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TRANSWESTERN PIPELINE COMPANY
An ENERGY TRANSFER Company

May 21, 2020

Mr. Kevin Pierard
New Mexico Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6313

RE: Submittal of 2019 Groundwater Remediation Activities
For the Former Surface Impoundments Annual Report
Roswell Compressor Station No. 9
Transwestern Pipeline Company, LLC
Roswell, Chavez County, New Mexico
NMOCD Case #GW-052/EPA ID NO. NMD986676955

Dear Mr. Pierard:

In general accordance with *Section IX – Reporting Requirements* of the March 2013 *Stipulated Final Order* for Transwestern Pipeline Company, LLC's (Transwestern) Roswell Compressor Station No. 9 (Site), attached for your review is the *2019 Groundwater Remediation Activities for the Former Surface Impoundments Annual Report* for the site.

If you have any questions or comments regarding this submission, please do not hesitate to contact me at 210.870.2725 (office) or JD Haines of EarthCon Consultants, Inc. at (317) 450-6126.

Sincerely,

SBoultinghouse

Stacy Boultinghouse, PG(TX4889/LA73)
Environmental Manager
Transwestern Pipeline Company, LLC
Stacy.Boultinghouse@energytransfer.com

Attachment: 2019 Groundwater Remediation Activities for the Former Surface Impoundments Annual Report

ec: Dave Cobrain, Hazardous Waste Bureau, New Mexico Environment Department
Michiya Suzuki, Hazardous Waste Bureau, New Mexico Environment Department
Brad Billings, Environmental Bureau, New Mexico Oil Conservation Division
Jim Griswold, Environmental Bureau, New Mexico Oil Conservation Division
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New Mexico State Land Office
Laurie King, US Environmental Protection Agency - Region 6
Larry Campbell - Transwestern Pipeline Company (Roswell, NM)
JD Haines - EarthCon Consultants, Inc.
Steve Diamond, EarthCon Consultants, Inc.

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REPORT OF 2019 GROUNDWATER REMEDIATION ACTIVITIES
FORMER SURFACE IMPOUNDMENTS
TRANSWESTERN COMPRESSOR STATION NO. 9
(ROSWELL COMPRESSOR STATION)
6381 NORTH MAIN STREET
ROSWELL, CHAVES COUNTY, NEW MEXICO
NMOCD GW-052
NMED 1656; EPA ID NMD986676955

PREPARED FOR:

TRANSWESTERN PIPELINE COMPANY, LLC
1300 MAIN
HOUSTON, TEXAS 77002

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EarthCon Project No. 02.20180005.00

May 2020

Report of 2019 Groundwater Remediation Activities
Former Surface Impoundments
Transwestern Compressor Station No. 9
(Roswell Compressor Station)
6381 North Main Street
Roswell, Chaves County, New Mexico
NMOCD GW-052
NMED 1656; EPA ID NMD986676955

Prepared For:

Transwestern Pipeline Company, LLC
1300 Main
Houston, TX 77002

May 2020

EarthCon Project No. 02.20180005.00

EarthCon Consultants, Inc. (EarthCon) is submitting to Transwestern Pipeline Company, LLC (Transwestern) this *Report of 2019 Groundwater Remediation Activities* for the Roswell Compressor Station in Roswell, Chaves County, New Mexico. This report has been prepared for the exclusive use of and reliance by Transwestern, and may not be relied upon by any other person or entity without the express written authorization of EarthCon.

Any reliance, use, or re-use of this document (or the opinions, findings, conclusions, or recommendations if any represented herein), by parties other than those expressly authorized by EarthCon is at the sole risk of those parties. This report was prepared by or performed under the direction of the EarthCon Professionals listed below and approved by Transwestern.

Signed:

James Mullooly
Project Professional
EarthCon Consultants, Inc.

Steve Diamond, PE (GA, MO, SC, MI)
Senior Engineer
EarthCon Consultants, Inc.

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Principal Consultant
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Date: May 21, 2020

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Report of 2019 Groundwater Remediation Activities
Former Surface Impoundments
Transwestern Compressor Station No. 9
(Roswell Compressor Station)
6381 North Main Street
Roswell, Chaves County, New Mexico
NMOCD GW-052
NMED 1656; EPA ID NMD986676955

Prepared For:

Transwestern Pipeline Company, LLC
1300 Main
Houston, TX 77002

May 2020

Certification Statement
40 CFR 270.11(d)(1)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

May 21, 2020

Stacy Boultinghouse, PG (TX, LA)
Environmental Manager
Transwestern Pipeline Company, LLC

Date

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EXECUTIVE SUMMARY

This *Report of 2019 Groundwater Remediation Activities* was prepared by EarthCon Consultants, Inc. (EarthCon) on behalf of Transwestern Pipeline Company, LLC (Transwestern) for the Former Surface Impoundments at the Transwestern Compressor Station No. 9 (also known as the Roswell Compressor Station) property located at 6381 North Main Street in Roswell, New Mexico. On March 13, 2013, the New Mexico Environment Department (NMED) issued a Stipulated Final Order (SFO) that governs activities associated with the Former Surface Impoundments. This annual groundwater report was developed in general accordance with *Section IX.D – Reporting Requirements* of the SFO.

The former surface impoundments were historically used to store waste hydrocarbons, including pipeline condensate, pigging wastes, spent solvents, and other wastes and debris from pipeline maintenance activities conducted at the Roswell Compressor Station. The wastes were removed from the former surface impoundments and the area was backfilled with clean soil in 2001. A soil and groundwater remediation system was subsequently designed and installed to address dissolved-phase and phase separated hydrocarbons (PSH) detected in groundwater.

The remediation system in operation at the Roswell Compressor Station uses multiphase extraction (MPE) technology consisting of a soil vapor extraction (SVE) and treatment unit and a groundwater/PSH recovery and treatment unit. The recovery well network currently consists of 9 SVE-only wells and 35 MPE wells. A network of 30 monitoring wells (29 wells installed in the Uppermost Aquifer and one well installed in the deeper regional San Andres Formation Aquifer) is used to assess groundwater conditions within the Project Area.

During 2019, the SVE portion of the recovery system operated from January through December. During this time the system operated full-time except for periods of maintenance and during the semi-annual sampling events. During the 2018 reporting year, the SVE portion of the system was pulsed which improved efficiency of the system and recovery. The SVE portion of the system was returned to a continuous operation state in February 2019 as per NMEDs request. The groundwater portion of the system operated from June through October in 2019 due to maintenance and sampling challenges. As during prior years of operation, the groundwater portion of the system was also manually deactivated in January, February, March, April, November, and December of 2019 due to freezing temperatures.

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The remediation system recovered approximately 5,767 pounds of vapor-phase hydrocarbons (or approximately 910 equivalent gallons) in 2019 during SVE system operation. The groundwater/PSH recovery system treated and discharged approximately 23,620 gallons of groundwater, removed approximately 2.5 pound (approximately 0.41 equivalent gallons) of dissolved-phase hydrocarbons and recovered approximately 1,550 gallons (9,811 pounds) of PSH. A total of approximately 15,600 pounds of hydrocarbons were removed by the system in 2019. This compares to a total of approximately 16,800 pounds of hydrocarbon removed in 2018 (8,366 pounds of vapor-phase hydrocarbons, 1,330 gallons (8,432 pounds) of PSH, and 3.12 pounds of dissolved phase hydrocarbons). Removal rates for the last five years of operation are included below in **ES.1**. as a comparison.

ES.1 - Historical Hydrocarbon Removal Summary

Year	Extracted Groundwater (gals)	PSH Recovered (gal)	Dissolved-Phase Mass Removal (gal)	Vapor-Phase Mass Removal (gal)	Total Mass Removed (lbs)
2015	64,140	310	0.464	380	3
2016	137,650	350	0.9	320	5
2017	90,550	1,550	1.4	480	8.6
2018	41,120	1,330	0.504	1,320	3.12
2019	23,620	1,550	0.41	910	2.58

While the groundwater/PSH recovery portion of the remediation system was operational, water samples were collected from four locations in the treatment process to assess treatment efficiency and compliance with discharge requirements. Additionally, semi-annual groundwater sampling was conducted in June 2019 and November 2019/January 2020 to assess groundwater conditions.

Consistent with historical data, the June 2019 and November 2019/January 2020 groundwater elevation data indicated groundwater flow in the Uppermost Aquifer was to the north/northeast on the northern portion of the Project Area and to the southeast on the southern portion of the Project Area. The divide in the hydraulic gradient is located near the northeast corner of the Facility, indicating the presence of a complex water-bearing unit with areas of preferential flow.

During the 2019 semi-annual groundwater sampling events, PSH was present in groundwater monitoring well, SVE well and MPE wells located in the vicinity of the Former Surface Impoundments. Additionally, dissolved benzene, toluene, ethylbenzene, and xylenes (BTEX),

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and 1,1-DCE were detected in groundwater at concentrations exceeding the applicable cleanup levels during the sampling events. The data indicates delineation of PSH and dissolved constituents of concern to applicable New Mexico Water Quality Control Commission's (NMWQCC) standards and the EPA Maximum Contaminant Levels (MCLs) was maintained within the existing monitoring network.

Based on the groundwater remediation activities completed in 2019, Transwestern recommends continued operation of the remediation system in 2020 to recover PSH and reduce dissolved-phase hydrocarbons, continued semi-annual groundwater monitoring, and continued monitoring of the effluent from the SVE system and discharge from the groundwater treatment system.

During the time of annual report development, further evaluation of the PSH presence (4.64 feet, March 2020) in SVE-23 was performed in April 2020. Based on field observations, the physical properties of the PSH appear to have coated the optical lens of the probe causing groundwater not to be detected by the probe and PSH thickness measurement on March 25, 2020 to be skewed. Also, the detection of PSH may be residual amounts that may have been collected in the well sand pack overtime. Further PSH monitoring and manual bailing will continue for SVE-23 in 2020 to monitor and recover PSH, if present. Future remedial action will be evaluated based results of the PSH monitoring activities.

In addition to the PSH evaluation in SVE-23, field activities were underway to evaluate the suspected perch zone in April 2020. Groundwater was extracted from recovery well RW-1 to evaluate groundwater extraction rates and recharge. Adjacent shallow wells SVE-27 and SVE-28 were used to observe drawdown influences. An average groundwater extraction rate of approximately 32 gallons per minute (gpm) was maintained for approximately two hours but the extraction process was shortly deactivated after groundwater volumes unexpectedly reached the storage tank capacity. The evaluation was temporarily suspended. The evaluation of the perch aquifer will resume and continue in 2020 and recommendations for future action of the perch aquifer will be provided in the 2020 Annual Monitoring Report.

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1.0 INTRODUCTION

This *Report of 2019 Groundwater Remediation Activities* was prepared by EarthCon Consultants, Inc. (EarthCon) on behalf of Transwestern Pipeline Company, LLC (Transwestern) to document on-going corrective actions associated with the Former Surface Impoundments at the Transwestern Compressor Station No. 9 (also known as the Roswell Compressor Station) property, located at 6381 North Main Street in Roswell, New Mexico (the "Site").

The Site consists of the Roswell Compressor Station and the area undergoing corrective action (the "Project Area") (**Figure 1-1** and **Figure 1-2**). On March 13, 2013, the New Mexico Environment Department (NMED) issued a Stipulated Final Order (SFO) that governs environmental activities conducted within the Project Area. This report was developed in general accordance with *Section IX.D – Reporting Requirements* of the SFO.

The Facility is an active natural gas compressor station, owned and operated by Transwestern, located approximately 8 miles north of the city center of Roswell, New Mexico along the eastern side of U.S. Highway 285. The Facility occupies approximately 77 acres of land in Section 21 (SW¼ of the SW¼) and Section 28 (NW¼ of the NW¼) of Township 9S and Range 24E, Chaves County, New Mexico (**Figure 1-1**). Access is via U.S. Highway 285, and the entire Facility is secured by a chain-link fence with locked gates.

