.01000		100	70-130	2	25	
Ethyl tertiary-butyl ether	0.0102	0.0010	mg/L	0.01000		102	70-130	1	25	
Ethylbenzene	0.0102	0.0010	mg/L	0.01000		102	70-130	0.7	25	
Hexachlorobutadiene	0.0119	0.0006	mg/L	0.01000		119	70-130	0.3	25	
Hexachloroethane	0.0107	0.0010	mg/L	0.01000		107	70-130	0.8	25	
Isopropylbenzene	0.0104	0.0010	mg/L	0.01000		104	70-130	1	25	
Methyl tert-Butyl Ether	0.0104	0.0010	mg/L	0.01000		104	70-130	2	25	
Methylene Chloride	0.0109	0.0020	mg/L	0.01000		109	70-130	4	25	
Naphthalene	0.0103	0.0010	mg/L	0.01000		103	70-130	4	25	
n-Butylbenzene	0.0103	0.0010	mg/L	0.01000		103	70-130	4	25	
n-Propylbenzene	0.0103	0.0010	mg/L	0.01000		103	70-130	0.5	25	
sec-Butylbenzene	0.0103	0.0010	mg/L	0.01000		103	70-130	0.8	25	
Styrene	0.0105	0.0010	mg/L	0.01000		105	70-130	2	25	
tert-Butylbenzene	0.0108	0.0010	mg/L	0.01000		108	70-130	2	25	
Tertiary-amyl methyl ether	0.0101	0.0010	mg/L	0.01000		101	70-130	0.8	25	
Tetrachloroethene	0.0072	0.0010	mg/L	0.01000		72	70-130	4	25	
Tetrahydrofuran	0.0105	0.0050	mg/L	0.01000		105	70-130	7	25	
Toluene	0.0106	0.0010	mg/L	0.01000		106	70-130	2	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11728 - 5030B										
trans-1,2-Dichloroethene	0.0106	0.0010	mg/L	0.01000		106	70-130	0.4	25	
trans-1,3-Dichloropropene	0.0100	0.0004	mg/L	0.01000		100	70-130	3	25	
Trichloroethene	0.0098	0.0010	mg/L	0.01000		98	70-130	2	25	
Trichlorofluoromethane	0.0105	0.0010	mg/L	0.01000		105	70-130	0.9	25	
Vinyl Acetate	0.0115	0.0050	mg/L	0.01000		115	70-130	2	25	
Vinyl Chloride	0.0106	0.0010	mg/L	0.01000		106	70-130	7	25	
Xylene O	0.0103	0.0010	mg/L	0.01000		103	70-130	3	25	
Xylene P,M	0.0209	0.0020	mg/L	0.02000		104	70-130	0.3	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0256*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0251*		mg/L	*0.02500*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0252*		mg/L	*0.02500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.0252*		mg/L	*0.02500*		*101*	*70-130*			
Batch DK11939 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0100	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11939 - 5030B										
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0255*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0247*		mg/L	*0.02500*		*99*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
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ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11939 - 5030B										
Surrogate: Dibromofluoromethane	*0.0257*		mg/L	*0.02500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.0244*		mg/L	*0.02500*		*98*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0094	0.0010	mg/L	0.01000		94	70-130			
1,1,1-Trichloroethane	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,1,2,2-Tetrachloroethane	0.0095	0.0005	mg/L	0.01000		95	70-130			
1,1,2-Trichloroethane	0.0095	0.0010	mg/L	0.01000		95	70-130			
1,1-Dichloroethane	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,1-Dichloroethene	0.0104	0.0010	mg/L	0.01000		104	70-130			
1,1-Dichloropropene	0.0102	0.0020	mg/L	0.01000		102	70-130			
1,2,3-Trichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,2,3-Trichloropropane	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,2,4-Trichlorobenzene	0.0099	0.0010	mg/L	0.01000		99	70-130			
1,2,4-Trimethylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0089	0.0050	mg/L	0.01000		89	70-130			
1,2-Dibromoethane	0.0097	0.0010	mg/L	0.01000		97	70-130			
1,2-Dichlorobenzene	0.0098	0.0010	mg/L	0.01000		98	70-130			
1,2-Dichloroethane	0.0099	0.0010	mg/L	0.01000		99	70-130			
1,2-Dichloropropane	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,3,5-Trimethylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,3-Dichlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			
1,3-Dichloropropane	0.0103	0.0010	mg/L	0.01000		103	70-130			
1,4-Dichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,4-Dioxane - Screen	0.390	0.500	mg/L	0.2000		195	0-332			J
1-Chlorohexane	0.0089	0.0010	mg/L	0.01000		89	70-130			
2,2-Dichloropropane	0.0106	0.0010	mg/L	0.01000		106	70-130			
2-Butanone	0.0553	0.0100	mg/L	0.05000		111	70-130			
2-Chlorotoluene	0.0099	0.0010	mg/L	0.01000		99	70-130			
2-Hexanone	0.0563	0.0100	mg/L	0.05000		113	70-130			
4-Chlorotoluene	0.0097	0.0010	mg/L	0.01000		97	70-130			
4-Isopropyltoluene	0.0098	0.0010	mg/L	0.01000		98	70-130			
4-Methyl-2-Pentanone	0.0534	0.0100	mg/L	0.05000		107	70-130			
Acetone	0.0619	0.0100	mg/L	0.05000		124	70-130			
Benzene	0.0101	0.0010	mg/L	0.01000		101	70-130			
Bromobenzene	0.0100	0.0020	mg/L	0.01000		100	70-130			
Bromochloromethane	0.0102	0.0010	mg/L	0.01000		102	70-130			
Bromodichloromethane	0.0104	0.0006	mg/L	0.01000		104	70-130			
Bromoform	0.0100	0.0010	mg/L	0.01000		100	70-130			
Bromomethane	0.0091	0.0020	mg/L	0.01000		91	70-130			
Carbon Disulfide	0.0106	0.0010	mg/L	0.01000		106	70-130			
Carbon Tetrachloride	0.0101	0.0010	mg/L	0.01000		101	70-130			
Chlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			
Chloroethane	0.0102	0.0020	mg/L	0.01000		102	70-130			
Chloroform	0.0103	0.0010	mg/L	0.01000		103	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11939 - 5030B										
Chloromethane	0.0095	0.0020	mg/L	0.01000		95	70-130			
cis-1,2-Dichloroethene	0.0103	0.0010	mg/L	0.01000		103	70-130			
cis-1,3-Dichloropropene	0.0104	0.0004	mg/L	0.01000		104	70-130			
Dibromochloromethane	0.0103	0.0010	mg/L	0.01000		103	70-130			
Dibromomethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
Dichlorodifluoromethane	0.0084	0.0020	mg/L	0.01000		84	70-130			
Diethyl Ether	0.0101	0.0010	mg/L	0.01000		101	70-130			
Di-isopropyl ether	0.0099	0.0010	mg/L	0.01000		99	70-130			
Ethyl tertiary-butyl ether	0.0100	0.0010	mg/L	0.01000		100	70-130			
Ethylbenzene	0.0096	0.0010	mg/L	0.01000		96	70-130			
Hexachlorobutadiene	0.0118	0.0006	mg/L	0.01000		118	70-130			
Hexachloroethane	0.0104	0.0010	mg/L	0.01000		104	70-130			
Isopropylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130			
Methyl tert-Butyl Ether	0.0101	0.0010	mg/L	0.01000		101	70-130			
Methylene Chloride	0.0101	0.0020	mg/L	0.01000		101	70-130			
Naphthalene	0.0098	0.0010	mg/L	0.01000		98	70-130			
n-Butylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130			
n-Propylbenzene	0.0097	0.0010	mg/L	0.01000		97	70-130			
sec-Butylbenzene	0.0094	0.0010	mg/L	0.01000		94	70-130			
Styrene	0.0097	0.0010	mg/L	0.01000		97	70-130			
tert-Butylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130			
Tertiary-amyl methyl ether	0.0099	0.0010	mg/L	0.01000		99	70-130			
Tetrachloroethene	0.0088	0.0010	mg/L	0.01000		88	70-130			
Tetrahydrofuran	0.0099	0.0050	mg/L	0.01000		99	70-130			
Toluene	0.0104	0.0010	mg/L	0.01000		104	70-130			
trans-1,2-Dichloroethene	0.0099	0.0010	mg/L	0.01000		99	70-130			
trans-1,3-Dichloropropene	0.0100	0.0004	mg/L	0.01000		100	70-130			
Trichloroethene	0.0097	0.0010	mg/L	0.01000		97	70-130			
Trichlorofluoromethane	0.0100	0.0010	mg/L	0.01000		100	70-130			
Vinyl Acetate	0.0105	0.0050	mg/L	0.01000		105	70-130			
Vinyl Chloride	0.0094	0.0010	mg/L	0.01000		94	70-130			
Xylene O	0.0100	0.0010	mg/L	0.01000		100	70-130			
Xylene P,M	0.0201	0.0020	mg/L	0.02000		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0258*		mg/L	*0.02500*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0251*		mg/L	*0.02500*		*100*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0258*		mg/L	*0.02500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.0245*		mg/L	*0.02500*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0097	0.0010	mg/L	0.01000		97	70-130	3	25	
1,1,1-Trichloroethane	0.0100	0.0010	mg/L	0.01000		100	70-130	0.1	25	
1,1,2,2-Tetrachloroethane	0.0096	0.0005	mg/L	0.01000		96	70-130	1	25	
1,1,2-Trichloroethane	0.0094	0.0010	mg/L	0.01000		94	70-130	0.8	25	
1,1-Dichloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130	0.8	25	
1,1-Dichloroethene	0.0108	0.0010	mg/L	0.01000		108	70-130	3	25	
1,1-Dichloropropene	0.0105	0.0020	mg/L	0.01000		105	70-130	3	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11939 - 5030B										
1,2,3-Trichlorobenzene	0.0101	0.0010	mg/L	0.01000		101	70-130	0.7	25	
1,2,3-Trichloropropane	0.0099	0.0010	mg/L	0.01000		99	70-130	0.9	25	
1,2,4-Trichlorobenzene	0.0099	0.0010	mg/L	0.01000		99	70-130	0.6	25	
1,2,4-Trimethylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130	0.5	25	
1,2-Dibromo-3-Chloropropane	0.0084	0.0050	mg/L	0.01000		84	70-130	6	25	
1,2-Dibromoethane	0.0097	0.0010	mg/L	0.01000		97	70-130	0.3	25	
1,2-Dichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130	5	25	
1,2-Dichloroethane	0.0099	0.0010	mg/L	0.01000		99	70-130	0.6	25	
1,2-Dichloropropane	0.0101	0.0010	mg/L	0.01000		101	70-130	2	25	
1,3,5-Trimethylbenzene	0.0104	0.0010	mg/L	0.01000		104	70-130	4	25	
1,3-Dichlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130	0.5	25	
1,3-Dichloropropane	0.0103	0.0010	mg/L	0.01000		103	70-130	0.1	25	
1,4-Dichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130	0.2	25	
1,4-Dioxane - Screen	0.292	0.500	mg/L	0.2000		146	0-332	29	200	J
1-Chlorohexane	0.0091	0.0010	mg/L	0.01000		91	70-130	3	25	
2,2-Dichloropropane	0.0100	0.0010	mg/L	0.01000		100	70-130	6	25	
2-Butanone	0.0532	0.0100	mg/L	0.05000		106	70-130	4	25	
2-Chlorotoluene	0.0098	0.0010	mg/L	0.01000		98	70-130	1	25	
2-Hexanone	0.0536	0.0100	mg/L	0.05000		107	70-130	5	25	
4-Chlorotoluene	0.0100	0.0010	mg/L	0.01000		100	70-130	2	25	
4-Isopropyltoluene	0.0098	0.0010	mg/L	0.01000		98	70-130	0.4	25	
4-Methyl-2-Pentanone	0.0514	0.0100	mg/L	0.05000		103	70-130	4	25	
Acetone	0.0552	0.0100	mg/L	0.05000		110	70-130	11	25	
Benzene	0.0102	0.0010	mg/L	0.01000		102	70-130	1	25	
Bromobenzene	0.0101	0.0020	mg/L	0.01000		101	70-130	1	25	
Bromochloromethane	0.0098	0.0010	mg/L	0.01000		98	70-130	3	25	
Bromodichloromethane	0.0103	0.0006	mg/L	0.01000		103	70-130	1	25	
Bromoform	0.0097	0.0010	mg/L	0.01000		97	70-130	3	25	
Bromomethane	0.0093	0.0020	mg/L	0.01000		93	70-130	2	25	
Carbon Disulfide	0.0105	0.0010	mg/L	0.01000		105	70-130	0.8	25	
Carbon Tetrachloride	0.0103	0.0010	mg/L	0.01000		103	70-130	2	25	
Chlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130	0.5	25	
Chloroethane	0.0099	0.0020	mg/L	0.01000		99	70-130	3	25	
Chloroform	0.0100	0.0010	mg/L	0.01000		100	70-130	3	25	
Chloromethane	0.0088	0.0020	mg/L	0.01000		88	70-130	7	25	
cis-1,2-Dichloroethene	0.0104	0.0010	mg/L	0.01000		104	70-130	1	25	
cis-1,3-Dichloropropene	0.0103	0.0004	mg/L	0.01000		103	70-130	0.6	25	
Dibromochloromethane	0.0102	0.0010	mg/L	0.01000		102	70-130	1	25	
Dibromomethane	0.0103	0.0010	mg/L	0.01000		103	70-130	2	25	
Dichlorodifluoromethane	0.0081	0.0020	mg/L	0.01000		81	70-130	4	25	
Diethyl Ether	0.0105	0.0010	mg/L	0.01000		105	70-130	4	25	
Di-isopropyl ether	0.0101	0.0010	mg/L	0.01000		101	70-130	2	25	
Ethyl tertiary-butyl ether	0.0100	0.0010	mg/L	0.01000		100	70-130	0.8	25	
Ethylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130	4	25	
Hexachlorobutadiene	0.0115	0.0006	mg/L	0.01000		115	70-130	3	25	