The Project Area encompasses a portion of the northeast corner of the Facility and a portion of a 40-acre easement of land to the northeast, leased from the New Mexico State Land Office (SLO) State Trust Land for remediation and monitoring purposes (**Figure 1-2**). There are no adjacent structures on either the Facility or the State Land other than those associated with the remediation system. Most of the off-site extraction and monitoring wells are located within a fenced perimeter.

The Facility is located along the Transwestern natural gas pipeline that extends from Texas to the Arizona/California border, and serves as the district office for Transwestern's New Mexico operations. The compressor station services two 30-inch main lines and two 24-inch lateral pipelines. The primary function of the compressor station is to boost the pressure of the natural gas stream by means of compressors powered by natural gas-fueled internal combustion engines. Additionally, the Facility conducts gas transmission pipeline maintenance operations that generate waste hydrocarbons, including pipeline condensate, pigging wastes, spent solvents, and other wastes and debris, which were historically discharged to the former surface impoundments (also

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referred to as Pits 1 and 2). Currently, wastes generated as a result of operations are transported offsite for disposal in accordance with all local, state and federal requirements.

The historic wastes were removed from the former surface impoundments and the excavations were lined with a polyethylene liner and backfilled with clean soil in 2001. A soil and groundwater remediation system was subsequently designed and installed to address dissolved and phase separated hydrocarbons (PSH) detected in groundwater in 2002/2003. The soil vapor extraction (SVE) portion of the system began operation in March 2003, and the groundwater/PSH recovery portion of the system began operation April 2004.

The remediation system consists of SVE blowers with a treatment unit, a groundwater/PSH recovery and treatment unit, and a network of 9 active SVE-only wells and 35 multi-phase extraction (MPE) wells (**Figures 1-3** and **1-4**). Three additional SVE wells (SVE-1A, 2A, and 3) are inactive at the Site. Vapor-phase hydrocarbons are extracted via SVE-only wells and MPE wells and routed to two Baker Furnace thermal oxidizer units for treatment. Groundwater and PSH are recovered by pneumatic pumps installed in the MPE recovery wells. The recovered fluids are conveyed to a 210-barrel aboveground storage tank that serves as a surge tank and separation unit for PSH and groundwater. Separated groundwater is conveyed to a treatment train consisting of an air stripper followed by a particulate filter vessel and two additional liquid-phase granulated activated carbon (GAC) units in series. The treated water is then conveyed to an irrigation water tank for dispersal via an irrigation system. PSH separated in the surge tank is removed by a vacuum truck and sent for recycling to a permitted off-site facility periodically. The vapor stream from the air strippers is treated via two vapor-phase GAC units followed by discharge to the atmosphere.

Typically, the SVE portion of the system operates year-round, and groundwater/PSH recovery occurs from spring to fall, with brief shutdowns for repair and maintenance. However, for the 2019 reporting year the system operated from June to October due to maintenance and groundwater sampling challenges. In addition, the system is deactivated for 48 to 72 hours in preparation for semi-annual monitoring.

Currently, a network of 30 monitoring wells (29 installed in the Uppermost Aquifer and one installed in the deeper regional San Andres Formation Aquifer) is used to assess groundwater conditions within the Project Area.

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This report documents groundwater remediation and monitoring activities conducted at the Project Area during year 2019. Field activities were conducted by CMB Environmental & Geologic Services, Inc. (CMB) of Roswell, New Mexico.

2.0 SCOPE OF ACTIVITIES

The activities performed at the Site during 2019 include the following and are summarized below:

- Semi-annual groundwater monitoring;
- Remediation system operation, maintenance, and monitoring;
- PSH removal and evaluation in well SVE-23;
- Evaluation of a suspected perched aquifer

3.0 SEMI-ANNUAL GROUNDWATER MONITORING

Semi-annual groundwater sampling to assess groundwater conditions was conducted in June 2019 and November of 2019/January of 2020 by CMB in general accordance with the SFO. In November the sampling event was postponed due to unforeseen circumstances. The groundwater monitoring network at the Site consists of 30 monitoring wells, of which 17 are included within the monitoring plan and the remaining wells are used for gauging. Groundwater samples were collected from 14 of these monitoring wells during the June 2019 sampling event and from 23 of these monitoring wells during the November 2019/January 2020 sampling event, in general accordance with the approved *Sampling and Analysis Plan* (SAP) presented in **Table 3-1**.

In correspondence dated August 17, 2018, NMED requested that groundwater samples be collected for wells RW-1 and SVE wells during the 2019 semi-annual sampling events. SVE-1A, SVE-2A, SVE-3, SVE-24 through SVE-26 were gauged and determine to be dry during the two sampling events. During the first semiannual sampling event, SVE-23 and SVE-27 were not accessible due to a snake hazard and SVE-22 was reported to contain PSH. During the second semiannual sampling event, SVE-23 contained PSH and SVE-22 and SVE-27 were reported dry. Two active SVE wells (SVE-28, SVE-30) and one former recovery well (RW-1) were sampled during the June 2019 and November 2019/January 2020 sampling events to assess shallow groundwater conditions. In correspondence dated April 23, 2019, NMED requested groundwater samples to be collected in wells MW-10, MW-11, and MW-17 in November 2019.

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Prior to commencing semi-annual groundwater gauging and sampling, the remediation system was manually deactivated for a period of 48 to 72 hours. Depth to PSH, if present, and depth to groundwater was measured in each monitoring well and MPE well using an interface probe, which consists of an optical sensor probe capable of distinguishing between PSH and groundwater. Apparent PSH thickness and water levels were recorded to the nearest 0.01-foot and the data is presented in **Table 3-2**.

Prior to sampling, the selected monitoring wells were purged and monitored for stabilization of water quality parameters, including pH, specific conductance, dissolved oxygen (DO), oxidation-reduction potential (ORP), and temperature using a calibrated YSI Meter. Purging was considered complete when the measured parameters of the purge water stabilized to within 10 percent for three consecutive measurements. Field parameters recorded from the June 2019, November 2019/January 2020, and February 2020 sampling events are presented in **Table 3-3**. Historical field parameters recorded from the three sampling events prior to the 2019 sampling events are included in **Table 3-4**.

A combination of disposable bailers and bladder pumps with dedicated tubing was used to purge and collect groundwater samples from selected monitoring wells. The groundwater samples collected during the semi-annual sampling event were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) via EPA Method 8260 or for Volatile Organic Compounds (VOCs) via EPA Method 8260B in June 2019, and in November 2019/January 2020 for BTEX via EPA Method 8260 or for VOCs via EPA Method 8260Bin accordance with the SAP. Quality control samples including groundwater sample duplicates, field blanks, equipment blanks, and trip blanks were collected during the semi-annual sampling events. Purged groundwater and equipment decontamination water were collected in a dedicated 55-gallon drum during sampling and then transferred to the surge tank for on-site treatment and disposal as described in Section 1.0. Copies of the field documentation for the June 2019, November 2019/January 2020 and February 2020 sampling events are included in **Appendix A**.

3.1 Groundwater Monitoring Regulatory Criteria

Groundwater cleanup levels (GCLs) were identified for evaluating analytical data for groundwater samples collected during the semi-annual sampling events, in accordance with Section VI.A. of the March 2013 SFO for the Site. The GCLs shown in **Table 3-5** were modified using the New Mexico Water Quality Control Commission's (NMWQCC) standards amended by the New Mexico

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Administrative Code (NMAC) December 2018 and were identified as described in the following paragraphs.

The target constituents-of-concern (COCs) for the Project Area include BTEX, 1,1-dichloroethane (1,1-DCA), and 1,1-dichloroethene (1,1-DCE). The GCLs for the target COCs were identified using the NMWQCC standards amended by the NMAC December 2018 and the EPA Maximum Contaminant Levels (MCLs). Where standards exist in both regulations, the lower of the two levels is used as the applicable cleanup standard. If neither a NMWQCC standard nor an MCL has been established for a COC, then the cleanup level is identified as the screening level for tap water in Table A-1 of the February 2019 NMED *Risk Assessment Guidance for Site Investigation and Remediation*, or the EPA Region 6 Screening Levels for tap water.

The Project Area has been in active remediation since 2001 and the remediation system formerly operated under NMOCD's formal Discharge Permit GW-052. The NMOCD determined that the Discharge Permit is not necessary for the Site, and it is more practical to regulate the Site under a *Stage 2 Abatement Plan* (AP). In December 2015, the Discharge Permit for the Site was allowed to expire. A Stage 2 AP for the Site was submitted to the NMOCD and was approved on March 14, 2016.

3.2 Groundwater Monitoring & Chemical Analytical Data Results

The water bearing unit at the Site has been reported as a perched aquifer within the area of the former surface impoundments, an uppermost aquifer within which most of the monitoring and remedial activities take place, and the deeper San Andres Formation Aquifer. To date, the deeper San Andres Formation Aquifer has not been impacted by the release associated with the Former Surface Impoundments. Future evaluations will be performed to confirm the presence of the perched aquifer in 2020. Well locations are illustrated in **Figure 3-1** and a summary of well construction information is provided in **Table 3-6**.

Groundwater elevations shown in **Table 3-2** were calculated using the June 2019 and November 2019/January 2020 groundwater elevation data collected from the Site groundwater monitoring wells and top-of-casing data from a survey conducted by PR Patton & Associates in October 2013. Groundwater elevations for the potentiometric surface maps were not included from RW-1 and the SVE wells as these locations are completed at shallower depths above the uppermost aquifer.

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The potentiometric surface maps for the Uppermost Aquifer presented in **Figures 3-2, 3-3a**, and **3-3b** indicate that groundwater flows generally to the north on the northern portion of the Project Area and to the southeast on the southern portion of the Project Area. The divide in the hydraulic gradient is located near the northeast corner of the Facility, indicating the presence of a complex water-bearing unit with areas of preferential flow.

Based on the groundwater elevation data, the hydraulic gradient for the northern component of groundwater flow, between monitoring wells MW-12 and MW-40, was 0.015 ft/ft during the June 2019 sampling event and 0.020 ft/ft during the November 2019/January 2020 sampling event, which appears to be consistent with historical data. The hydraulic gradient for the southeastern component of groundwater flow, between monitoring wells MW-16 and MW-35, was 0.006 ft/ft during the June 2019 sampling event and 0.0057 ft/ft during the November 2019/January 2020 sampling event, which appears to be consistent with historical data.

A review of historical groundwater elevation data for the Site monitoring wells (**Table 3-2**) indicates the Uppermost Aquifer within the Project Area has experienced an average decrease in groundwater level elevation of 1.03 feet between 2009 and 2019. The groundwater elevation in MW-24D, installed in the deeper regional San Andres Formation Aquifer, decreased by 4.43 feet between 2009 and 2019.

3.2.1 PSH Thickness

Groundwater gauging data collected from Site monitoring and recovery wells during the June 2019 sampling event indicates that the average apparent PSH thickness was 1.10 feet, with a maximum of 2.40 feet measured in MPE-10. Groundwater gauging data collected from Site monitoring and recovery wells during the November 2019/January 2020 sampling event indicates that the average apparent PSH thickness was 1.0 feet, with the maximum thickness of 2.80 feet measured in MPE-40.

3.2.1.1 Suspected Perched Aquifer

The June 2019 groundwater gauging data indicates that SVE-22 showed a low level of PSH (0.01ft), while SVE-23 showed 0.65ft of PSH during the November 2019/January 2020 sampling event. In June 2019, further evaluation was performed for SVE-22 and indicated a PSH thickness of 0.01 ft considering that the depth of PSH was recorded at 32.74 feet below top of casing (btoc) and depth to bottom of the SVE well was recorded at 32.75 feet (btoc). Based on the evaluation,

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the optical lens of the interface probe was being coated by black biofilm buildup located at the bottom of the SVE well rather than detecting the presence of PSH.