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ESS Laboratory Work Order: 21K0755

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11939 - 5030B										
Hexachloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130	3	25	
Isopropylbenzene	0.0101	0.0010	mg/L	0.01000		101	70-130	2	25	
Methyl tert-Butyl Ether	0.0102	0.0010	mg/L	0.01000		102	70-130	0.8	25	
Methylene Chloride	0.0100	0.0020	mg/L	0.01000		100	70-130	1	25	
Naphthalene	0.0094	0.0010	mg/L	0.01000		94	70-130	4	25	
n-Butylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130	2	25	
n-Propylbenzene	0.0099	0.0010	mg/L	0.01000		99	70-130	2	25	
sec-Butylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130	4	25	
Styrene	0.0098	0.0010	mg/L	0.01000		98	70-130	1	25	
tert-Butylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130	0	25	
Tertiary-amyl methyl ether	0.0101	0.0010	mg/L	0.01000		101	70-130	2	25	
Tetrachloroethene	0.0088	0.0010	mg/L	0.01000		88	70-130	1	25	
Tetrahydrofuran	0.0100	0.0050	mg/L	0.01000		100	70-130	1	25	
Toluene	0.0101	0.0010	mg/L	0.01000		101	70-130	3	25	
trans-1,2-Dichloroethene	0.0104	0.0010	mg/L	0.01000		104	70-130	4	25	
trans-1,3-Dichloropropene	0.0098	0.0004	mg/L	0.01000		98	70-130	2	25	
Trichloroethene	0.0101	0.0010	mg/L	0.01000		101	70-130	4	25	
Trichlorofluoromethane	0.0101	0.0010	mg/L	0.01000		101	70-130	1	25	
Vinyl Acetate	0.0097	0.0050	mg/L	0.01000		97	70-130	8	25	
Vinyl Chloride	0.0100	0.0010	mg/L	0.01000		100	70-130	6	25	
Xylene O	0.0101	0.0010	mg/L	0.01000		101	70-130	0.4	25	
Xylene P,M	0.0203	0.0020	mg/L	0.02000		102	70-130	1	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0257*		mg/L	*0.02500*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0252*		mg/L	*0.02500*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0254*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.0248*		mg/L	*0.02500*		*99*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
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Notes and Definitions

U	Analyte included in the analysis, but not detected
J	Reported between MDL and MRL
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

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Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0755

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/KPB

Shipped/Delivered Via: ESS Courier

ESS Project ID: 21K0755
Date Received: 11/16/2021
Project Due Date: 11/23/2021
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 3.1 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
    ESS Sample IDs:
    Analysis:
    TAT:
12. Were VOAs received? Yes / No
    a. Air bubbles in aqueous VOAs? Yes / No
    b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? Yes / No
    a. If metals preserved upon receipt: Date: Time: By:
    b. Low Level VOA vials frozen: Date: Time: By:

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Date: Time: By:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	232110	Yes	No	Yes	VOA Vial	HCl	
1	232111	Yes	No	Yes	VOA Vial	HCl	
1	232112	Yes	~~No~~ Yes	Yes	VOA Vial	HCl	
2	232113	Yes	No	Yes	VOA Vial	HCl	
2	232114	Yes	No	Yes	VOA Vial	HCl	
2	232115	Yes	No	Yes	VOA Vial	HCl	
3	232116	Yes	No	Yes	VOA Vial	HCl	
3	232117	Yes	No	Yes	VOA Vial	HCl	
3	232118	Yes	No	Yes	VOA Vial	HCl	
4	232119	Yes	No	Yes	VOA Vial	HCl	
4	232120	Yes	No	Yes	VOA Vial	HCl	
4	232121	Yes	No	Yes	VOA Vial	HCl	

2nd Review
Were all containers scanned into storage/lab? Initials KL Yes / No
Are barcode labels on correct containers?
Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/KPB

ESS Project ID: 21K0755

Date Received: 11/16/2021

Are all Hex Chrome stickers attached? Yes / No / ~~NA~~

Are all QC stickers attached? ~~Yes~~ / No / NA

Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: [signature] Date & Time: 11/16/21 1757

Reviewed By: [signature] Date & Time: 11.16.21 1948

185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 21K0755 | Page 1 of

Turn Time: ☐ >5 ☑ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: RI Criteria:

Is this project for any of the following?: ☐ CT RCP ☐ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)
☑ Limit Checker ☐ State Forms ☐ EQuIS
☑ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☑ Other (Specify) → PDF

CLIENT INFORMATION

Client: GZA
Address: 155 Valley Street
Providence, RI
Phone: 401-421-4140
Email Distribution List: Sara.Haupt@gza.com
Sophia.Nerlewicz@gza.com
Elliot.Maker@gza.com

PROJECT INFORMATION

Project Name: 647 Allens Ave
Project Location: Providence RI
Project Number: 33554.01
Project Manager: Sara Haupt
Bill to: GZA
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOC
1	11/16/21	1425	Grab	Groundwater	62-502D	X
2	11/16/21	1503	Grab	Groundwater	62-502S	X
3	11/16/21	1538	Grab	Groundwater	62-501S	X
4	11/16/21	1621	Grab	Groundwater	62-503S	X

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial — ✓
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other* — 7
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by :

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only
Cooler Temperature (°C): 3.1 ice

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration ☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Elliot Maker	11/16/21	1654					
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)

CERTIFICATE OF ANALYSIS

Sara Haupt
GZA GeoEnvironmental, Inc.
188 Valley Street
Providence, RI 02909

RE: 642 Allens Ave (03.0033554.01 Task 3.01)
ESS Laboratory Work Order Number: 21K0832

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 6:07 pm, Nov 24, 2021

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

SAMPLE RECEIPT

The following samples were received on November 17, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21K0832-01	BD-01	Ground Water	8260B
21K0832-02	GZ-201	Ground Water	8260B
21K0832-03	RCA-36	Ground Water	8260B
21K0832-04	RCA-31	Ground Water	8260B
21K0832-05	GZ-319D	Ground Water	8260B
21K0832-06	UHB-20	Ground Water	8260B
21K0832-07	RCA-22	Ground Water	8260B
21K0832-08	TB-01	Aqueous	8260B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

PROJECT NARRATIVE

8260B Volatile Organic Compounds

D1K0522-CCV1 **Continuing Calibration %Diff/Drift is below control limit (CD-).**
Bromomethane (36% @ 30%)