During the June 2019 semi-annual groundwater monitoring event, groundwater levels and PSH thicknesses were not evaluated in wells SVE-23 and SVE-27 due to a snake hazard. In an NMED comment letter dated February 21, 2020, NMED requested that the hazard be evaluated, and collect he required data from the aforementioned wells. On March 25, 2020, SVE-27 was gauged as dry and SVE-23 was found to contain 4.64 feet of apparent PSH thickness. On April 4 and April 6, 2020, removal of PSH was performed on SVE-23 to evaluate thickness and rebound. Prior to manual bailing on April 4, 2020, approximately 0.9 foot of PSH thickness was measured in SVE-23 and afterwards, PSH was not detected. Prior to manual bailing on April 6, 2020, approximately 0.4 foot of PSH thickness was measured in SVE-23 and afterwards, PSH thickness was measured to be 0.02 foot. A total of approximately 0.07 gallon of PSH was recovered via manual bailing. On April 23, 2020, PSH thickness was measured to be approximately 0.4 foot in SVE-23, which approximately 0.04 gallon of PSH was recovered via manual bailing. Based on field observations, the physical properties of the PSH appear to have coated the optical lens of the probe causing groundwater not to be detected by the probe and PSH thickness measurement on March 25, 2020 to be skewed. Also, the detection of PSH may be residual amounts that may have been collected in the well sand pack overtime. Further PSH monitoring and manual bailing will continue for SVE-23 in 2020 to monitor and recover PSH, if present. In addition, the SVE-23 will redeveloped using clean water and bailing techniques to remove potential trapped PSH in the well sand pack. Field notes are included in **Appendix A**.

3.2.1.2 Uppermost Aquifer

The areal extent of PSH in the Uppermost Aquifer, as measured during the June 2019 and November 2019/January 2020 semi-annual sampling events, remains delineated within the Project Area and is consistent with 2018 data. (**Figures 3-4** and **3-5**). Current and historical groundwater gauging data is presented in **Table 3-2**.

3.2.2 Groundwater Analytical Results

Groundwater samples were collected and analyzed for BTEX by EPA method 8260 or for VOCs via EPA Method 8260B in accordance with the SAP. The analytical results for groundwater samples collected during the June 2019 and November 2019/January 2020 sampling events are

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summarized in **Table 3-5** and the laboratory analytical reports are included in **Appendix B**. During the November 2019 sampling event, groundwater was inadvertently not sampled from MW-10. MW-11, and MW-17, which were subsequently sampled in February 2020. Due to PSH detections, a groundwater sample was not collected from MW-16 in June 2019 and November 2019/January 2020, and SVE-23 in January 2020.

According to the analytical results, BTEX were not detected above reporting limits in MW-10, MW-11, MW-13, MW-14, MW-17, MW-20 through MW-21, MW-24D, MW-27, MW-29, MW-32, MW-34, MW-35, MW-37, MW-39, MW-40, MW-41, MW-42. Analytical data indicates that BTEX was detected above reporting limits in wells SVE-28, SVE-30, and RW-1, but benzene was the only constituent in wells SVE-30 and RW-1 that exceeded GCLs / Analytical data indicates that other VOCs were detected in MW-20, MW-22, MW-26, MW-39, MW-41, MW-42, SVE-29, SVE-30, and RW-1 but only 1,1-DCE was detected at concentrations exceeding GCLs in wells MW-26, and MW-39 and 1,1 DCA was detected in concentrations exceeding GCLs in wells SVE-30 during the June 2019 and November 2019/January 2020 semi-annual sampling events. Based on the 2019 analytical data, the areal distribution of BTEX, 1,1-DCA, and 1,1-DCE in groundwater remains delineated within the Project Area and is consistent with the 2018 data (**Figures 3-6** through **3-11**).

Analytical results for the blanks are included in the laboratory data packages in **Appendix B** and indicate that there were no target analyte detections. For quality assurance purposes, the relative percent difference (RPD) of the reported concentrations between the original samples and their duplicates was calculated for each semi-annual sampling event. The RPDs were at or below 10% for each sampling event, with the calculations included in **Appendix B**.

3.3 Perch Aquifer Evaluation

On Aril 1, 2020 groundwater was extracted from recovery well RW-1 to evaluate the suspected perched aquifer. Adjacent shallow wells SVE-27 and SVE-28 were used to observed drawdown influences. SVE-27 was determined to be dry prior to extraction and remained dry through the evaluation. A 4-inch diameter pump with 1-inch outside diameter tubing was inserted into RW-1 and groundwater was extracted at an average rate of approximately 32 gallons per minute (gpm). The average groundwater extraction rate was maintained for approximately two hours, but the extraction process was shortly deactivated after groundwater volumes unexpectedly reached the storage tank capacity, and the evaluation was suspended. The evaluation of the perch aquifer

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will resume and continue in 2020 and recommendations for future action of the perch aquifer will be provided in the 2020 Annual Monitoring Report.

4.0 REMEDIATION SYSTEM OPERATION, MAINTENANCE, AND MONITORING

During 2019, the SVE portion of the recovery system was operational year-round and included all circuits except for when the SVE system was deactivated for equipment repairs and semi-annual sampling events.

The groundwater/PSH recovery portion of the remediation system operated from June 28, 2019 to October 30, 2019, except for periods of maintenance and during the semi-annual sampling events. Specifically, the groundwater/PSH recovery portion of the remediation system was deactivated in January, February, March, April and early November and December 2019 due to freezing temperatures, and in April, May and June 2019 for system repairs and in preparation of sampling events. The groundwater/PSH recovery portion of the remediation system was deactivated 48 to 72 hours prior to the 2019 semi-annual sampling events (May 2019 and November 2019/January 2020).

The remediation system was monitored on a weekly basis to assess for continuous operation of components, maintenance needs, and early detection of potential leaks. System readings, such as flow rates, pressure, and temperature, were collected by the operator on a routine basis to monitor system performance and treatment efficiencies. During this reporting period, maintenance activities of the groundwater recovery system consisted of repairing the air compressor, cleaning the air stripper, changing bag and sock filters, cleaning high sump GACs, replacing the liquid level float switch on the surge tank, repairing stress cracks and replacement of the equalization tank, replacing the O-ring on the thermostat, replacing the chart recorder paper, and winterizing the air stripper in preparation for cold temperatures. Maintenance activities on the SVE portion of the treatment system during this reporting period included installing new 55-gallon GAC drums on the air stripper, repaired flex hose on the west baker unit, repairing a 4" line, repairing the outlet on the surge tank, repairing an airline on MPE-27, and replacing the chart recorder paper periodically.

Monthly samples were collected from June through October 2018 from the groundwater treatment system at four locations in the treatment process: at the inlet of the air-stripper (Pre-Treatment); at the outlet of the air stripper (Post Air Stripper); at the outlet of the first GAC unit (Between

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GACs); and at the outlet of the irrigation water holding tank (Post-Treatment). The samples collected from the Pre-Treatment, Post Air Stripper, and Between GACs locations were analyzed for BTEX via method 8021B, and the Post-Treatment sample was analyzed for anions via EPA method 300.0, dissolved metals via EPA method 200.7, and VOCs via EPA method 8260B. In addition, vapor readings are collected bimonthly along the process line of the vapor-phase granular carbon connected to the air stripper air exhaust port. Readings were inadvertently not collected by field personnel in October 2019. Monitoring data is summarized in **Table 4-5**.

Influent air samples from the process pipes prior to entering the east and west Baker Furnaces were collected and analyzed for total VOCs (TVOCs) by EPA Method TO-15 in April, June, and September 2019, and January 2020. Total VOCs concentrations are presented in **Table 4-1**.

4.1 Soil Vapor Extraction System Monitoring Results

The average combined air flowrate of the SVE system was approximately 320 cubic feet per minute (cfm) with an applied vacuum ranging between 18 and 100 inches of water. The two thermal oxidizers maintained an average chamber treatment temperature of 1,537^{o}F, which is above the required thermal destruction temperature of 1,400^{o}F. To improve mass recovery, the vacuum extraction efforts were isolated for each circuit periodically throughout 2018 in an effort to pulse the system for optimization purposes. At the request of NMED, all circuits were placed back in full operation in February 2019 and pulsing the system was discontinued.

Air samples of influent vapor were collected from the Baker Furnaces in April, June, and September 2019, and January 2020 and were analyzed for TVOCs using EPA method TO-15. Analytical data results summarized in **Table 4-1** indicate that the SVE system recovered approximately 5,767 pounds (or about 910 equivalent gallons) of vapor-phase TVOCs in 2019, compared to the approximately 8,366 pounds (or about 1,320 gallons) removed in 2018. Historical recovery amounts are provided in **Table 4-6.**

Laboratory data packages are included in **Appendix C**. Historical SVE data was analyzed for TPH in the gasoline range organics (GRO) via EPA method 8015D. These historical tables have been included in **Appendix D**.

4.2 Groundwater Treatment System Monitoring Results

The groundwater extraction flowrate averaged 0.012 gallons per minute (gpm) in 2019. Operation records for the irrigation system presented in **Table 4-2** indicate that the volume of groundwater

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recovered, treated, and discharged in 2019 was approximately 23,620 gallons. According to **Table 4-3**, approximately 2.5 pound (0.41 equivalent gallons) of dissolved-phase hydrocarbons were removed by the groundwater/PSH recovery system in 2019. The amount of dissolved phase hydrocarbons removed in 2019 appears to have decreased compared to 2018, during which 3.1 pounds (0.50 equivalent gallons) of dissolved phase hydrocarbons were removed from approximately 41,420 gallons of treated groundwater. A total of approximately 70 pounds of dissolved TVOCs has been removed by the groundwater remediation system since 2009. In addition, approximately 1,550 gallons of PSH accumulated in the surge tank in 2019, which is an increase from the amount of PSH accumulated in the surge tank in 2018 (1,330 gallons). Historical PSH recovery volumes are provided in **Table 4-6.**

Monthly water treatment samples were collected between June and October 2019. Samples from the locations identified as Pre-Treatment, Between GACs, and Post Air Stripper were analyzed for BTEX via EPA Method 8021B, and the Post Treatment sample was analyzed for anions via EPA method 300.0, dissolved metals via EPA method 200.7, and VOCs via EPA method 8260B. The analytical data for these samples demonstrates that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater. Furthermore, analytical data for the Post-Treatment sample indicate that BTEX was not detected above laboratory reporting limits. Analytical data for the monthly samples is summarized in **Table 4-4** and laboratory data packages are included in **Appendix C**.

5.0 SUMMARY OF FINDINGS AND CONCLUSIONS

Based on the information presented in the previous sections regarding the operation of the remediation system installed at the Project Area, the following findings and conclusions are offered:

- The 2019 groundwater gauging data identified a northern component of groundwater flow with a gradient of 0.015 ft/ft and 0.020ft/ft during the June 2019 and November 2019/January 2020 sampling events respectively, and a southeastern component of groundwater flow with a gradient of 0.006 ft/ft during the June 2019 sampling event and 0.0056 ft/ft during the November 2019/January 2020 sampling event. These gradients are generally consistent with previous years' observations.

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- Historical gauging data for the Site monitoring wells indicates that between 2009 and 2019 groundwater elevation in the Uppermost Aquifer of the Project Area has decreased by an average of 1.03 feet and groundwater elevation in the deeper San Andres Formation Aquifer has decreased by 4.43 feet.

- Groundwater gauging data collected from the Site monitoring and recovery wells during the June 2019 and November 2019/January 2020 semi-annual groundwater monitoring events indicates that PSH remains delineated within the Project Area. The average apparent thicknesses of PSH measured in 2019 were 1.02 feet during the June 2019 sampling event and 0.95 feet during the November 2019/January 2020 sampling event. The maximum apparent thicknesses of PSH measured in 2019 was 2.4 feet in MPE-10 during the June 2019 sampling event and 2.80 feet in MPE-40 during the November 2019/January 2020 sampling event.