DK11938-BSD1 **Blank Spike recovery is below lower control limit (B-).**
1,2-Dibromo-3-Chloropropane (67% @ 70-130%), Vinyl Acetate (63% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: BD-01
Date Sampled: 11/17/21 07:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 5:45	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 5:45	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 5:45	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Benzene	**0.0025** (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: BD-01
Date Sampled: 11/17/21 07:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Ethylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Isopropylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Naphthalene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
n-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
n-Propylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
sec-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Styrene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: BD-01
Date Sampled: 11/17/21 07:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Toluene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Xylene O	ND (0.0010)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Xylene P,M	ND (0.0020)		8260B		1	11/20/21 5:45	D1K0464	DK11938
Xylenes (Total)	ND (0.00200)		8260B		1	11/20/21 5:45		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-201
Date Sampled: 11/17/21 10:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 7:55	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 7:55	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 7:55	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Benzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-201
Date Sampled: 11/17/21 10:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Ethylbenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Isopropylbenzene	**0.0049** (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Naphthalene	**0.0016** (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
n-Butylbenzene	**0.0019** (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
n-Propylbenzene	**0.0024** (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
sec-Butylbenzene	**0.0029** (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Styrene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-201
Date Sampled: 11/17/21 10:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Toluene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Xylene O	ND (0.0010)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Xylene P,M	ND (0.0020)		8260B		1	11/20/21 7:55	D1K0464	DK11938
Xylenes (Total)	ND (0.00200)		8260B		1	11/20/21 7:55		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*99 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-36
Date Sampled: 11/17/21 10:42
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2,4-Trimethylbenzene	**0.0034** (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 7:03	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 7:03	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 7:03	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Benzene	**0.0904** (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-36
Date Sampled: 11/17/21 10:42
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Ethylbenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Isopropylbenzene	**0.0024** (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Naphthalene	**0.0018** (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
n-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
n-Propylbenzene	**0.0014** (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
sec-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Styrene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-36
Date Sampled: 11/17/21 10:42
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Toluene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Xylene O	**0.0015** (0.0010)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Xylene P,M	ND (0.0020)		8260B		1	11/20/21 7:03	D1K0464	DK11938
Xylenes (Total)	ND (0.00200)		8260B		1	11/20/21 7:03		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*99 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-31
Date Sampled: 11/17/21 11:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 5:19	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 5:19	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 5:19	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Benzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-31
Date Sampled: 11/17/21 11:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Ethylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Isopropylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Naphthalene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
n-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
n-Propylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
sec-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Styrene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-31
Date Sampled: 11/17/21 11:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Toluene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Xylene O	ND (0.0010)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Xylene P,M	ND (0.0020)		8260B		1	11/20/21 5:19	D1K0464	DK11938
Xylenes (Total)	ND (0.00200)		8260B		1	11/20/21 5:19		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-319D
Date Sampled: 11/17/21 12:37
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 8:21	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 8:21	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 8:21	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Benzene	**0.0114** (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-319D
Date Sampled: 11/17/21 12:37
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Ethylbenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Isopropylbenzene	**0.0013** (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Naphthalene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
n-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
n-Propylbenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
sec-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Styrene	**0.0011** (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-319D
Date Sampled: 11/17/21 12:37
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Toluene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Xylene O	ND (0.0010)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Xylene P,M	ND (0.0020)		8260B		1	11/20/21 8:21	D1K0464	DK11938
Xylenes (Total)	ND (0.00200)		8260B		1	11/20/21 8:21		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*97 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*98 %*		*70-130*
Surrogate: Dibromofluoromethane	*95 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: UHB-20
Date Sampled: 11/17/21 12:58
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 6:11	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 6:11	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 6:11	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Benzene	**0.0026** (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: UHB-20
Date Sampled: 11/17/21 12:58
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Ethylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Isopropylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Naphthalene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
n-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
n-Propylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
sec-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Styrene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: UHB-20
Date Sampled: 11/17/21 12:58
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Toluene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Xylene O	ND (0.0010)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Xylene P,M	ND (0.0020)		8260B		1	11/20/21 6:11	D1K0464	DK11938
Xylenes (Total)	ND (0.00200)		8260B		1	11/20/21 6:11		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-22
Date Sampled: 11/17/21 14:40
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2,4-Trimethylbenzene	**0.0033** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 7:29	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 7:29	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 7:29	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Benzene	**0.821** (0.0200)		8260B		20	11/22/21 13:27	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-22
Date Sampled: 11/17/21 14:40
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Ethylbenzene	**0.0085** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Isopropylbenzene	**0.0298** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Naphthalene	**0.0123** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
n-Butylbenzene	**0.0014** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
n-Propylbenzene	**0.0078** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
sec-Butylbenzene	**0.0014** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Styrene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-22
Date Sampled: 11/17/21 14:40
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Toluene	**0.0012** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Xylene O	**0.0119** (0.0010)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Xylene P,M	**0.0023** (0.0020)		8260B		1	11/20/21 7:29	D1K0464	DK11938
Xylenes (Total)	**0.0142** (0.00200)		8260B		1	11/20/21 7:29		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*103 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*95 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: TB-01
Date Sampled: 11/17/21 14:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-08
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/20/21 6:37	D1K0464	DK11938
1-Chlorohexane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
2-Butanone	ND (0.0100)		8260B		1	11/20/21 6:37	D1K0464	DK11938
2-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
2-Hexanone	ND (0.0100)		8260B		1	11/20/21 6:37	D1K0464	DK11938
4-Chlorotoluene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Acetone	ND (0.0100)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Benzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Bromobenzene	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: TB-01
Date Sampled: 11/17/21 14:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-08
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Bromodichloromethane	ND (0.0006)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Bromoform	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Bromomethane	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Carbon Disulfide	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Chlorobenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Chloroethane	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Chloroform	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Chloromethane	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Dibromochloromethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Dibromomethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Diethyl Ether	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Di-isopropyl ether	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Ethylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Hexachloroethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Isopropylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Methylene Chloride	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Naphthalene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
n-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
n-Propylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
sec-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Styrene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
tert-Butylbenzene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Tetrachloroethene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: TB-01
Date Sampled: 11/17/21 14:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0832
ESS Laboratory Sample ID: 21K0832-08
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Toluene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Trichloroethene	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Vinyl Acetate	ND (0.0050)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Vinyl Chloride	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Xylene O	ND (0.0010)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Xylene P,M	ND (0.0020)		8260B		1	11/20/21 6:37	D1K0464	DK11938
Xylenes (Total)	ND (0.00200)		8260B		1	11/20/21 6:37		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*95 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11938 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0100	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11938 - 5030B										
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0254*		mg/L	*0.02500*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0235*		mg/L	*0.02500*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0243*		mg/L	*0.02500*		*97*	*70-130*			
Surrogate: Toluene-d8	*0.0243*		mg/L	*0.02500*		*97*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
1,1,1-Trichloroethane	0.0104	0.0010	mg/L	0.01000		104	70-130			
1,1,2,2-Tetrachloroethane	0.0094	0.0005	mg/L	0.01000		94	70-130			
1,1,2-Trichloroethane	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,1-Dichloroethane	0.0104	0.0010	mg/L	0.01000		104	70-130			
1,1-Dichloroethene	0.0115	0.0010	mg/L	0.01000		115	70-130			
1,1-Dichloropropene	0.0101	0.0020	mg/L	0.01000		101	70-130			
1,2,3-Trichlorobenzene	0.0092	0.0010	mg/L	0.01000		92	70-130			
1,2,3-Trichloropropane	0.0093	0.0010	mg/L	0.01000		93	70-130			
1,2,4-Trichlorobenzene	0.0092	0.0010	mg/L	0.01000		92	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11938 - 5030B										
1,2,4-Trimethylbenzene	0.0099	0.0010	mg/L	0.01000		99	70-130			
1,2-Dibromo-3-Chloropropane	0.0074	0.0050	mg/L	0.01000		74	70-130			
1,2-Dibromoethane	0.0099	0.0010	mg/L	0.01000		99	70-130			
1,2-Dichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
1,2-Dichloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
1,2-Dichloropropane	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,3,5-Trimethylbenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			
1,3-Dichlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130			
1,3-Dichloropropane	0.0101	0.0010	mg/L	0.01000		101	70-130			
1,4-Dichlorobenzene	0.0104	0.0010	mg/L	0.01000		104	70-130			
1,4-Dioxane - Screen	0.192	0.500	mg/L	0.2000		96	0-332			
1-Chlorohexane	0.0091	0.0010	mg/L	0.01000		91	70-130			
2,2-Dichloropropane	0.0096	0.0010	mg/L	0.01000		96	70-130			
2-Butanone	0.0500	0.0100	mg/L	0.05000		100	70-130			
2-Chlorotoluene	0.0100	0.0010	mg/L	0.01000		100	70-130			
2-Hexanone	0.0497	0.0100	mg/L	0.05000		99	70-130			
4-Chlorotoluene	0.0100	0.0010	mg/L	0.01000		100	70-130			
4-Isopropyltoluene	0.0099	0.0010	mg/L	0.01000		99	70-130			
4-Methyl-2-Pentanone	0.0488	0.0100	mg/L	0.05000		98	70-130			
Acetone	0.0524	0.0100	mg/L	0.05000		105	70-130			
Benzene	0.0104	0.0010	mg/L	0.01000		104	70-130			
Bromobenzene	0.0103	0.0020	mg/L	0.01000		103	70-130			
Bromochloromethane	0.0110	0.0010	mg/L	0.01000		110	70-130			
Bromodichloromethane	0.0109	0.0006	mg/L	0.01000		109	70-130			
Bromoform	0.0093	0.0010	mg/L	0.01000		93	70-130			
Bromomethane	0.0091	0.0020	mg/L	0.01000		91	70-130			
Carbon Disulfide	0.0101	0.0010	mg/L	0.01000		101	70-130			
Carbon Tetrachloride	0.0106	0.0010	mg/L	0.01000		106	70-130			
Chlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130			
Chloroethane	0.0104	0.0020	mg/L	0.01000		104	70-130			
Chloroform	0.0106	0.0010	mg/L	0.01000		106	70-130			
Chloromethane	0.0088	0.0020	mg/L	0.01000		88	70-130			
cis-1,2-Dichloroethene	0.0113	0.0010	mg/L	0.01000		113	70-130			
cis-1,3-Dichloropropene	0.0106	0.0004	mg/L	0.01000		106	70-130			
Dibromochloromethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
Dibromomethane	0.0104	0.0010	mg/L	0.01000		104	70-130			
Dichlorodifluoromethane	0.0087	0.0020	mg/L	0.01000		87	70-130			
Diethyl Ether	0.0108	0.0010	mg/L	0.01000		108	70-130			
Di-isopropyl ether	0.0095	0.0010	mg/L	0.01000		95	70-130			
Ethyl tertiary-butyl ether	0.0098	0.0010	mg/L	0.01000		98	70-130			
Ethylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130			
Hexachlorobutadiene	0.0095	0.0006	mg/L	0.01000		95	70-130			
Hexachloroethane	0.0094	0.0010	mg/L	0.01000		94	70-130			
Isopropylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130			
Methyl tert-Butyl Ether	0.0098	0.0010	mg/L	0.01000		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11938 - 5030B										
Methylene Chloride	0.0105	0.0020	mg/L	0.01000		105	70-130			
Naphthalene	0.0092	0.0010	mg/L	0.01000		92	70-130			
n-Butylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130			
n-Propylbenzene	0.0099	0.0010	mg/L	0.01000		99	70-130			
sec-Butylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130			
Styrene	0.0088	0.0010	mg/L	0.01000		88	70-130			
tert-Butylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130			
Tertiary-amyl methyl ether	0.0095	0.0010	mg/L	0.01000		95	70-130			
Tetrachloroethene	0.0124	0.0010	mg/L	0.01000		124	70-130			
Tetrahydrofuran	0.0087	0.0050	mg/L	0.01000		87	70-130			
Toluene	0.0105	0.0010	mg/L	0.01000		105	70-130			
trans-1,2-Dichloroethene	0.0113	0.0010	mg/L	0.01000		113	70-130			
trans-1,3-Dichloropropene	0.0094	0.0004	mg/L	0.01000		94	70-130			
Trichloroethene	0.0104	0.0010	mg/L	0.01000		104	70-130			
Trichlorofluoromethane	0.0107	0.0010	mg/L	0.01000		107	70-130			
Vinyl Acetate	0.0070	0.0050	mg/L	0.01000		70	70-130			
Vinyl Chloride	0.0105	0.0010	mg/L	0.01000		105	70-130			
Xylene O	0.0101	0.0010	mg/L	0.01000		101	70-130			
Xylene P,M	0.0205	0.0020	mg/L	0.02000		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0252*		mg/L	*0.02500*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0248*		mg/L	*0.02500*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0256*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.0242*		mg/L	*0.02500*		*97*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0100	0.0010	mg/L	0.01000		100	70-130	0.5	25	
1,1,1-Trichloroethane	0.0104	0.0010	mg/L	0.01000		104	70-130	0.9	25	
1,1,2,2-Tetrachloroethane	0.0090	0.0005	mg/L	0.01000		90	70-130	4	25	
1,1,2-Trichloroethane	0.0101	0.0010	mg/L	0.01000		101	70-130	0.9	25	
1,1-Dichloroethane	0.0103	0.0010	mg/L	0.01000		103	70-130	0.9	25	
1,1-Dichloroethene	0.0118	0.0010	mg/L	0.01000		118	70-130	2	25	
1,1-Dichloropropene	0.0099	0.0020	mg/L	0.01000		99	70-130	2	25	
1,2,3-Trichlorobenzene	0.0092	0.0010	mg/L	0.01000		92	70-130	0.5	25	
1,2,3-Trichloropropane	0.0089	0.0010	mg/L	0.01000		89	70-130	4	25	
1,2,4-Trichlorobenzene	0.0091	0.0010	mg/L	0.01000		91	70-130	0.2	25	
1,2,4-Trimethylbenzene	0.0099	0.0010	mg/L	0.01000		99	70-130	0.8	25	
1,2-Dibromo-3-Chloropropane	0.0067	0.0050	mg/L	0.01000		67	70-130	9	25	B-
1,2-Dibromoethane	0.0098	0.0010	mg/L	0.01000		98	70-130	1	25	
1,2-Dichlorobenzene	0.0102	0.0010	mg/L	0.01000		102	70-130	0.6	25	
1,2-Dichloroethane	0.0097	0.0010	mg/L	0.01000		97	70-130	5	25	
1,2-Dichloropropane	0.0099	0.0010	mg/L	0.01000		99	70-130	1	25	
1,3,5-Trimethylbenzene	0.0101	0.0010	mg/L	0.01000		101	70-130	1	25	
1,3-Dichlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130	0.1	25	
1,3-Dichloropropane	0.0100	0.0010	mg/L	0.01000		100	70-130	1	25	
1,4-Dichlorobenzene	0.0103	0.0010	mg/L	0.01000		103	70-130	0.8	25	
1,4-Dioxane - Screen	0.193	0.500	mg/L	0.2000		97	0-332	0.5	200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11938 - 5030B										
1-Chlorohexane	0.0091	0.0010	mg/L	0.01000		91	70-130	0	25	
2,2-Dichloropropane	0.0095	0.0010	mg/L	0.01000		95	70-130	0.3	25	
2-Butanone	0.0489	0.0100	mg/L	0.05000		98	70-130	2	25	
2-Chlorotoluene	0.0099	0.0010	mg/L	0.01000		99	70-130	1	25	
2-Hexanone	0.0486	0.0100	mg/L	0.05000		97	70-130	2	25	
4-Chlorotoluene	0.0101	0.0010	mg/L	0.01000		101	70-130	0.3	25	
4-Isopropyltoluene	0.0098	0.0010	mg/L	0.01000		98	70-130	0.9	25	
4-Methyl-2-Pentanone	0.0474	0.0100	mg/L	0.05000		95	70-130	3	25	
Acetone	0.0519	0.0100	mg/L	0.05000		104	70-130	0.9	25	
Benzene	0.0104	0.0010	mg/L	0.01000		104	70-130	0.3	25	
Bromobenzene	0.0101	0.0020	mg/L	0.01000		101	70-130	2	25	
Bromochloromethane	0.0110	0.0010	mg/L	0.01000		110	70-130	0.09	25	
Bromodichloromethane	0.0108	0.0006	mg/L	0.01000		108	70-130	1	25	
Bromoform	0.0093	0.0010	mg/L	0.01000		93	70-130	0.2	25	
Bromomethane	0.0084	0.0020	mg/L	0.01000		84	70-130	8	25	
Carbon Disulfide	0.0104	0.0010	mg/L	0.01000		104	70-130	3	25	
Carbon Tetrachloride	0.0106	0.0010	mg/L	0.01000		106	70-130	0.4	25	
Chlorobenzene	0.0101	0.0010	mg/L	0.01000		101	70-130	1	25	
Chloroethane	0.0105	0.0020	mg/L	0.01000		105	70-130	1	25	
Chloroform	0.0104	0.0010	mg/L	0.01000		104	70-130	2	25	
Chloromethane	0.0087	0.0020	mg/L	0.01000		87	70-130	1	25	
cis-1,2-Dichloroethene	0.0112	0.0010	mg/L	0.01000		112	70-130	1	25	
cis-1,3-Dichloropropene	0.0104	0.0004	mg/L	0.01000		104	70-130	2	25	
Dibromochloromethane	0.0101	0.0010	mg/L	0.01000		101	70-130	0.2	25	
Dibromomethane	0.0103	0.0010	mg/L	0.01000		103	70-130	0.7	25	
Dichlorodifluoromethane	0.0084	0.0020	mg/L	0.01000		84	70-130	3	25	
Diethyl Ether	0.0104	0.0010	mg/L	0.01000		104	70-130	4	25	
Di-isopropyl ether	0.0096	0.0010	mg/L	0.01000		96	70-130	0.7	25	
Ethyl tertiary-butyl ether	0.0097	0.0010	mg/L	0.01000		97	70-130	0.3	25	
Ethylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130	0.8	25	
Hexachlorobutadiene	0.0094	0.0006	mg/L	0.01000		94	70-130	0.8	25	
Hexachloroethane	0.0094	0.0010	mg/L	0.01000		94	70-130	0	25	
Isopropylbenzene	0.0100	0.0010	mg/L	0.01000		100	70-130	0.7	25	
Methyl tert-Butyl Ether	0.0096	0.0010	mg/L	0.01000		96	70-130	1	25	
Methylene Chloride	0.0105	0.0020	mg/L	0.01000		105	70-130	0.4	25	
Naphthalene	0.0090	0.0010	mg/L	0.01000		90	70-130	2	25	
n-Butylbenzene	0.0099	0.0010	mg/L	0.01000		99	70-130	2	25	
n-Propylbenzene	0.0098	0.0010	mg/L	0.01000		98	70-130	0.9	25	
sec-Butylbenzene	0.0097	0.0010	mg/L	0.01000		97	70-130	1	25	
Styrene	0.0088	0.0010	mg/L	0.01000		88	70-130	0.8	25	
tert-Butylbenzene	0.0099	0.0010	mg/L	0.01000		99	70-130	1	25	
Tertiary-amyl methyl ether	0.0096	0.0010	mg/L	0.01000		96	70-130	0.2	25	
Tetrachloroethene	0.0128	0.0010	mg/L	0.01000		128	70-130	3	25	
Tetrahydrofuran	0.0086	0.0050	mg/L	0.01000		86	70-130	1	25	
Toluene	0.0104	0.0010	mg/L	0.01000		104	70-130	0.4	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK11938 - 5030B										
trans-1,2-Dichloroethene	0.0115	0.0010	mg/L	0.01000		115	70-130	2	25	
trans-1,3-Dichloropropene	0.0094	0.0004	mg/L	0.01000		94	70-130	0.6	25	
Trichloroethene	0.0107	0.0010	mg/L	0.01000		107	70-130	2	25	
Trichlorofluoromethane	0.0106	0.0010	mg/L	0.01000		106	70-130	2	25	
Vinyl Acetate	0.0063	0.0050	mg/L	0.01000		63	70-130	10	25	B-
Vinyl Chloride	0.0108	0.0010	mg/L	0.01000		108	70-130	3	25	
Xylene O	0.0100	0.0010	mg/L	0.01000		100	70-130	0.6	25	
Xylene P,M	0.0204	0.0020	mg/L	0.02000		102	70-130	0.4	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0249*		mg/L	*0.02500*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0246*		mg/L	*0.02500*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0252*		mg/L	*0.02500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.0239*		mg/L	*0.02500*		*96*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave ESS Laboratory Work Order: 21K0832

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0832

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/KPB

Shipped/Delivered Via: ESS Courier

ESS Project ID: 21K0832
Date Received: 11/17/2021
Project Due Date: 11/24/2021
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: -3.9 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
    ESS Sample IDs:
    Analysis:
    TAT:
12. Were VOAs received? Yes / No
    a. Air bubbles in aqueous VOAs? Yes / No
    b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? Yes / No
    a. If metals preserved upon receipt: Date: Time: By:
    b. Low Level VOA vials frozen: Date: Time: By:

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Date: Time: By:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	233271	Yes	No	Yes	VOA Vial	HCl	
1	233272	Yes	No	Yes	VOA Vial	HCl	
1	233273	Yes	No	Yes	VOA Vial	HCl	
2	233274	Yes	No	Yes	VOA Vial	HCl	
2	233275	Yes	No	Yes	VOA Vial	HCl	
2	233276	Yes	No	Yes	VOA Vial	HCl	
3	233277	Yes	No	Yes	VOA Vial	HCl	
3	233278	Yes	No	Yes	VOA Vial	HCl	
3	233279	Yes	No	Yes	VOA Vial	HCl	
4	233280	Yes	No	Yes	VOA Vial	HCl	
4	233281	Yes	No	Yes	VOA Vial	HCl	
4	233282	Yes	No	Yes	VOA Vial	HCl	
5	233283	Yes	No	Yes	VOA Vial	HCl	
5	233284	Yes	No	Yes	VOA Vial	HCl	
5	233285	Yes	No	Yes	VOA Vial	HCl	
6	233286	Yes	No	Yes	VOA Vial	HCl	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/KPB