- Analytical data from the 2019 semi-annual groundwater monitoring events indicates that BTEX and 1,1-DCE were detected at dissolved concentrations exceeding the GCLs in six monitoring wells. These exceedances are within the existing monitoring network. Benzene exceeding the GCLs is closely associated with observable PSH. 1,1-DCE concentrations are generally consistent with previous results.

- During 2019, the SVE portion of the recovery system operated year-round except for periods of maintenance and prior to sampling events. The groundwater/PSH recovery portion of the system operated full-time from June to October except for periods of system maintenance, and the semi-annual sampling events. Approximately 5,767 pounds of vapor-phase TVOCs (approximately 910 equivalent gallons) were recovered by the SVE technology.

- The groundwater/PSH recovery system recovered, treated, and discharged 23,620 gallons of groundwater in 2019. Approximately 2.5 pounds of dissolved-phase BTEX hydrocarbons were removed by the groundwater/PSH recovery system in 2019. A total of approximately 71 pounds of dissolved-phase hydrocarbons have been removed by the system since May 2009. The groundwater/PSH recovery system recovered approximately 1,550 gallons (approximately 9,811 pounds) of PSH in 2019. In total, approximately 15,600 pounds of hydrocarbons were removed by the system in 2019.

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- Well SVE-23 was evaluated for PSH thickness and rebound in April 2020. Additional gauging and PSH removal were conducted for SVE-23 to evaluate PSH rebound and to evaluate future remedial investigation or actions.
- In April 2020, groundwater was extracted from recovery well RW-1 to evaluate a suspected perched aquifer. Groundwater extraction was conducted for two hours and water levels were monitored in RW-1 and SVE-28 during this time. Extraction was deactivated after groundwater volumes unexpectedly reached the storage tank capacity, and the evaluation was temporarily suspended. The evaluation of the perch aquifer will resume and continue in 2020 and recommendations for future action of the perch aquifer will be provided in the 2020 Annual Monitoring Report. Two semiannual sampling events were completed for the recovery well RW-1, several SVE wells, and monitoring wells MW-10, MW-11, and MW-17 as requested by NMED.
- Samples collected on a monthly basis between June and October 2019 from the groundwater treatment system demonstrate that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater.

Based on the 2019 groundwater data, the groundwater treatment system continues to control the migration of the PSH plume and continues to recover PSH and dissolved-phase hydrocarbons. In 2019, 1,550 gallons of PSH were recovered. This is an increase from the 2018 reporting year in which approximately 1,330 gallons of PSH were recovered.

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TABLES

Table 3-1. Sampling and Analysis Plan
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	1st Semiannual Event Analytical Requirements	2nd Semiannual Event Analytical Requirements	Date of Most Recent Sample	Benzene (ppb) Most Recent Sample	1,1-Dichloroethene (1,1-DCE) (ppb) Most Recent Sample	Consecutive Events < NMWQCC Standard or EPA MCL	Comments
MW-10	---	BTEX	02/13/20	< 1	NA	0	Sampled as per NMED request
MW-11	---	BTEX	02/13/20	< 1	NA	0	Sampled as per NMED request
MW-13	---	BTEX	01/08/20	< 1	NA	23	
MW-14	---	BTEX	01/07/20	< 1	NA	12	
MW-16	BTEX	BTEX	05/31/18	320	NA	0	PSH in well, did not sample in 2019
MW-17	---	BTEX	02/13/20	< 1	NA	0	Sampled as per NMED request
MW-20	VOCs	VOCs	01/06/20	< 1	2.5	0	COCs: DCE
MW-21	BTEX	BTEX	11/26/19	< 1	NA	22	
MW-22	VOCs	VOCs	01/06/20	< 1	1.1	30	COCs: DCE
MW-24D	---	BTEX	01/07/20	< 1	NA	9	Clean deep well
MW-26	VOCs	VOCs	01/06/20	< 1	45	0	COCs: DCE
MW-27	BTEX	BTEX	11/26/19	< 2	NA	3	
MW-29	BTEX	BTEX	11/25/19	< 1	NA	17	
MW-32	---	BTEX	11/25/19	< 1	NA	23	
MW-34	BTEX	BTEX	11/20/19	< 1	NA	9	
MW-35	---	BTEX	11/21/19	< 1	NA	32	Clean downgradient well
MW-37	---	BTEX	11/20/19	< 1	NA	22	Clean downgradient well
MW-39	VOCs	VOCs	01/07/20	< 1	24	0	COCs: DCE
MW-40	VOCs	VOCs	01/08/20	< 1	< 1	10	Clean downgradient well
MW-41	VOCs	VOCs	01/08/20	< 1	1.1	9	COCs: DCE
MW-42	VOCs	VOCs	01/08/20	< 1	1.4	8	COCs: DCE
RW-1	VOCs	VOCs	01/08/20	26	<1	0	Sampled as per NMED request
SVE-1A	VOCs	VOCs	--	--	--	--	Dry
SVE-2A	VOCs	VOCs	--	--	--	--	Dry
SVE-3	VOCs	VOCs	--	--	--	--	Dry
SVE-22	VOCs	VOCs	--	--	--	--	Dry
SVE-23	VOCs	VOCs	--	--	--	--	PSH in well in January 2020
SVE-24	VOCs	VOCs	--	--	--	--	Dry
SVE-25	VOCs	VOCs	--	--	--	--	Dry
SVE-26	VOCs	VOCs	--	--	--	--	Dry
SVE-27	VOCs	VOCs	--	--	--	--	Dry
SVE-28	VOCs	VOCs	01/08/20	1.5	<1	0	Sampled as per NMED request
SVE-30	VOCs	VOCs	01/08/20	8.9	<5.0	0	Sampled as per NMED request
SVE-31	VOCs	VOCs	--	--	--	--	Dry

Notes:

Prepared by: JIM 2/12/20

Checked by: RAH 2/21//20

1) Non-detect results are shown with the "<" symbol followed by the reporting limit
2) NA - Not analyzed
3) BTEX (Benzene, Toluene, Ethylbenzene and Xylenes) and VOCs (Volatile Organic Compounds) to be analyzed by EPA method 8260B
4) ppb - parts per billion
5) NMWQCC - New Mexico Water Quality Control Commission
6) EPA MCL - United States Environmental Protection Agency's Maximum Contamination Level
7) This SAP was approved in NMED's Approval with Modifications Letter dated November 6, 2017.
8) Monitoring wells MW-5, MW-6, MW-8, MW-9, MW-18, MW-19, MW-23D, MW-25D, MW-31,MW-36, and MW-38 were plugged and abandoned in August 2013.
9) The following monitoring wells were removed from the SAP: MW-1B, MW-2, MW-3, MW-7, MW-10, MW-11, MW-12, MW-15, MW-17, MW-28, MW-30, MW-33. Furture sampling of the wells may be performed to obtain data to support plume analytics.
10) Sampling Analysis Plan revised and approved by NMED on May 31, 2019

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-1B	3/10/09	3609.96	60.46	62.20	1.74	3,549.08
	10/8/09		sheen	64.18	sheen	3,545.78
	1/26/10		60.32	60.60	0.28	3,549.57
	3/22/10		59.82	61.86	2.04	3,549.65
	4/17/11		60.18	62.05	1.87	3,549.33
	12/22/11		61.01	63.24	2.23	3,548.41
	4/17/12		60.65	62.45	1.80	3,548.88
	10/18/12		61.88	64.21	2.33	3,547.52
	1/22/13		61.38	63.55	2.17	3,548.06
	4/15/13		61.24	63.10	1.86	3,548.27
	11/3/13	3610.74 (h)	62.19	63.35	1.16	3,548.27
	4/30/14		61.50	62.73	1.23	3,548.94
	11/19/14		61.87	64.03	2.16	3,548.35
	4/21/15		61.76	63.25	1.49	3,548.62
	11/3/15		61.88	63.66	1.78	3,548.43
	4/29/16		61.81	63.28	1.47	3,548.58
	11/16/16		62.12	63.68	1.56	3,548.25
	5/22/17		61.80	62.90	1.10	3548.68
	11/13/17		62.65	64.41	1.76	3,547.67
	6/1/18		60.60	61.25	0.65	3,549.98
	11/6/18		63.08	63.09	0.01	3,547.66
	6/24/19		61.27	62.18	0.91	3,549.25
	1/5/20		61.60	61.95	0.35	3,549.06
MW-2	3/10/09	3611.76	(a)	59.10	(a)	3,552.66
	10/8/09		(a)	60.39	(a)	3,551.37
	3/22/10		(a)	59.66	(a)	3,552.10
	4/17/11		(a)	59.77	(a)	3,551.99
	12/22/11		(a)	59.79	(a)	3,551.97
	4/17/12		(a)	60.30	(a)	3,551.46
	10/18/12		(a)	61.30	(a)	3,550.46
	1/22/13		(a)	61.07	(a)	3,550.69
	4/15/13		(a)	61.30	(a)	3,550.46
	11/3/13	3612.62 (h)	(a)	60.77	(a)	3,551.85
	4/30/14		(a)	60.48	(a)	3,552.14
	11/19/14		(a)	60.60	(a)	3,552.02
	4/21/15		(a)	58.85	(a)	3,553.77
	11/3/15		(a)	59.45	(a)	3,553.17
	4/28/16		(a)	59.59	(a)	3,553.03
	11/16/16		(a)	59.97	(a)	3,552.65
	5/22/17		(a)	60.29	(a)	3,552.33
	11/13/17		(a)	60.83	(a)	3,551.79
	6/1/18		(a)	dry	(a)	NA
	11/6/18		(a)	60.42	(a)	3,552.20
	6/24/19		(a)	59.78	(a)	3,552.84
	1/5/20		(a)	59.88	(a)	3,552.74
MW-3	3/10/09	3614.87	(a)	66.23	(a)	3,548.64
	10/8/09		(a)	66.77	(a)	3,548.10
	3/22/10		(a)	66.37	(a)	3,548.50
	4/17/11		(a)	66.39	(a)	3,548.48
	12/22/11		(a)	66.86	(a)	3,548.01
	4/17/12		(a)	66.67	(a)	3,548.20
	10/18/12		(a)	67.28	(a)	3,547.59
	1/22/13		(a)	67.22	(a)	3,547.65
	4/15/13		(a)	67.11	(a)	3,547.76