ESS Project ID: 21K0832

Date Received: 11/17/2021

6	233287	Yes	No	Yes	VOA Vial	HCl
6	233288	Yes	No	Yes	VOA Vial	HCl
7	233289	Yes	No	Yes	VOA Vial	HCl
7	233290	Yes	No	Yes	VOA Vial	HCl
7	233291	Yes	No	Yes	VOA Vial	HCl
8	233294	Yes	No	Yes	VOA Vial	HCl
8	233297	Yes	No	Yes	VOA Vial	HCl
8	233298	Yes	No	Yes	VOA Vial	HCl

2nd Review

Were all containers scanned into storage/lab? Initials KL

Are barcode labels on correct containers? ~~Yes~~ / No

Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA

Are all Hex Chrome stickers attached? Yes / No / NA

Are all QC stickers attached? Yes / No / NA

Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: [signature] Date & Time: 11.18.21 12:56

Reviewed By: [signature] Date & Time: 11/18/21 15:09

CHAIN OF CUSTODY

185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

ESS Lab # 21K0832 | Page 1 of 1

Turn Time: ☐ >5 ☑ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day
Regulatory State: RI **Criteria:**
Is this project for any of the following?: ☐ CT RCP ☐ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)
☑ Limit Checker ☐ State Forms ☐ EQuIS
☑ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☑ Other (Specify) → PDF

CLIENT INFORMATION

Client: GZA
Address: 158 Valley Street, Providence, RI
Phone: 401-421-4140
Email Distribution List: Sara.Haupt@gza.com; Sophia.Narkiewicz@gza.com; Elliot.Maker@gza.com

PROJECT INFORMATION

Project Name: 642 Allens Ave
Project Location: Providence, RI
Project Number: 33554.01 Task 3.01
Project Manager: Sara Haupt
Bill to: GZA
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOC via EPA Method 8260	Total Number of Bottles
1	11/17/21	7:00	Grab	Groundwater	BD-01	X	3
2	11/17/21	600			GZ-201	X	3
3	11/17/21	1042			RCA-36	X	3
4	11/17/21	1150			RCA-31	X	3
5	11/17/21	1237			GZ-319D	X	3
6	11/17/21	1256			VHB-20	X	3
7	11/17/21	1440			RCA-22	X	3
8	11/17/21	1455			TB-01	X	2
						✓	24

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Chain needs to be filled out neatly and completely for on time delivery.

Sampled by: Elliot Maker

Laboratory Use Only
Cooler Temperature (°C): -3.9 ice

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration ☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Elliot Maker	11/17/2021	17:21					

CERTIFICATE OF ANALYSIS

Sophia Narkiewicz
GZA GeoEnvironmental, Inc.
188 Valley Street
Providence, RI 02909

RE: 642 Allens Ave (03.0033554.01)
ESS Laboratory Work Order Number: 21K0904

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:14 pm, Nov 30, 2021

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

SAMPLE RECEIPT

The following samples were received on November 19, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21K0904-01	RCA-12R	Ground Water	8260B
21K0904-02	GZ-301D	Ground Water	8260B
21K0904-03	RCA-1	Ground Water	8260B
21K0904-04	GZ-304D	Ground Water	8260B
21K0904-05	GZ-309D	Ground Water	8260B
21K0904-06	VHB-1	Ground Water	8260B
21K0904-07	RCA-15	Ground Water	8260B
21K0904-08	TB-02	Ground Water	8260B