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/13	3615.75 (h)	(a)	67.47	(a)	3,548.28
	4/30/14		(a)	67.31	(a)	3,548.44
	11/19/14		(a)	67.74	(a)	3,548.01
	4/21/15		(a)	67.52	(a)	3,548.23
	11/3/15		(a)	67.61	(a)	3,548.14
	4/29/16		(a)	67.42	(a)	3,548.33
	11/16/16		(a)	67.95	(a)	3,547.80
	5/22/17		(a)	67.55	(a)	3,548.20
	11/13/17		(a)	68.20	(a)	3,547.55
	6/1/18		(a)	67.85	(a)	3,547.90
	11/6/18		(a)	68.05	(a)	3,547.70
	6/24/19		(a)	67.45	(a)	3,548.30
	1/5/20		(a)	67.55	(a)	3,548.20
MW-7	3/10/09	3599.20	(a)	58.24	(a)	3,540.96
	10/8/09		(a)	62.12	(a)	3,537.08
	3/22/10		(a)	58.68	(a)	3,540.52
	4/17/11		(a)	59.42	(a)	3,539.78
	12/22/11		(a)	63.09	(a)	3,536.11
	4/17/12		(a)	62.30	(a)	3,536.90
	10/18/12		(a)	66.14	(a)	3,533.06
	1/22/13		(a)	64.40	(a)	3,534.80
	4/15/13		(a)	63.71	(a)	3,535.49
	11/3/13	3599.96 (h)	(a)	66.07	(a)	3,533.89
	4/30/14		(a)	64.30	(a)	3,535.66
	11/19/14		(a)	64.02	(a)	3,535.94
	4/20/15		(a)	61.04	(a)	3,538.92
	11/3/15		(a)	63.24	(a)	3,536.72
	4/27/16		(a)	61.15	(a)	3,538.81
	11/16/16		(a)	63.8	(a)	3,536.16
	5/22/17		(a)	62.30	(a)	3,537.66
	11/13/17		(a)	64.46	(a)	3,535.50
	6/1/18		(a)	63.37	(a)	3,536.59
	11/6/18		(a)	65.55	(a)	3,534.41
	6/24/19		(a)	62.93	(a)	3,537.03
	1/6/20		(a)	65.10	(a)	3,534.86
MW-10	3/10/09	3617.85	(a)	68.49	(a)	3,549.36
	10/8/09		(a)	69.18	(a)	3,548.67
	3/22/10		(a)	68.85	(a)	3,549.00
	4/17/11		(a)	68.85	(a)	3,549.00
	12/22/11		(a)	69.32	(a)	3,548.53
	4/17/12		(a)	69.19	(a)	3,548.66
	10/18/12		(a)	69.78	(a)	3,548.07
	1/22/13		(a)	69.79	(a)	3,548.06
	4/15/13		(a)	69.70	(a)	3,548.15
	11/3/13	3618.81 (h)	(a)	70.04	(a)	3,548.77
	4/30/14		(a)	69.93	(a)	3,548.88
	11/19/14		(a)	70.23	(a)	3,548.58
	4/21/15		(a)	70.06	(a)	3,548.75
	11/3/15		(a)	70.07	(a)	3,548.74
	4/29/16		(a)	69.90	(a)	3,548.91
	11/16/16		(a)	70.43	(a)	3,548.38
	5/22/17		(a)	70.03	(a)	3,548.78
	11/13/17		(a)	70.62	(a)	3,548.19
	6/1/18		(a)	70.35	(a)	3,548.46

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/6/18		(a)	70.45	(a)	3,548.36
	6/24/19		(a)	69.85	(a)	3,548.96
	1/5/20		(a)	69.91	(a)	3,548.90
	2/13/20		(a)	69.87	(a)	3,548.94
MW-11	3/10/09	3613.31	(a)	64.30	(a)	3,549.01
	10/8/09		(a)	65.39	(a)	3,547.92
	3/22/10		(a)	64.69	(a)	3,548.62
	4/17/11		(a)	64.55	(a)	3,548.76
	12/22/11		(a)	65.36	(a)	3,547.95
	4/17/12		(a)	64.97	(a)	3,548.34
	10/18/12		(a)	66.03	(a)	3,547.28
	1/22/13		(a)	65.69	(a)	3,547.62
	4/15/13		(a)	65.45	(a)	3,547.86
	11/3/13	3614.08 (h)	(a)	65.95	(a)	3,548.13
	4/30/14		(a)	65.71	(a)	3,548.37
	11/19/14		(a)	66.47	(a)	3,547.61
	4/21/15		(a)	65.70	(a)	3,548.38
	11/3/15		(a)	65.53	(a)	3,548.55
	4/28/16		(a)	65.50	(a)	3,548.58
	11/16/16		(a)	66.67	(a)	3,547.41
	5/22/17		(a)	65.55	(a)	3,548.53
	11/13/17		(a)	66.83	(a)	3,547.25
	6/1/18		(a)	66.07	(a)	3,548.01
	11/6/18		(a)	65.90	(a)	3,548.18
	6/24/19		(a)	65.18	(a)	3,548.90
	1/5/20		(a)	65.25	(a)	3,548.83
	2/13/20		(a)	65.10	(a)	3,548.98
MW-12	3/10/09	3606.38	56.16	56.57	0.41	3,550.12
	10/8/09		57.17	57.18	0.01	3,549.21
	1/26/10		(a)	56.95	(a)	3,549.43
	3/22/10		56.34	58.23	1.89	3,549.59
	4/17/11		56.00	57.47	1.47	3,550.03
	12/22/11		57.01	57.18	0.17	3,549.33
	4/17/12		56.75	59.72	2.97	3,548.92
	10/15/12		57.33	58.28	0.95	3,548.82
	1/22/13		54.93	57.30	2.37	3,550.88
	4/15/13		57.28	60.74	3.46	3,548.27
	11/3/13	3606.98 (h)	57.71	60.15	2.44	3,548.68
	4/30/14		57.57	62.68	5.11	3,548.18
	11/19/14		56.9	59.91	3.01	3,549.36
	4/21/15		56.51	56.74	0.23	3,550.41
	11/3/15		56.03	56.18	0.15	3,550.91
	4/27/16		56.21	56.27	0.06	3,550.76
	11/16/16		56.58	56.60	0.02	3,550.40
	5/22/17		(a)	56.68	(a)	3,550.30
	11/13/17		(a)	57.21	(a)	3,549.77
	6/1/18		(a)	56.85	(a)	3,550.13
	11/6/18		(a)	54.79	(a)	3,552.19
	6/24/19		(a)	55.38	(a)	3,551.60
	1/6/20		(a)	56.00	(a)	3,550.98
MW-13	3/10/09	3612.46	(a)	63.76	(a)	3,548.70
	10/8/09		(a)	64.35	(a)	3,548.11
	1/26/10		(a)	64.05	(a)	3,548.41
	3/22/10		(a)	63.78	(a)	3,548.68

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/17/11		(a)	63.65	(a)	3,548.81
	12/22/11		(a)	64.64	(a)	3,547.82
	4/17/12		(a)	64.31	(a)	3,548.15
	10/18/12		(a)	64.99	(a)	3,547.47
	1/22/13		(a)	64.70	(a)	3,547.76
	4/15/13		(a)	64.59	(a)	3,547.87
	11/3/13	3613.19 (h)	(a)	64.70	(a)	3,548.49
	4/30/14		(a)	64.91	(a)	3,548.28
	11/19/14		(a)	65.27	(a)	3,547.92
	4/21/15		(a)	64.93	(a)	3,548.26
	11/3/15		(a)	65.13	(a)	3,548.06
	4/29/16		(a)	65.03	(a)	3,548.16
	11/16/16		(a)	65.37	(a)	3,547.82
	5/22/17		(a)	65.10	(a)	3,548.09
	11/13/17		(a)	66.42	(a)	3,546.77
	6/1/18		(a)	65.37	(a)	3,547.82
	11/6/18		(a)	66.38	(a)	3,546.81
	6/24/19		(a)	65.18	(a)	3,548.01
	1/5/20		(a)	65.05	(a)	3,548.14
MW-14	3/10/09	3604.83	(a)	54.43	(a)	3,550.40
	10/8/09		(a)	54.57	(a)	3,550.26
	3/22/10		(a)	54.23	(a)	3,550.60
	4/17/11		(a)	54.72	(a)	3,550.11
	12/22/11		(a)	55.43	(a)	3,549.40
	4/17/12		(a)	h	(a)	NA
	10/15/12		(a)	55.52	(a)	3,549.31
	1/22/13		(a)	55.63	(a)	3,549.20
	4/15/13		(a)	55.61	(a)	3,549.22
	11/3/13	3605.55 (h)	(a)	55.89	(a)	3,549.66
	4/30/14		(a)	56.03	(a)	3,549.52
	11/19/14		(a)	56.08	(a)	3,549.47
	4/20/15		(a)	55.83	(a)	3,549.72
	11/3/15		(a)	55.89	(a)	3,549.66
	4/27/16		(a)	55.94	(a)	3,549.61
	11/16/16		(a)	56.14	(a)	3,549.41
	5/22/17		(a)	56.14	(a)	3,549.41
	11/13/17		(a)	56.67	(a)	3,548.88
	6/1/18		(a)	56.25	(a)	3,549.30
	11/6/18		(a)	56.49	(a)	3,549.06
	6/24/19		(a)	55.88	(a)	3,549.67
	1/6/20		(a)	55.95	(a)	3,549.60
MW-15	3/10/09	3610.43	(a)	59.30	(a)	3,551.13
	10/8/09		(a)	58.82	(a)	3,551.61
	3/22/10		(a)	58.43	(a)	3,552.00
	4/17/11		(a)	58.94	(a)	3,551.49
	12/22/11		(a)	59.26	(a)	3,551.17
	4/17/12		(a)	59.45	(a)	3,550.98
	10/15/12		(a)	59.65	(a)	3,550.78
	1/22/13		(a)	59.88	(a)	3,550.55
	4/15/13		(a)	59.99	(a)	3,550.44
	11/3/13	3611.24 (h)	(a)	60.10	(a)	3,551.14
	4/30/14		(a)	60.36	(a)	3,550.88
	11/19/14		(a)	60.38	(a)	3,550.86
	4/20/15		(a)	60.50	(a)	3,550.74
	11/3/15		(a)	60.73	(a)	3,550.51

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/27/16		(a)	60.81	(a)	3,550.43
	11/15/16		(a)	60.75	(a)	3,550.49
	5/22/17		(a)	60.67	(a)	3,550.57
	11/13/17		(a)	61.20	(a)	3,550.04
	5/31/18		(a)	61.11	(a)	3,550.13
	11/6/18		(a)	61.16	(a)	3,550.08
	6/24/19		(a)	61.14	(a)	3,550.10
	1/6/20		(a)	61.18	(a)	3,550.06
MW-16	3/10/09	3612.41	65.25	65.26	0.01	3,547.16
	10/8/09		65.91	65.92	0.01	3,546.50
	1/26/10		(a)	65.57	(a)	3,546.84
	3/22/10		(a)	65.19	sheen	3,547.22
	4/17/11		(a)	65.36	(a)	3,547.05
	12/22/11		(a)	65.99	sheen	3,546.42
	4/17/12		65.58	65.59	0.01	3,546.83
	10/15/12		(a)	66.55	(a)	3,545.86
	1/22/13		(a)	66.32	(a)	3,546.09
	4/15/13		(a)	66.17	(a)	3,546.24
	11/3/13	3613.16 (h)	(a)	66.48	(a)	3,546.68
	4/30/14		(a)	66.20	(a)	3,546.96
	11/19/14		66.8	66.91	0.11	3,546.33
	4/20/15		(a)	66.48	(a)	3,546.68
	11/3/15		67.29	67.46	0.17	3,545.83
	4/27/16		67.05	67.19	0.14	3,546.08
	11/16/16		68.11	68.15	0.04	3,545.04
	5/22/17		66.96	67.20	0.24	3,546.14
	7/14/17		68.72	69.11	0.39	3,544.35
	7/28/17		69.11	69.63	0.52	3,543.93
	8/7/17		69.07	69.61	0.54	3,543.96
	9/9/17		70.11	70.47	0.36	3,542.96
	11/13/17		68.44	68.55	0.11	3,544.69
	5/31/18		67	68.22	1.22	3,545.87
	11/6/18		67.7	69.10	1.40	3,545.12
	6/24/19		66.96	68.40	1.44	3,545.85
	1/6/20		68.85	68.90	0.05	3,544.30
MW-17	3/10/09	3608.43 (d)	(a)	61.20	(a)	3,547.23
	10/8/09		(a)	61.64	(a)	3,546.79
	3/22/10		(a)	60.95	(a)	3,547.48
	4/17/11		(a)	61.11	(a)	3,547.32
	12/22/11		(a)	61.42	(a)	3,547.01
	4/17/12		(a)	61.43	(a)	3,547.00
	10/15/12		(a)	61.95	(a)	3,546.48
	1/22/13		(a)	62.17	(a)	3,546.26
	4/15/13		(a)	61.97	(a)	3,546.46
	11/3/13	3609.20 (h)	(a)	62.23	(a)	3,546.97
	4/30/14		(a)	62.12	(a)	3,547.08
	11/19/14		(a)	62.40	(a)	3,546.80
	4/20/15		(a)	62.21	(a)	3,546.99
	11/3/15		(a)	62.91	(a)	3,546.29
	4/27/16		(a)	62.51	(a)	3,546.69
	11/15/16		(a)	63.37	(a)	3,545.83
	5/22/17		(a)	62.89	(a)	3,546.31
	11/13/17		(a)	63.92	(a)	3,545.28

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	5/31/18		(a)	63.11	(a)	3,546.09
	11/6/18		(a)	63.48	(a)	3,545.72
	6/23/19		(a)	63.05	(a)	3,546.15
	1/6/20		(a)	63.00	(a)	3,546.20
	2/13/20		(a)	63.23	(a)	3,545.97
MW-20	3/10/09	3600.65	(a)	52.08	(a)	3,548.57
	10/8/09		(a)	58.30	(a)	3,542.35
	10/9/09		(a)	55.57	(a)	3,545.08
	3/22/10		(a)	52.62	(a)	3,548.03
	4/17/11		(a)	52.43	(a)	3,548.22
	12/22/11		(a)	58.35	(a)	3,542.30
	4/17/12		(a)	53.50	(a)	3,547.15
	10/15/12		(a)	54.92	(a)	3,545.73
	1/22/13		(a)	54.13	(a)	3,546.52
	4/15/13		(a)	53.90	(a)	3,546.75
	11/3/13	3601.34 (h)	(a)	54.35	(a)	3,546.99
	4/30/14		(a)	54.28	(a)	3,547.06
	11/19/14		(a)	55.82	(a)	3,545.52
	4/21/15		(a)	53.24	(a)	3,548.10
	11/3/15		(a)	52.47	(a)	3,548.87
	4/28/16		(a)	53.13	(a)	3,548.21
	11/16/16		(a)	54.28	(a)	3,547.06
	5/22/17		(a)	53.43	(a)	3,547.91
	11/13/17		(a)	56.10	(a)	3,545.24
	6/1/18		(a)	54.03	(a)	3,547.31
	11/6/18		(a)	50.93	(a)	3,550.41
	6/24/19		(a)	52.00	(a)	3,549.34
	1/6/20		(a)	52.45	(a)	3,548.89
MW-21	3/10/09	3611.99 (d)	(a)	65.43	(a)	3,546.56
	10/8/09		(a)	66.30	(a)	3,545.69
	1/26/10		(a)	65.79	(a)	3,546.20
	3/22/10		(a)	65.31	(a)	3,546.68
	4/17/11		(a)	65.02	(a)	3,546.97
	12/22/11		(a)	65.28	(a)	3,546.71
	4/17/12		(a)	65.44	(a)	3,546.55
	10/15/12		(a)	65.57	(a)	3,546.42
	1/22/13		(a)	65.51	(a)	3,546.48
	4/15/13		(a)	65.54	(a)	3,546.45
	11/3/13	3612.71 (h)	(a)	66.08	(a)	3,546.63
	4/30/14		(a)	65.82	(a)	3,546.89
	11/19/14		(a)	66.17	(a)	3,546.54
	4/20/15		(a)	66.08	(a)	3,546.63
	11/3/15		(a)	66.15	(a)	3,546.56
	4/27/16		(a)	66.34	(a)	3,546.37
	11/15/16		(a)	66.43	(a)	3,546.28
	5/22/17		(a)	66.32	(a)	3,546.39
	7/14/17		(a)	67.38	(a)	3,545.33
	7/28/17		(a)	67.28	(a)	3,545.43
	8/7/17		(a)	67.17	(a)	3,545.54
	9/9/17		(a)	67.53	(a)	3,545.18
	11/13/17		(a)	66.65	(a)	3,546.06
	5/31/18		(a)	66.77	(a)	3,545.94
	11/6/18		(a)	66.88	(a)	3,545.83

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	6/23/19		(a)	66.6	(a)	3,546.11
	11/19/19		(a)	66.98	(a)	3,545.73
MW-22	3/10/09	3606.04	(a)	57.14	(a)	3,548.90
	10/8/09		(a)	58.25	(a)	3,547.79
	3/22/10		(a)	57.33	(a)	3,548.71
	4/17/11		(a)	57.38	(a)	3,548.66
	12/22/11		(a)	58.65	(a)	3,547.39
	4/17/12		(a)	57.88	(a)	3,548.16
	10/15/12		(a)	58.93	(a)	3,547.11
	1/22/13		(a)	58.60	(a)	3,547.44
	4/15/13		(a)	58.36	(a)	3,547.68
	11/3/13	3606.62 (h)	(a)	58.94	(a)	3,547.68
	4/30/14		(a)	58.49	(a)	3,548.13
	11/19/14		(a)	59.38	(a)	3,547.24
	4/21/15		(a)	58.56	(a)	3,548.06
	11/3/15		(a)	58.42	(a)	3,548.20
	4/28/16		(a)	58.38	(a)	3,548.24
	11/16/16		(a)	59.33	(a)	3,547.29
	5/22/17		(a)	58.47	(a)	3,548.15
	11/13/17		(a)	59.63	(a)	3,546.99
	6/1/18		(a)	58.96	(a)	3,547.66
	11/6/18		(a)	58.59	(a)	3,548.03
	6/24/19		(a)	57.75	(a)	3,548.87
	1/6/20		(a)	58.01	(a)	3,548.61
MW-24 D	3/10/09	3595.95 (c)	(a)	56.62	(a)	3,539.33
	10/8/09		(a)	61.13	(a)	3,534.82
	3/22/10		(a)	56.22	(a)	3,539.73
	4/17/11		(a)	58.73	(a)	3,537.22
	12/22/11		(a)	60.28	(a)	3,535.67
	4/17/12		(a)	61.39	(a)	3,534.56
	10/15/12		(a)	65.33	(a)	3,530.62
	1/22/13		(a)	61.26	(a)	3,534.69
	4/15/13		(a)	62.76	(a)	3,533.19
	11/3/13	3596.80 (h)	(a)	64.42	(a)	3,532.38
	4/30/14		(a)	62.91	(a)	3,533.89
	11/19/14		(a)	61.76	(a)	3,535.04
	4/21/15		(a)	59.61	(a)	3,537.19
	11/3/15		(a)	61.03	(a)	3,535.77
	4/28/16		(a)	59.44	(a)	3,537.36
	11/16/16		(a)	61.59	(a)	3,535.21
	5/22/17		(a)	61.03	(a)	3,535.77
	11/13/17		(a)	62.67	(a)	3,534.13
	6/1/18		(a)	62.9	(a)	3,533.90
	11/6/18		(a)	62.78	(a)	3,534.02
	6/24/19		(a)	61.91	(a)	3,534.89
	1/6/20		(a)	61.90	(a)	3,534.90
MW-26	3/10/09	3597.75 (c)	(a)	50.11	(a)	3,547.64
	10/8/09		(a)	52.35	(a)	3,545.40
	3/22/10		(a)	50.52	(a)	3,547.23
	4/17/11		(a)	50.45	(a)	3,547.30
	12/22/11		(a)	51.70	(a)	3,546.05
	4/17/12		(a)	51.24	(a)	3,546.51
	10/15/12		(a)	52.55	(a)	3,545.20
	1/22/13		(a)	51.95	(a)	3,545.80

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/15/13		(a)	51.70	(a)	3,546.05
	11/3/13	3598.43 (h)	(a)	52.22	(a)	3,546.21
	4/30/14		(a)	51.86	(a)	3,546.57
	11/19/14		(a)	52.21	(a)	3,546.22
	4/21/15		(a)	50.91	(a)	3,547.52
	11/3/15		(a)	50.61	(a)	3,547.82
	4/28/16		(a)	50.73	(a)	3,547.70
	11/16/16		(a)	51.62	(a)	3,546.81
	5/22/17		(a)	51.03	(a)	3,547.40
	11/13/17		(a)	52.42	(a)	3,546.01
	6/1/18		(a)	51.52	(a)	3,546.91
	11/6/18		(a)	49.89	(a)	3,548.54
	6/24/19		(a)	49.77	(a)	3,548.66
	1/6/20		(a)	50.10	(a)	3,548.33
MW-27	3/10/09	3615.11 (d)	67.85	68.18	0.33	3,547.18
	10/8/09		68.38	68.89	0.51	3,546.61
	1/26/10		68.48	68.88	0.40	3,546.53
	3/22/10		68.31	68.73	0.42	3,546.70
	4/17/11		68.10	68.26	0.16	3,546.97
	12/22/11		68.21	68.35	0.14	3,546.87
	4/17/12		67.38	67.52	0.14	3,547.70
	10/15/12		68.31	68.54	0.23	3,546.74
	1/22/13		68.45	68.67	0.22	3,546.61
	4/15/13		65.92	67.07	1.15	3,548.91
	5/16/13		68.47	69.77	1.30	3,546.33
	11/3/13	3615.76 (h)	(a)	68.19	(a)	3,547.57
	11/13/13		68.29	68.30	0.01	3,547.47
	4/30/14		68.61	68.63	0.02	3,547.15
	11/19/14		68.96	68.97	0.01	3,546.80
	4/20/15		68.96	68.97	0.01	3,546.80
	11/3/15		(a)	69.07	(a)	3,546.69
	4/27/16		(a)	69.18	(a)	3,546.58
	11/15/16		(a)	69.23	(a)	3,546.53
	5/22/17		(a)	69.19	(a)	3,546.57
	11/13/17		(a)	69.55	(a)	3,546.21
	5/30/18		(a)	69.55	(a)	3,546.21
	11/6/18		(a)	69.57	(a)	3,546.19
	6/23/19		(a)	69.43	(a)	3,546.33
	11/19/19		(a)	69.47	(a)	3,546.29
MW-28	3/10/09	3615.90 (d)	(a)	68.70	(a)	3,547.20
	10/8/09		(a)	68.94	(a)	3,546.96
	3/22/10		(a)	68.71	(a)	3,547.19
	4/17/11		(a)	68.95	(a)	3,546.95
	12/22/11		(a)	69.01	(a)	3,546.89
	4/17/12		(a)	69.20	(a)	3,546.70
	10/15/12		(a)	69.30	(a)	3,546.60
	1/22/13		(a)	69.48	(a)	3,546.42
	4/15/13		(a)	69.57	(a)	3,546.33
	11/3/13	3616.62 (h)	(a)	69.61	(a)	3,547.01
	4/30/14		(a)	69.78	(a)	3,546.84
	11/19/14		(a)	69.82	(a)	3,546.80
	4/20/15		(a)	70.21	(a)	3,546.41
	11/3/15		(a)	70.40	(a)	3,546.22