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-12R
Date Sampled: 11/18/21 09:28
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 14:46	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 14:46	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 14:46	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Benzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-12R
Date Sampled: 11/18/21 09:28
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936
cis-1,2-Dichloroethene	**0.0074** (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Isopropylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Naphthalene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
sec-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Tetrachloroethene	**0.0018** (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-12R
Date Sampled: 11/18/21 09:28
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Trichloroethene	**0.0078** (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 14:46	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 14:46		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*99 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*99 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-301D
Date Sampled: 11/18/21 09:52
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 15:13	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 15:13	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 15:13	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Benzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-301D
Date Sampled: 11/18/21 09:52
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Isopropylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Naphthalene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
sec-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Tetrachloroethene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-301D
Date Sampled: 11/18/21 09:52
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Trichloroethene	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 15:13	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 15:13		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*99 %*		*70-130*
Surrogate: Dibromofluoromethane	*104 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-1
Date Sampled: 11/18/21 11:39
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 15:40	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 15:40	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 15:40	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Benzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-1
Date Sampled: 11/18/21 11:39
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936
cis-1,2-Dichloroethene	**0.0013** (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Isopropylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Naphthalene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
sec-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Tetrachloroethene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-1
Date Sampled: 11/18/21 11:39
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Trichloroethene	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 15:40	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 15:40		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*100 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-304D
Date Sampled: 11/18/21 12:44
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 16:06	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 16:06	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 16:06	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Benzene	**0.0013** (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-304D
Date Sampled: 11/18/21 12:44
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936
cis-1,2-Dichloroethene	**0.0016** (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Isopropylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Naphthalene	**0.0062** (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
sec-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Tetrachloroethene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-304D
Date Sampled: 11/18/21 12:44
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Trichloroethene	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 16:06	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 16:06		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*101 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-309D
Date Sampled: 11/18/21 14:54
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 16:33	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 16:33	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 16:33	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Benzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-309D
Date Sampled: 11/18/21 14:54
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Isopropylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Naphthalene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
sec-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Tetrachloroethene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: GZ-309D
Date Sampled: 11/18/21 14:54
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Trichloroethene	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 16:33	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 16:33		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*100 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*101 %*		*70-130*
Surrogate: Dibromofluoromethane	*105 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-1
Date Sampled: 11/18/21 15:17
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 17:00	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 17:00	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 17:00	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Benzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-1
Date Sampled: 11/18/21 15:17
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Isopropylbenzene	**0.0087** (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Naphthalene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
sec-Butylbenzene	**0.0021** (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Tetrachloroethene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: VHB-1
Date Sampled: 11/18/21 15:17
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Trichloroethene	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 17:00	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 17:00		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*104 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*97 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-15
Date Sampled: 11/18/21 16:13
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 17:27	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 17:27	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 17:27	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Benzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-15
Date Sampled: 11/18/21 16:13
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Isopropylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Naphthalene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
sec-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Tetrachloroethene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: RCA-15
Date Sampled: 11/18/21 16:13
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Trichloroethene	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 17:27	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 17:27		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*102 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*95 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: TB-02
Date Sampled: 11/18/21 16:21
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,1-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,1-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,1-Dichloropropene	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2-Dibromoethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2-Dichloroethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,3-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1,4-Dioxane - Screen	ND (0.500)		8260B		1	11/29/21 17:53	D1K0608	DK12936
1-Chlorohexane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
2,2-Dichloropropane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
2-Butanone	ND (0.0100)		8260B		1	11/29/21 17:53	D1K0608	DK12936
2-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
2-Hexanone	ND (0.0100)		8260B		1	11/29/21 17:53	D1K0608	DK12936
4-Chlorotoluene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
4-Isopropyltoluene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
4-Methyl-2-Pentanone	ND (0.0100)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Acetone	ND (0.0100)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Benzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Bromobenzene	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: TB-02
Date Sampled: 11/18/21 16:21
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Bromochloromethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Bromodichloromethane	ND (0.0006)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Bromoform	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Bromomethane	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Carbon Disulfide	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Carbon Tetrachloride	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Chlorobenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Chloroethane	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Chloroform	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Chloromethane	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Dibromochloromethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Dibromomethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Dichlorodifluoromethane	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Diethyl Ether	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Di-isopropyl ether	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Ethylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Hexachlorobutadiene	ND (0.0006)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Hexachloroethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Isopropylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Methylene Chloride	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Naphthalene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
n-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
n-Propylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
sec-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Styrene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
tert-Butylbenzene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Tetrachloroethene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave
Client Sample ID: TB-02
Date Sampled: 11/18/21 16:21
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 21K0904
ESS Laboratory Sample ID: 21K0904-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Tetrahydrofuran	ND (0.0050)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Toluene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Trichloroethene	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Trichlorofluoromethane	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Vinyl Acetate	ND (0.0050)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Vinyl Chloride	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Xylene O	ND (0.0010)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Xylene P,M	ND (0.0020)		8260B		1	11/29/21 17:53	D1K0608	DK12936
Xylenes (Total)	ND (0.00200)		8260B		1	11/29/21 17:53		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*101 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*102 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK12936 - 5030B										
Blank										
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0100	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK12936 - 5030B										
Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	*0.0256*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0256*		mg/L	*0.02500*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0256*		mg/L	*0.02500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.0244*		mg/L	*0.02500*		*97*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	0.0094	0.0010	mg/L	0.01000		94	70-130			
1,1,1-Trichloroethane	0.0096	0.0010	mg/L	0.01000		96	70-130			
1,1,2,2-Tetrachloroethane	0.0086	0.0005	mg/L	0.01000		86	70-130			
1,1,2-Trichloroethane	0.0090	0.0010	mg/L	0.01000		90	70-130			
1,1-Dichloroethane	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,1-Dichloroethene	0.0106	0.0010	mg/L	0.01000		106	70-130			
1,1-Dichloropropene	0.0104	0.0020	mg/L	0.01000		104	70-130			
1,2,3-Trichlorobenzene	0.0094	0.0010	mg/L	0.01000		94	70-130			
1,2,3-Trichloropropane	0.0090	0.0010	mg/L	0.01000		90	70-130			
1,2,4-Trichlorobenzene	0.0093	0.0010	mg/L	0.01000		93	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK12936 - 5030B										
1,2,4-Trimethylbenzene	0.0088	0.0010	mg/L	0.01000		88	70-130			
1,2-Dibromo-3-Chloropropane	0.0083	0.0050	mg/L	0.01000		83	70-130			
1,2-Dibromoethane	0.0094	0.0010	mg/L	0.01000		94	70-130			
1,2-Dichlorobenzene	0.0092	0.0010	mg/L	0.01000		92	70-130			
1,2-Dichloroethane	0.0098	0.0010	mg/L	0.01000		98	70-130			
1,2-Dichloropropane	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,3,5-Trimethylbenzene	0.0093	0.0010	mg/L	0.01000		93	70-130			
1,3-Dichlorobenzene	0.0099	0.0010	mg/L	0.01000		99	70-130			
1,3-Dichloropropane	0.0100	0.0010	mg/L	0.01000		100	70-130			
1,4-Dichlorobenzene	0.0091	0.0010	mg/L	0.01000		91	70-130			
1,4-Dioxane - Screen	0.372	0.500	mg/L	0.2000		186	0-332			
1-Chlorohexane	0.0087	0.0010	mg/L	0.01000		87	70-130			
2,2-Dichloropropane	0.0096	0.0010	mg/L	0.01000		96	70-130			
2-Butanone	0.0536	0.0100	mg/L	0.05000		107	70-130			
2-Chlorotoluene	0.0091	0.0010	mg/L	0.01000		91	70-130			
2-Hexanone	0.0493	0.0100	mg/L	0.05000		99	70-130			
4-Chlorotoluene	0.0094	0.0010	mg/L	0.01000		94	70-130			
4-Isopropyltoluene	0.0090	0.0010	mg/L	0.01000		90	70-130			
4-Methyl-2-Pentanone	0.0480	0.0100	mg/L	0.05000		96	70-130			
Acetone	0.0571	0.0100	mg/L	0.05000		114	70-130			
Benzene	0.0101	0.0010	mg/L	0.01000		101	70-130			
Bromobenzene	0.0095	0.0020	mg/L	0.01000		95	70-130			
Bromochloromethane	0.0093	0.0010	mg/L	0.01000		93	70-130			
Bromodichloromethane	0.0102	0.0006	mg/L	0.01000		102	70-130			
Bromoform	0.0094	0.0010	mg/L	0.01000		94	70-130			
Bromomethane	0.0094	0.0020	mg/L	0.01000		94	70-130			
Carbon Disulfide	0.0106	0.0010	mg/L	0.01000		106	70-130			
Carbon Tetrachloride	0.0098	0.0010	mg/L	0.01000		98	70-130			
Chlorobenzene	0.0100	0.0010	mg/L	0.01000		100	70-130			
Chloroethane	0.0099	0.0020	mg/L	0.01000		99	70-130			
Chloroform	0.0101	0.0010	mg/L	0.01000		101	70-130			
Chloromethane	0.0094	0.0020	mg/L	0.01000		94	70-130			
cis-1,2-Dichloroethene	0.0101	0.0010	mg/L	0.01000		101	70-130			
cis-1,3-Dichloropropene	0.0100	0.0004	mg/L	0.01000		100	70-130			
Dibromochloromethane	0.0099	0.0010	mg/L	0.01000		99	70-130			
Dibromomethane	0.0100	0.0010	mg/L	0.01000		100	70-130			
Dichlorodifluoromethane	0.0085	0.0020	mg/L	0.01000		85	70-130			
Diethyl Ether	0.0105	0.0010	mg/L	0.01000		105	70-130			
Di-isopropyl ether	0.0101	0.0010	mg/L	0.01000		101	70-130			
Ethyl tertiary-butyl ether	0.0102	0.0010	mg/L	0.01000		102	70-130			
Ethylbenzene	0.0096	0.0010	mg/L	0.01000		96	70-130			
Hexachlorobutadiene	0.0111	0.0006	mg/L	0.01000		111	70-130			
Hexachloroethane	0.0097	0.0010	mg/L	0.01000		97	70-130			
Isopropylbenzene	0.0091	0.0010	mg/L	0.01000		91	70-130			
Methyl tert-Butyl Ether	0.0098	0.0010	mg/L	0.01000		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK12936 - 5030B										
Methylene Chloride	0.0101	0.0020	mg/L	0.01000		101	70-130			
Naphthalene	0.0092	0.0010	mg/L	0.01000		92	70-130			
n-Butylbenzene	0.0094	0.0010	mg/L	0.01000		94	70-130			
n-Propylbenzene	0.0092	0.0010	mg/L	0.01000		92	70-130			
sec-Butylbenzene	0.0090	0.0010	mg/L	0.01000		90	70-130			
Styrene	0.0095	0.0010	mg/L	0.01000		95	70-130			
tert-Butylbenzene	0.0091	0.0010	mg/L	0.01000		91	70-130			
Tertiary-amyl methyl ether	0.0100	0.0010	mg/L	0.01000		100	70-130			
Tetrachloroethene	0.0097	0.0010	mg/L	0.01000		97	70-130			
Tetrahydrofuran	0.0108	0.0050	mg/L	0.01000		108	70-130			
Toluene	0.0101	0.0010	mg/L	0.01000		101	70-130			
trans-1,2-Dichloroethene	0.0099	0.0010	mg/L	0.01000		99	70-130			
trans-1,3-Dichloropropene	0.0095	0.0004	mg/L	0.01000		95	70-130			
Trichloroethene	0.0101	0.0010	mg/L	0.01000		101	70-130			
Trichlorofluoromethane	0.0101	0.0010	mg/L	0.01000		101	70-130			
Vinyl Acetate	0.0107	0.0050	mg/L	0.01000		107	70-130			
Vinyl Chloride	0.0099	0.0010	mg/L	0.01000		99	70-130			
Xylene O	0.0100	0.0010	mg/L	0.01000		100	70-130			
Xylene P,M	0.0193	0.0020	mg/L	0.02000		96	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0246*		mg/L	*0.02500*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0266*		mg/L	*0.02500*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0247*		mg/L	*0.02500*		*99*	*70-130*			
Surrogate: Toluene-d8	*0.0250*		mg/L	*0.02500*		*100*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0098	0.0010	mg/L	0.01000		98	70-130	4	25	
1,1,1-Trichloroethane	0.0100	0.0010	mg/L	0.01000		100	70-130	4	25	
1,1,2,2-Tetrachloroethane	0.0083	0.0005	mg/L	0.01000		83	70-130	4	25	
1,1,2-Trichloroethane	0.0093	0.0010	mg/L	0.01000		93	70-130	3	25	
1,1-Dichloroethane	0.0104	0.0010	mg/L	0.01000		104	70-130	4	25	
1,1-Dichloroethene	0.0107	0.0010	mg/L	0.01000		107	70-130	0.8	25	
1,1-Dichloropropene	0.0101	0.0020	mg/L	0.01000		101	70-130	2	25	
1,2,3-Trichlorobenzene	0.0093	0.0010	mg/L	0.01000		93	70-130	0.4	25	
1,2,3-Trichloropropane	0.0089	0.0010	mg/L	0.01000		89	70-130	1	25	
1,2,4-Trichlorobenzene	0.0090	0.0010	mg/L	0.01000		90	70-130	3	25	
1,2,4-Trimethylbenzene	0.0089	0.0010	mg/L	0.01000		89	70-130	1	25	
1,2-Dibromo-3-Chloropropane	0.0077	0.0050	mg/L	0.01000		77	70-130	7	25	
1,2-Dibromoethane	0.0094	0.0010	mg/L	0.01000		94	70-130	0.1	25	
1,2-Dichlorobenzene	0.0091	0.0010	mg/L	0.01000		91	70-130	1	25	
1,2-Dichloroethane	0.0098	0.0010	mg/L	0.01000		98	70-130	0	25	
1,2-Dichloropropane	0.0099	0.0010	mg/L	0.01000		99	70-130	0.9	25	
1,3,5-Trimethylbenzene	0.0091	0.0010	mg/L	0.01000		91	70-130	3	25	
1,3-Dichlorobenzene	0.0094	0.0010	mg/L	0.01000		94	70-130	5	25	
1,3-Dichloropropane	0.0099	0.0010	mg/L	0.01000		99	70-130	2	25	
1,4-Dichlorobenzene	0.0091	0.0010	mg/L	0.01000		91	70-130	0.4	25	
1,4-Dioxane - Screen	0.281	0.500	mg/L	0.2000		140	0-332	28	200	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK12936 - 5030B										
1-Chlorohexane	0.0089	0.0010	mg/L	0.01000		89	70-130	3	25	
2,2-Dichloropropane	0.0094	0.0010	mg/L	0.01000		94	70-130	2	25	
2-Butanone	0.0533	0.0100	mg/L	0.05000		107	70-130	0.4	25	
2-Chlorotoluene	0.0092	0.0010	mg/L	0.01000		92	70-130	0.8	25	
2-Hexanone	0.0499	0.0100	mg/L	0.05000		100	70-130	1	25	
4-Chlorotoluene	0.0089	0.0010	mg/L	0.01000		89	70-130	5	25	
4-Isopropyltoluene	0.0086	0.0010	mg/L	0.01000		86	70-130	4	25	
4-Methyl-2-Pentanone	0.0477	0.0100	mg/L	0.05000		95	70-130	0.5	25	
Acetone	0.0591	0.0100	mg/L	0.05000		118	70-130	3	25	
Benzene	0.0096	0.0010	mg/L	0.01000		96	70-130	5	25	
Bromobenzene	0.0095	0.0020	mg/L	0.01000		95	70-130	0.4	25	
Bromochloromethane	0.0095	0.0010	mg/L	0.01000		95	70-130	2	25	
Bromodichloromethane	0.0099	0.0006	mg/L	0.01000		99	70-130	2	25	
Bromoform	0.0094	0.0010	mg/L	0.01000		94	70-130	0.3	25	
Bromomethane	0.0094	0.0020	mg/L	0.01000		94	70-130	0.3	25	
Carbon Disulfide	0.0107	0.0010	mg/L	0.01000		107	70-130	0.8	25	
Carbon Tetrachloride	0.0099	0.0010	mg/L	0.01000		99	70-130	0.8	25	
Chlorobenzene	0.0100	0.0010	mg/L	0.01000		100	70-130	0.8	25	
Chloroethane	0.0104	0.0020	mg/L	0.01000		104	70-130	5	25	
Chloroform	0.0100	0.0010	mg/L	0.01000		100	70-130	1	25	
Chloromethane	0.0091	0.0020	mg/L	0.01000		91	70-130	3	25	
cis-1,2-Dichloroethene	0.0102	0.0010	mg/L	0.01000		102	70-130	1	25	
cis-1,3-Dichloropropene	0.0100	0.0004	mg/L	0.01000		100	70-130	0.6	25	
Dibromochloromethane	0.0098	0.0010	mg/L	0.01000		98	70-130	0.8	25	
Dibromomethane	0.0103	0.0010	mg/L	0.01000		103	70-130	3	25	
Dichlorodifluoromethane	0.0086	0.0020	mg/L	0.01000		86	70-130	0.9	25	
Diethyl Ether	0.0103	0.0010	mg/L	0.01000		103	70-130	1	25	
Di-isopropyl ether	0.0100	0.0010	mg/L	0.01000		100	70-130	1	25	
Ethyl tertiary-butyl ether	0.0102	0.0010	mg/L	0.01000		102	70-130	0.1	25	
Ethylbenzene	0.0097	0.0010	mg/L	0.01000		97	70-130	2	25	
Hexachlorobutadiene	0.0104	0.0006	mg/L	0.01000		104	70-130	6	25	
Hexachloroethane	0.0097	0.0010	mg/L	0.01000		97	70-130	0.2	25	
Isopropylbenzene	0.0092	0.0010	mg/L	0.01000		92	70-130	0.8	25	
Methyl tert-Butyl Ether	0.0100	0.0010	mg/L	0.01000		100	70-130	2	25	
Methylene Chloride	0.0105	0.0020	mg/L	0.01000		105	70-130	4	25	
Naphthalene	0.0087	0.0010	mg/L	0.01000		87	70-130	6	25	
n-Butylbenzene	0.0088	0.0010	mg/L	0.01000		88	70-130	7	25	
n-Propylbenzene	0.0088	0.0010	mg/L	0.01000		88	70-130	4	25	
sec-Butylbenzene	0.0088	0.0010	mg/L	0.01000		88	70-130	1	25	
Styrene	0.0098	0.0010	mg/L	0.01000		98	70-130	3	25	
tert-Butylbenzene	0.0086	0.0010	mg/L	0.01000		86	70-130	6	25	
Tertiary-amyl methyl ether	0.0100	0.0010	mg/L	0.01000		100	70-130	0.6	25	
Tetrachloroethene	0.0102	0.0010	mg/L	0.01000		102	70-130	5	25	
Tetrahydrofuran	0.0105	0.0050	mg/L	0.01000		105	70-130	3	25	
Toluene	0.0104	0.0010	mg/L	0.01000		104	70-130	3	25	

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch DK12936 - 5030B										
trans-1,2-Dichloroethene	0.0105	0.0010	mg/L	0.01000		105	70-130	5	25	
trans-1,3-Dichloropropene	0.0091	0.0004	mg/L	0.01000		91	70-130	5	25	
Trichloroethene	0.0098	0.0010	mg/L	0.01000		98	70-130	2	25	
Trichlorofluoromethane	0.0102	0.0010	mg/L	0.01000		102	70-130	0.4	25	
Vinyl Acetate	0.0103	0.0050	mg/L	0.01000		103	70-130	4	25	
Vinyl Chloride	0.0102	0.0010	mg/L	0.01000		102	70-130	3	25	
Xylene O	0.0100	0.0010	mg/L	0.01000		100	70-130	0.7	25	
Xylene P,M	0.0196	0.0020	mg/L	0.02000		98	70-130	2	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0251*		mg/L	*0.02500*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.0257*		mg/L	*0.02500*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0247*		mg/L	*0.02500*		*99*	*70-130*			
Surrogate: Toluene-d8	*0.0255*		mg/L	*0.02500*		*102*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc.
Client Project ID: 642 Allens Ave

ESS Laboratory Work Order: 21K0904

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/KPB

Shipped/Delivered Via: Client

ESS Project ID: 21K0904
Date Received: 11/18/2021
Project Due Date: 11/29/2021
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: -2.2 Iced with: None
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** Yes / No / NA
10. Were any analyses received outside of hold time? Yes / (No)

11. Any Subcontracting needed? Yes / (No)
    ESS Sample IDs:
    Analysis:
    TAT:
12. Were VOAs received? (Yes) / No
    a. Air bubbles in aqueous VOAs? Yes / (No)
    b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? (Yes) / No
    a. If metals preserved upon receipt: Date: Time: By:
    b. Low Level VOA vials frozen: Date: Time: By:

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / (No)
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Date: Time: By:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	234000	Yes	No	Yes	VOA Vial	HCl	
1	234001	Yes	No	Yes	VOA Vial	HCl	
1	234002	Yes	No	Yes	VOA Vial	HCl	
2	234003	Yes	No	Yes	VOA Vial	HCl	
2	234004	Yes	No	Yes	VOA Vial	HCl	
2	234005	Yes	No	Yes	VOA Vial	HCl	
3	234006	Yes	No	Yes	VOA Vial	HCl	
3	234007	Yes	No	Yes	VOA Vial	HCl	
3	234008	Yes	No	Yes	VOA Vial	HCl	
4	234009	Yes	No	Yes	VOA Vial	HCl	
4	234010	Yes	No	Yes	VOA Vial	HCl	
4	234011	Yes	No	Yes	VOA Vial	HCl	
5	234012	Yes	No	Yes	VOA Vial	HCl	
5	234013	Yes	No	Yes	VOA Vial	HCl	
5	234014	Yes	No	Yes	VOA Vial	HCl	
6	234015	Yes	No	Yes	VOA Vial	HCl	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: GZA - Providence, RI - GZA/KPB

ESS Project ID: 21K0904

Date Received: 11/18/2021

6	234016	Yes	No	Yes	VOA Vial	HCl
6	234017	Yes	No	Yes	VOA Vial	HCl
7	234018	Yes	No	Yes	VOA Vial	HCl
7	234019	Yes	No	Yes	VOA Vial	HCl
7	234020	Yes	No	Yes	VOA Vial	HCl
8	234021	Yes	No	Yes	VOA Vial	HCl
8	234022	Yes	No	Yes	VOA Vial	HCl
8	234023	Yes	No	Yes	VOA Vial	HCl

2nd Review

Were all containers scanned into storage/lab? Initials

Are barcode labels on correct containers? Yes / No

Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA

Are all Hex Chrome stickers attached? Yes / No / NA

Are all QC stickers attached? Yes / No / NA

Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: Date & Time: 11/19/21 14:17

Reviewed By: Date & Time: 11/19/21 1552

185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 21K0904 | Page 1 of 1

Turn Time: ☐ >5 ☑ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: RE **Criteria:**

Is this project for any of the following?:

☐ CT RCP ☐ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

☑ Limit Checker ☐ State Forms ☐ EQuIS
☑ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☑ Other (Specify) → PDF

CLIENT INFORMATION

Client: GZA
Address: 188 Valley Street
Providence, RE
Phone: 401-421-4140
Email Distribution List: Sara.Hoopt@gza.com
Sophia.Markewicz@gza.com
Elliot.Maier@gza.com

PROJECT INFORMATION

Project Name: 642 Allens Ave
Project Location: Providence, RE
Project Number: 33554.01 Task 3.01
Project Manager:
Bill to:
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

Use with EPA Method 8260D

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID		Total Number of Bottles
1	11/18/2021	928	Grab	Groundwater	RCA-12R	X	3
2		952			GZ-301D	X	3
3		1134			RCA-1	X	3
4		1244			GZ-304D	X	3
5		1454			GZ-309D	X	3
6		1517			VitB-1	X	3
7		1613			RCA-15	X	3
8		1621			TB-02	X	3

Container Type:	AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial	V
Container Volume:	1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*	7
Preservation Code:	1-Non-Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*	2

Total Number of Bottles: 24

Sampled by : Elliot Maier

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only

Cooler Temperature (°C): -2.2
ICE

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration
☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
Elliot Maier	11/18/2021	1735	[signature]				

APPENDIX E

NEW MONITORING WELL INSTALLATION

GEOPROBE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

National Grid
642 Allens Ave
Providence, Rhode Island

EXPLORATION NO.: GZ-500D
SHEET: 1 of 1
PROJECT NO: 03.0033554.01
REVIEWED BY:

Logged By: Elliot Maker
Drilling Co.: New England Geotech
Foreman: Maynard Mendoza

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 30
Date Start - Finish: 9/15/2021 -

H. Datum:
V. Datum:

Type of Rig: Geoprobe
Rig Model: N/A
Drilling Method: Geoprobe

Sampler Type: N/A
Sampler O.D. (in.): N/A
Sampler Length (in.): 60
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
09/22/2021	08:58	7 Days	11.97	

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	PID (PPM)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
		0.0				Topsoil, Fabric	1			
							2			
5										
							3			
10									FILL	
							4			
15	S-1	15.0-20.0	60	32		S-1 : A: 0"-4" Black (10yr,2/1) SAND and GRAVEL, little coal, trace Silt, petroleum like staining, petroleum like odor (slight) wet S-1B: 4"-10" Brown (10yr, 5/2) SAND and GRAVEL, trace Silt, trace Brick S-1C: 10"-16" Black (10yr,2/1) SAND and GRAVEL, little coal, trace Silt, petroleum like staining, petroleum like odor (slight) wet				
										18.5
									ORGANIC SILT	
20	S-2	20.0-25.0	60	26		S-1D: 16"-32" Brown (10yr, 3/2) Organic SILT, trace shells, trace Brick, trace coal, black staining throughout, grayish pockets throughout S-2 : A: Gray (5yr, 6/1) Fine to medium SAND, trace Silt, trace Gravel. 0"-10" S-2B: 10"-26" Gray (5yr, 4/1) Organic SILT, trace Wood				20
25	S-3	25.0-30.0	60	38		S-3 : A: 0"-8" Gray (5yy, 4/1) Organic SILT and SAND S-3B: Brown (5yr, 2.5/2) Organic SILT and SAND, trace Roots. 8"-18" S-3C: 18"-38" Gray (10yr, 5/1) fine to medium SAND, trace Silt, trace Gravel, trace Organics, brown-staining throughout			SILT AND SAND (OUTWASH)	
30						End of exploration at 30 feet.				30

REMARKS

1 - The upper 6 feet was cleared utilizing a soil vacter truck.
2 - The headspace of soil samples was screened for total organic compounds (TVOCs) using a miniRae 3000 photo-Ionization detector (PID) equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.
3 - Water table observed at approximately 8 feet below ground surface.
4 - A groundwater monitoring well of the following construction was installed 10 feet of 2" diameter, schedule 40, flush joint, threaded, 10-slot, PVC well screen at 30 feet below ground surface, 2" diameter schedule 40, flush joint, threaded PVC riser installed approximately from 20 feet below ground surface to 3 feet above ground surface. Filter sand placed in annulus from 20-30 feet below ground surface. Bentonite seal installed from 19-20 feet below ground surface. Remaining annulus filled with filter sand. Well protected with stand pipe.