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/27/16		(a)	70.42	(a)	3,546.20
	11/15/16		(a)	70.47	(a)	3,546.15
	5/22/17		(a)	70.44	(a)	3,546.18
	11/13/17		(a)	70.45	(a)	3,546.17
	5/30/18		(a)	71.72	(a)	3,544.90
	11/6/18		(a)	70.81	(a)	3,545.81
	6/23/19		(a)	70.68	(a)	3,545.94
	11/19/19		(a)	70.53	(a)	3,546.09
MW-29	3/10/09	3613.54 (d)	(a)	67.86	(a)	3,545.68
	10/8/09		(a)	68.82	(a)	3,544.72
	3/22/10		(a)	68.04	(a)	3,545.50
	4/17/11		(a)	67.78	(a)	3,545.76
	12/22/11		(a)	68.15	(a)	3,545.39
	4/17/12		(a)	68.41	(a)	3,545.13
	10/15/12		(a)	68.10	(a)	3,545.44
	1/22/13		(a)	68.33	(a)	3,545.21
	4/15/13		(a)	68.34	(a)	3,545.20
	11/3/13	3614.22 (h)	(a)	69.47	(a)	3,544.75
	4/30/14		(a)	69.53	(a)	3,544.69
	11/19/14		(a)	69.67	(a)	3,544.55
	4/20/15		(a)	69.65	(a)	3,544.57
	11/3/15		(a)	69.90	(a)	3,544.32
	4/27/16		(a)	69.78	(a)	3,544.44
	11/15/16		(a)	70.13	(a)	3,544.09
	5/22/17		(a)	70.03	(a)	3,544.19
	11/13/17		(a)	70.45	(a)	3,543.77
	5/30/18		(a)	72.00	(a)	3,542.22
	11/6/18		(a)	67.53	(a)	3,546.69
	6/23/19		(a)	69.99	(a)	3,544.23
	11/19/19		(a)	70.00	(a)	3,544.22
MW-30	3/10/09	3612.63 (d)	(a)	65.83	(a)	3,546.80
	10/8/09		(a)	65.97	(a)	3,546.66
	3/22/10		(a)	65.81	(a)	3,546.82
	4/17/11		(a)	66.13	(a)	3,546.50
	12/22/11		(a)	66.20	(a)	3,546.43
	4/17/12		(a)	66.30	(a)	3,546.33
	10/15/12		(a)	66.48	(a)	3,546.15
	1/22/13		(a)	66.61	(a)	3,546.02
	4/15/13		(a)	66.57	(a)	3,546.06
	11/3/13	3613.33 (h)	(a)	66.84	(a)	3,546.49
	4/30/14		(a)	66.86	(a)	3,546.47
	11/19/14		(a)	66.97	(a)	3,546.36
	4/20/15		(a)	70.23	(a)	3,543.10
	11/3/15		(a)	67.22	(a)	3,546.11
	4/27/16		(a)	67.21	(a)	3,546.12
	11/15/16		(a)	67.32	(a)	3,546.01
	5/22/17		(a)	67.34	(a)	3,545.99
	11/13/17		(a)	67.59	(a)	3,545.74
	5/30/18		(a)	67.41	(a)	3,545.92
	11/6/18		(a)	67.50	(a)	3,545.83
	6/23/19		(a)	67.62	(a)	3,545.71
	11/19/19		(a)	67.59	(a)	3,545.74
MW-32	3/10/09	3608.73 (e)	(a)	65.01	(a)	3,543.72
	10/8/09		(a)	66.29	(a)	3,542.44

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	3/22/10		(a)	65.44	(a)	3,543.29
	4/17/11		(a)	65.15	(a)	3,543.58
	12/22/11		(a)	65.42	(a)	3,543.31
	4/17/12		(a)	66.03	(a)	3,542.70
	10/15/12		(a)	65.59	(a)	3,543.14
	1/22/13		(a)	65.94	(a)	3,542.79
	4/15/13		(a)	66.33	(a)	3,542.40
	11/3/13	3609.49 (h)	(a)	66.95	(a)	3,542.54
	4/30/14		(a)	67.41	(a)	3,542.08
	11/19/14		(a)	67.34	(a)	3,542.15
	4/20/15		(a)	67.08	(a)	3,542.41
	11/3/15		(a)	67.51	(a)	3,541.98
	4/27/16		(a)	67.16	(a)	3,542.33
	11/15/16		(a)	67.46	(a)	3,542.03
	5/22/17		(a)	67.50	(a)	3,541.99
	11/13/17		(a)	67.77	(a)	3,541.72
	5/30/18		(a)	67.62	(a)	3,541.87
	11/6/18		(a)	67.87	(a)	3,541.62
	6/23/19		(a)	67.84	(a)	3,541.65
	11/19/19		(a)	67.76	(a)	3,541.73
MW-33	3/10/09	3610.55 (e)	(a)	63.81	(a)	3,546.74
	10/8/09		(a)	63.95	(a)	3,546.60
	3/22/10		(a)	63.94	(a)	3,546.61
	4/17/11		(a)	64.28	(a)	3,546.27
	12/22/11		(a)	64.42	(a)	3,546.13
	4/17/12		(a)	64.57	(a)	3,545.98
	10/15/12		(a)	64.63	(a)	3,545.92
	1/22/13		(a)	64.76	(a)	3,545.79
	4/15/13		(a)	64.82	(a)	3,545.73
	11/3/13	3611.37 (h)	(a)	64.86	(a)	3,546.51
	4/30/14		(a)	65.05	(a)	3,546.32
	11/19/14		(a)	65.08	(a)	3,546.29
	4/20/15		(a)	65.20	(a)	3,546.17
	11/3/15		(a)	65.38	(a)	3,545.99
	4/27/16		(a)	65.45	(a)	3,545.92
	11/15/16		(a)	65.55	(a)	3,545.82
	5/22/17		(a)	65.69	(a)	3,545.68
	11/13/17		(a)	65.88	(a)	3,545.49
	5/30/18		(a)	65.75	(a)	3,545.62
	11/6/18		(a)	65.86	(a)	3,545.51
	6/23/19		(a)	65.95	(a)	3,545.42
	11/19/19		(a)	65.95	(a)	3,545.42
MW-34	3/10/09	3605.05 (f)	(a)	61.57	(a)	3,543.48
	10/8/09		(a)	62.61	(a)	3,542.44
	3/22/10		(a)	61.93	(a)	3,543.12
	4/17/11		(a)	61.98	(a)	3,543.07
	12/22/11		(a)	62.49	(a)	3,542.56
	4/17/12		(a)	62.77	(a)	3,542.28
	10/15/12		(a)	62.80	(a)	3,542.25
	1/22/13		(a)	63.14	(a)	3,541.91
	4/15/13		(a)	63.25	(a)	3,541.80
	11/3/13	3605.76 (h)	(a)	63.81	(a)	3,541.95
	4/30/14		(a)	63.99	(a)	3,541.77

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/19/14		(a)	64.08	(a)	3,541.68
	4/20/15		(a)	63.82	(a)	3,541.94
	11/3/15		(a)	64.20	(a)	3,541.56
	4/27/16		(a)	63.73	(a)	3,542.03
	11/15/16		(a)	64.20	(a)	3,541.56
	5/22/17		(a)	64.09	(a)	3,541.67
	11/13/17		(a)	64.51	(a)	3,541.25
	5/30/18		(a)	64.35	(a)	3,541.41
	11/6/18		(a)	64.63	(a)	3,541.13
	6/23/19		(a)	64.51	(a)	3,541.25
	11/19/19		(a)	64.69	(a)	3,541.07
MW-35	3/10/09	3601.87 (f)	(a)	58.40	(a)	3,543.47
	10/8/09		(a)	59.42	(a)	3,542.45
	3/22/10		(a)	58.85	(a)	3,543.02
	4/17/11		(a)	58.89	(a)	3,542.98
	12/22/11		(a)	59.60	(a)	3,542.27
	4/17/12		(a)	59.76	(a)	3,542.11
	10/15/12		(a)	59.91	(a)	3,541.96
	1/22/13		(a)	60.14	(a)	3,541.73
	4/15/13		(a)	60.28	(a)	3,541.59
	11/3/13	3602.61 (h)	(a)	60.81	(a)	3,541.80
	4/30/14		(a)	61.17	(a)	3,541.44
	11/19/14		(a)	61.01	(a)	3,541.60
	4/20/15		(a)	60.80	(a)	3,541.81
	11/3/15		(a)	61.17	(a)	3,541.44
	4/27/16		(a)	60.71	(a)	3,541.90
	11/15/16		(a)	61.17	(a)	3,541.44
	5/22/17		(a)	61.05	(a)	3,541.56
	11/13/17		(a)	61.51	(a)	3,541.10
	5/30/18		(a)	61.72	(a)	3,540.89
	11/6/18		(a)	61.99	(a)	3,540.62
	6/23/19		(a)	61.63	(a)	3,540.98
	11/19/19		(a)	62.21	(a)	3,540.40
MW-37	3/10/09	3599.86 (g)	(a)	56.53	(a)	3,543.33
	10/8/09		(a)	57.46	(a)	3,542.40
	3/22/10		(a)	56.98	(a)	3,542.88
	4/17/11		(a)	57.06	(a)	3,542.80
	12/22/11		(a)	57.58	(a)	3,542.28
	4/17/12		(a)	57.88	(a)	3,541.98
	10/15/12		(a)	58.18	(a)	3,541.68
	1/22/13		(a)	58.43	(a)	3,541.43
	4/15/13		(a)	58.47	(a)	3,541.39
	11/3/13	3600.58 (h)	(a)	58.99	(a)	3,541.59
	11/13/13		(a)	58.96	(a)	3,541.62
	4/30/14		(a)	59.2	(a)	3,541.38
	11/19/14		(a)	59.20	(a)	3,541.38
	4/20/15		(a)	58.95	(a)	3,541.63
	11/3/15		(a)	59.31	(a)	3,541.27
	4/27/16		(a)	58.78	(a)	3,541.80
	11/15/16		(a)	59.31	(a)	3,541.27
	5/22/17		(a)	59.13	(a)	3,541.45
	11/13/17		(a)	59.61	(a)	3,540.97
	5/30/18		(a)	59.43	(a)	3,541.15
	11/6/18		(a)	59.76	(a)	3,540.82

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	6/23/19		(a)	59.54	(a)	3,541.04
	11/19/19		(a)	59.85	(a)	3,540.73
MW-39	8/16/13	3597.38 (h)	(a)	51.64	(a)	3,545.74
	11/3/13		(a)	51.08	(a)	3,546.30
	4/30/14		(a)	50.74	(a)	3,546.64
	11/19/14		(a)	50.69	(a)	3,546.69
	4/21/15		(a)	49.97	(a)	3,547.41
	11/3/15		(a)	49.81	(a)	3,547.57
	4/28/16		(a)	49.96	(a)	3,547.42
	11/16/16		(a)	50.43	(a)	3,546.95
	5/22/17		(a)	49.99	(a)	3,547.39
	11/13/17		(a)	50.82	(a)	3,546.56
	6/1/18		(a)	50.40	(a)	3,546.98
	11/6/18		(a)	49.42	(a)	3,547.96
	6/24/19		(a)	48.97	(a)	3,548.41
	1/6/20		(a)	49.4	(a)	3,547.98
MW-40	8/16/13	3596.48 (h)	(a)	54.25	(a)	3,542.23
	11/3/13		(a)	54.21	(a)	3,542.27
	4/30/14		(a)	53.78	(a)	3,542.70
	11/19/14		(a)	54.23	(a)	3,542.25
	4/21/15		(a)	52.91	(a)	3,543.57
	11/3/15		(a)	53.21	(a)	3,543.27
	4/28/16		(a)	52.56	(a)	3,543.92
	11/16/16		(a)	53.55	(a)	3,542.93
	5/22/17		(a)	52.98	(a)	3,543.50
	11/13/17		(a)	54.11	(a)	3,542.37
	6/1/18		(a)	53.6	(a)	3,542.88
	11/6/18		(a)	54.24	(a)	3,542.24
	6/24/19		(a)	53.20	(a)	3,543.28
	1/6/20		(a)	54.30	(a)	3,542.18
MW-41	8/16/13	3601.73 (h)	(a)	56.57	(a)	3,545.16
	11/3/13		(a)	56.63	(a)	3,545.10
	4/30/14		(a)	56.76	(a)	3,544.97
	11/19/14		(a)	56.96	(a)	3,544.77
	4/21/15		(a)	56.58	(a)	3,545.15
	11/3/15		(a)	56.61	(a)	3,545.12
	4/28/16		(a)	56.36	(a)	3,545.37
	11/16/16		(a)	56.72	(a)	3,545.01
	5/22/17		(a)	56.58	(a)	3,545.15
	11/13/17		(a)	57.12	(a)	3,544.61
	6/1/18		(a)	56.90	(a)	3,544.83
	11/6/18		(a)	57.15	(a)	3,544.58
	6/24/19		(a)	56.85	(a)	3,544.88
	1/6/20		(a)	57.20	(a)	3,544.53
MW-42	8/16/13	3595.21 (h)	(a)	56.42	(a)	3,538.79
	11/3/13		(a)	56.28	(a)	3,538.93
	4/30/14		(a)	55.16	(a)	3,540.05
	11/19/14		(a)	55.25	(a)	3,539.96
	4/21/15		(a)	53.18	(a)	3,542.03
	11/3/15		(a)	54.27	(a)	3,540.94
	4/28/16		(a)	52.95	(a)	3,542.26
	11/16/16		(a)	54.71	(a)	3,540.50
	5/22/17		(a)	53.71	(a)	3,541.50
	11/13/17		(a)	55.46	(a)	3,539.75