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

GZ-500D

GZA TEMPLATE GEOPROBE; 11/12/2021; 2:54:43 PM

GEOPROBE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

National Grid
642 Allens Ave
Providence, Rhode Island

EXPLORATION NO.: GZ-500S
SHEET: 1 of 1
PROJECT NO: 03.0033554.01
REVIEWED BY:

Logged By: Elliot Maker
Drilling Co.: New England Geotech
Foreman: Maynard Mendoza

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 15
Date Start - Finish: 9/14/2021 -

H. Datum:
V. Datum:

Type of Rig: Geoprobe
Rig Model: N/A
Drilling Method: Geoprobe

Sampler Type: N/A
Sampler O.D. (in.): N/A
Sampler Length (in.): 60
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
09/22/2021	08:50	8 Days	12.08	

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	PID (PPM)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
		0.0				Topsoil, Fabric				
						15"-72": Soil vac spoils	1			
							2			
5										
	S-1	6.0-10.0	48	30	0.2	S-1 : A: 0"-12" Brown (7.5yr, 4/2) fine to coarse SAND, little Silt, trace Gravel, moist				
					0.2	S-1B: 12"-14" Dark brown (10yr, 3/2) fine to coarse SAND, little Gravel, trace Silt, trace Brick, black stained, moist	3		FILL	
					0.0	S-1C: 14"-24" (10YR, 4/3) Brown fine SAND, trace Silt, trace Gravel, wet				
10	S-2	10.0-15.0	60	28	0.2	S-1D: 24"-30" Dark brown (10yr, 2/2) Medium SAND, trace Silt, wet	4			
					0.1	S-2 : A: 0"-6" Brown (10yr, 3/3) fine to medium SAND, trace Gravel, trace Silt, trace Brick, wet				
					36.3					
					63.3	S-2B: 6"-12" Gray brown (10yr, 6/2) fine to medium SAND, trace Silt, trace Gravel, wet				
15					177					15
					93.1	S-2C: 12"-14" Gray brown (10yr, 6/1) fine SAND, trace Silt, trace Gravel, Petroleum-like odors (moderate) Slight petroleum saturation				
						S-2D: 14"-24" Brown (10yr, 4/1) Medium-fine SAND, trace Silt, trace Gravel, strong Petroleum-like odors, wet				
20						S-2E: 24"-28" Black (10yr, 2/1) SAND and GRAVEL, trace Silt, trace Coal, strong petroleum-like odor,slight petroleum like saturation, wet				
						End of exploration at 15 feet.				
25										
30										

REMARKS

1 - The upper 6 feet was cleared utilizing a soil vacter truck.
2 - The headspace of soil samples was screened for total organic compounds (TVOCs) using a miniRae 3000 photo-Ionization detector (PID) equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.
3 - Water table observed at approximately 8 feet below ground surface.
4 - A groundwater monitoring well of the following construction was installed 10 feet of 2" diameter, schedule 40, flush joint, threaded, 10-slot, PVC well screen at 15 feet below ground surface, 2" diameter schedule 40, flush joint, threaded PVC riser installed from approximately 5 feet below ground surface to 3 feet above ground surface. Filter sand placed in annulus from 5-15 feet below ground surface. Bentonite seal installed from 4-5 feet bgs. Remaining annulus filled with filter sand. Well protected with a stand pipe.

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

GZ-500S

GZA TEMPLATE GEOPROBE; 11/12/2021; 2:54:44 PM

GEOPROBE LOG

GZA GeoEnvironmental, Inc.
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National Grid
642 Allens Ave
Providence, Rhode Island

EXPLORATION NO.: GZ-501S
SHEET: 1 of 1
PROJECT NO: 03.0033554.01
REVIEWED BY:

Logged By: Elliot Maker
Drilling Co.: New England Geotech
Foreman: Maynard Mendoza

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 13
Date Start - Finish: 9/14/2021 -

H. Datum:
V. Datum:

Type of Rig: Geoprobe
Rig Model: N/A
Drilling Method: Geoprobe

Sampler Type: N/A
Sampler O.D. (in.): N/A
Sampler Length (in.): 60
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
09/22/2021	09:04	8 Days	7.50	

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	PID (PPM)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
		0.0				0"-6" Topsoil, Fabric 6"-72" Soil vac Spoils	1 2			
5	S-1	6.0-10.0	48	18	3.3 22.3	S-1 : A: 0"-12" Brown (10yr, 3/2) fine to coarse SAND, trace Gravel, trace Cobble, trace Silt, wet S-1B: 12"-18" Black (10yr, 2/1) SAND and GRAVEL, trace Silt, slight petroleum-like odor, wet	3		FILL	
10	S-2	10.0-13.0	36	10	5.1	S-2 : A: 0"-10" (10YR, 2/2) Dark brown fine to coarse SAND, trace Gravel, trace Silt, wet	4			13
15						End of exploration at 13 feet.				
20										
25										
30										

REMARKS

1 - The upper 6 feet was cleared utilizing a soil vacter truck.
2 - The headspace of soil samples was screened for total organic compounds (TVOCs) using a miniRae 3000 photo-Ionization detector (PID) equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.
3 - Water table observed at approximately 6 feet below ground surface.
4 - A groundwater monitoring well of the following construction was installed 10 feet of 2" diameter, schedule 40, flush joint, threaded, 10-slot, PVC well screen at 13 feet below ground surface, 2" diameter schedule 40, flush joint, threaded PVC riser installed from approximately 3 feet below ground surface to 3 feet above ground surface. Filter sand placed in annulus from 3-13 feet below ground surface. Bentonite seal installed from 2-3 feet below ground surface. Remainig annulus filled with filter sand. Well protected with a stand pipe.

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

GZ-501S

GEOPROBE LOG

GZA GeoEnvironmental, Inc.
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National Grid
642 Allens Ave
Providence, Rhode Island

EXPLORATION NO.: GZ-502S
SHEET: 1 of 1
PROJECT NO: 03.0033554.01
REVIEWED BY:

Logged By: Elliot Maker
Drilling Co.: New England Geotech
Foreman: Maynard Mendoza

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 15
Date Start - Finish: 9/14/2021 -

H. Datum:
V. Datum:

Type of Rig: Geoprobe
Rig Model: N/A
Drilling Method: Geoprobe

Sampler Type: N/A
Sampler O.D. (in.): N/A
Sampler Length (in.): 60
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
09/14/2021	08:32	8 Days	6.75	

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	PID (PPM)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
		0.0				0"-12": 2-Inch Crushed stone, fabric 12"-72": Soil vac Spoils	1 2			
5	S-1	6.0-10.0	48	0		S-1 : No Recovery (loose Soils)	3			
10	S-2	10.0-15.0	60	36	0.1 0.0 0.0	S-2 : A: 0"-6" Brown (10yr, 3/2) PEAT, little Sand S-2B: 6"-30" Brown Gray (10yr, 4/1) Organic SILT, little Wood S-3C: 30"-36" Brown (10yr, 3/3) fine to medium SAND, little Organics, black peet-like band at top of layer	4	10 12	PEAT ORGANIC SILT	15
15						End of exploration at 15 feet.				
20										
25										
30										

REMARKS

1 - The upper 6 feet was cleared utilizing a soil vacter truck.
2 - The headspace of soil samples was screened for total organic compounds (TVOCs) using a miniRae 3000 photo-Ionization detector (PID) equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.
3 - Water table was not observed.
4 - A groundwater monitoring well of the following construction was installed 10 feet of 2" diameter, schedule 40, flush joint, threaded, 10-slot, PVC well screen at 15 feet below ground surface, 2" diameter schedule 40, flush joint, threaded PVC riser installed from approximately 5 feet below ground surface to 3 feet above ground surface, filter sand placed in annulus from 5-15 feet below ground surface, bentonite seal installed from 4-5 feet below ground surface. Remaining annulus filled with filter sand. Well protected with a stand pipe.

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

GZ-502S

GEOPROBE LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

National Grid
642 Allens Ave
Providence, Rhode Island

EXPLORATION NO.: GZ-503S
SHEET: 1 of 1
PROJECT NO: 03.0033554.01
REVIEWED BY:

Logged By: Elliot Maker
Drilling Co.: New England Geotech
Foreman: Maynard Mendoza

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 12
Date Start - Finish: 9/15/2021 -

H. Datum:
V. Datum:

Type of Rig: Geoprobe
Rig Model: N/A
Drilling Method: Geoprobe

Sampler Type: N/A
Sampler O.D. (in.): N/A
Sampler Length (in.): 60
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Stab. Time	Water	Casing
09/15/2021	08:41	7 Days	12.89	

Depth (ft)	Sample No.	Sample Depth (ft.)	Pen. (in)	Rec. (in)	PID (PPM)	Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
		0.0				0"-12": Topsoil, linear fabric 12"-72": Soil vac spoils	1 2			
5									CONCRETE	
	S-1	6.0-10.0	48	32	3.6	S-1 : Gray (3/10, 6yr) medium to fine SAND, trace Gravel, trace Silt, trace Wood chips, blebs sulfur-like staining, purifier box waste-like odor	3			
10	S-2	10.0-12.0	24	20	3.52 54.6	S-2 : A: 0"-10" Brown (10yr, 2/2) medium to fine SAND, trace Gravel, trace Silt, black staining strong coal tar-like odor, moist S-2B: 10"-12" Brown (10yr, 4/2) fine to medium SAND, trace	4			11.8 12
					51.4	Gravel, trace Silt, stone, coal tar-like odor, moist S-2C: 12"-18" Black (10yr, 2/1) medium to fine grained SAND,	5 6			
15					NS	coal-tar saturated, strong coal tar-like odor, wet S-2D: 18"-20" Concrete				
						End of exploration at 12 feet.				
20										
25										
30										

REMARKS

1 - The upper 6 feet was cleared utilizing a soil vacter truck.
2 - Linear was encountered approximately 12" below ground surface. Linear was cut for excavation and re-sealed around installed replacement monitoring well.
3 - The headspace of soil samples was screened for total organic compounds (TVOCs) using a miniRae 3000 photo-Ionization detector (PID) equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard. NS= Not Sampled.
4 - Refusal was hit at approximately 12 feet below ground surface.
5 - Water table was not observed.
6 - A groundwater monitoring well of the following construction was installed 10 feet of 2" diameter, schedule 40, flush joint, threaded, 10-slot, PVC well screen at 12 feet below ground surface, 2" diameter schedule 40, flush joint, threaded PVC riser installed from approximately 2 feet bgs to 3 feet above ground surface; filter sand placed in annulus from 2-12 feet bgs. Bentonite seal installed from 1-2 feet bgs. Remaining annulus filled with filter sand. well protected with a stand pipe.

Field Screening performed with PID equipped with a 10.6 eV lamp calibrated to a 100 ppm isobutylene standard.See Log Key for explanation of sample description and identification procedures. Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

GZ-503S

GZA TEMPLATE GEOPROBE; 11/12/2021; 2:54:47 PM