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	6/1/18		(a)	54.55	(a)	3,540.66
	11/6/18		(a)	55.83	(a)	3,539.38
	6/24/19		(a)	54.29	(a)	3,540.92
	1/6/20		(a)	55.58	(a)	3,539.63
MPE-7	3/10/09	NA	(a)	67.79	(a)	NA
	10/8/09		(a)	69.75	(a)	NA
	3/22/10		(a)	67.62	(a)	NA
	4/17/11		(a)	67.15	(a)	NA
	12/22/11		(a)	67.07	(a)	NA
	4/17/12		(a)	67.50	(a)	NA
	10/15/12		(a)	67.44	(a)	NA
	4/15/13		(a)	67.63	(a)	NA
	11/3/13	3614.16 (h)	(a)	67.93	(a)	3,546.23
	5/1/14		(a)	68.07	(a)	3,546.09
	11/20/14		(a)	68.21	(a)	3,545.95
	11/3/15		(a)	68.29	(a)	3,545.87
	4/27/16		(a)	68.36	(a)	3,545.80
	11/15/16		(a)	68.46	(a)	3,545.70
	2/2/17		(a)	68.15	(a)	3,546.01
	2/15/17		(a)	67.50	(a)	3,546.66
	2/25/17		(a)	65.67	(a)	3,548.49
	3/20/17		(a)	66.15	(a)	3,548.01
	5/22/17		(a)	68.53	(a)	3,545.63
	11/13/17		(a)	68.87	(a)	3,545.29
	5/30/18		(a)	68.96	(a)	3,545.20
	11/6/18		(a)	69.06	(a)	3,545.10
	6/23/19		(a)	68.53	(a)	3,545.63
	11/18/19		(a)	68.40	(a)	3,545.76
MPE-8	3/10/09	NA	(a)	65.06	(a)	NA
	10/8/09		(a)	65.79	(a)	NA
	3/22/10		(a)	65.53	(a)	NA
	4/17/11		(a)	65.30	(a)	NA
	12/22/11		(a)	65.58	(a)	NA
	4/17/12		(a)	65.71	(a)	NA
	10/15/12		(a)	65.62	(a)	NA
	4/15/13		(a)	65.41	(a)	NA
	11/3/13	3612.35 (h)	(a)	66.55	(a)	3,545.80
	5/1/14		(a)	66.47	(a)	3,545.88
	11/20/14		(a)	66.76	(a)	3,545.59
	11/3/15		(a)	66.89	(a)	3,545.46
	4/27/16		(a)	66.65	(a)	3,545.70
	11/15/16		(a)	67.28	(a)	3,545.07
	2/2/17		(a)	66.61	(a)	3,545.74
	2/15/17		(a)	64.57	(a)	3,547.78
	2/25/17		(a)	63.55	(a)	3,548.80
	3/20/17		(a)	64.15	(a)	3,548.20
	5/22/17		(a)	66.87	(a)	3,545.48
	11/13/17		(a)	67.78	(a)	3,544.57
	5/30/18		(a)	67.35	(a)	3,545.00
	11/6/18		(a)	67.70	(a)	3,544.65
	7/24/19		(a)	66.30	(a)	3,546.05

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/19/19		(a)	67.10	(a)	3,545.25
MPE-9	3/10/09	NA	(a)	67.24	(a)	NA
	10/8/09		(a)	67.79	(a)	NA
	1/26/10		67.92	67.93	0.01	NA
	3/22/10		(a)	67.82	(a)	NA
	4/17/11		(a)	67.49	(a)	NA
	12/22/11		(a)	67.61	(a)	NA
	4/17/12		(a)	67.87	(a)	NA
	10/15/12		(a)	67.70	(a)	NA
	4/15/13		(a)	67.92	(a)	NA
	11/3/13	3615.40 (h)	(a)	67.32	(a)	3,548.08
	5/1/14		(a)	68.11	(a)	3,547.29
	11/20/14		(a)	68.34	(a)	3,547.06
	11/3/15		(a)	68.48	(a)	3,546.92
	4/27/16		(a)	68.61	(a)	3,546.79
	11/15/16		(a)	68.61	(a)	3,546.79
	2/2/17		(a)	68.77	(a)	3,546.63
	2/15/17		(a)	66.90	(a)	3,548.50
	2/25/17		(a)	66.68	(a)	3,548.72
	3/20/17		(a)	66.95	(a)	3,548.45
	5/22/17		(a)	68.60	(a)	3,546.80
	11/13/17		(a)	68.95	(a)	3,546.45
	5/30/18		(a)	68.91	(a)	3,546.49
	11/6/18		(a)	69.02	(a)	3,546.38
	6/23/19		(a)	68.75	(a)	3,546.65
	11/19/19		(a)	68.84	(a)	3,546.56
MPE-10	3/10/09	NA	65.58	66.45	0.87	NA
	3/22/10		(a)	66.20	(a)	NA
	4/17/11		65.41	66.85	1.44	NA
	12/22/11		65.74	66.48	0.74	NA
	4/17/12		66.05	66.22	0.17	NA
	10/15/12		66.03	66.88	0.85	NA
	4/15/13		65.96	66.95	0.99	NA
	11/3/13	3613.85 (h)	65.71	67.08	1.37	3,547.81
	5/1/14		66.35	66.36	0.01	3,547.50
	11/20/14		66.64	67.39	0.75	3,547.03
	4/20/15		66.48	67.09	0.61	3,547.22
	11/3/15		66.64	67.21	0.57	3,547.07
	4/27/16		66.73	67.27	0.54	3,546.99
	11/15/16		(a)	66.76	(a)	3,547.09
	2/2/17		66.98	67.95	0.97	3,546.64
	2/15/17		64.48	66.20	1.72	3,548.96
	2/25/17		64.4	66.05	1.65	3,549.05
	3/20/17		64.5	66.65	2.15	3,548.83
	5/22/17		66.73	67.63	0.9	3,546.90
	11/13/17		67.04	68.05	1.01	3,546.57
	5/30/18		67.05	68.11	1.06	3,546.55
	11/6/18		67.1	68.45	1.35	3,546.43
	6/23/19		66.50	68.90	2.4	3,546.77
	11/19/19		66.91	66.92	0.01	3,546.94
MPE-11	3/10/09	NA	(a)	63.02	(a)	NA
	10/8/09		(a)	63.81	(a)	NA
	4/17/11		(a)	62.92	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	12/22/11		(a)	63.21	(a)	NA
	4/17/12		(a)	63.44	(a)	NA
	10/15/12		(a)	63.73	(a)	NA
	4/15/13		(a)	63.63	(a)	NA
	11/3/13	3610.37 (h)	(a)	64.11	(a)	3,546.26
	5/1/14		(a)	64.06	(a)	3,546.31
	11/20/14		(a)	64.35	(a)	3,546.02
	4/20/15		(a)	64.11	(a)	3,546.26
	11/3/15		(a)	64.65	(a)	3,545.72
	4/27/16		(a)	64.51	(a)	3,545.86
	11/15/16		(a)	65.17	(a)	3,545.20
	2/2/17		(a)	64.29	(a)	3,546.08
	2/15/17		(a)	61.40	(a)	3,548.97
	2/25/17		(a)	60.84	(a)	3,549.53
	3/20/17		(a)	61.45	(a)	3,548.92
	5/22/17		(a)	64.54	(a)	3,545.83
	11/13/17		(a)	65.51	(a)	3,544.86
	5/30/18		(a)	64.92	(a)	3,545.45
	11/6/18		(a)	65.34	(a)	3,545.03
	6/23/19		(a)	64.48	(a)	3,545.89
	11/19/19		(a)	64.89	(a)	3,545.48
MPE-12	3/10/09	NA	64.30	64.60	0.30	NA
	10/8/09		65.24	65.45	0.21	NA
	1/26/10		64.75	65.12	0.37	NA
	3/22/10		64.55	64.60	0.05	NA
	4/17/11		64.32	64.47	0.15	NA
	12/22/11		(a)	64.61	(a)	NA
	4/17/12		(a)	64.78	(a)	NA
	10/15/12		(a)	65.11	(a)	NA
	4/15/13		64.81	64.83	0.02	NA
	11/3/13	3612.51 (h)	(a)	64.81	(a)	3,547.70
	5/1/14		65.14	65.15	0.01	3,547.36
	11/20/14		67.07	67.27	0.20	3,545.24
	4/20/15		(a)	65.32	(a)	3,547.19
	11/3/15		(a)	65.41	(a)	3,547.10
	4/27/16		65.50	65.80	0.3	3,548.28
	11/15/16		65.69	66.38	0.69	3,547.99
	5/22/17		(a)	65.60	(a)	3,546.91
	7/14/17		63.72	63.90	0.18	3,548.75
	7/28/17		63.58	64.40	0.82	3,548.73
	8/7/17		(a)	65.59	(a)	3,546.92
	9/9/17		62.78	63.83	1.05	3,549.48
	11/13/17		65.83	66.85	1.02	3,546.44
	5/31/18		65.90	66.71	0.81	3,546.42
	11/6/18		66.00	67.15	1.15	3,546.23
	6/23/19		65.75	66.17	0.42	3,546.66
	1/6/20		65.71	66.38	0.67	3,546.64
MPE-13	3/10/09	NA	62.93	63.90	0.97	NA
	10/8/09		63.65	64.00	0.35	NA
	1/26/10		63.44	63.75	0.31	NA
	3/22/10		62.93	63.15	0.22	NA
	4/17/11		63.08	63.27	0.19	NA
	12/22/11		(a)	63.32	(a)	NA
	4/17/12		63.51	63.93	0.42	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	10/15/12		63.91	64.27	0.36	NA
	4/15/13		63.93	64.19	0.26	NA
	11/3/13	3610.91 (h)	64.07	64.21	0.14	3,546.81
	5/1/14		64.15	64.45	0.30	3,546.69
	11/20/14		64.55	64.66	0.11	3,546.33
	4/20/15		64.81	65.20	0.39	3,546.01
	11/3/15		(a)	64.95	(a)	3,545.96
	4/27/16		(a)	64.73	(a)	3,546.18
	8/28/16		(a)	NA	(a)	NA
	11/15/16		(a)	65.61	(a)	3,545.30
	5/22/17		(a)	64.83	(a)	3,546.08
	7/14/17		(a)	63.95	(a)	3,546.96
	7/28/17		(a)	64.25	(a)	3,546.66
	8/7/17		(a)	66.04	(a)	3,544.87
	9/9/17		(a)	64.57	(a)	3,546.34
	11/13/17		(a)	66.42	(a)	3,544.49
	5/31/18		(a)	65.81	(a)	3,545.10
	11/6/18		(a)	66.27	(a)	3,544.64
	6/23/19		(a)	65.95	(a)	3,544.96
	1/6/20		(a)	65.65	(a)	3,545.26
MPE-14	3/10/09	NA	63.70	63.83	0.13	NA
	10/8/09		(a)	64.27	(a)	NA
	1/26/10		(a)	64.08	(a)	NA
	3/22/10		(a)	63.57	(a)	NA
	4/17/11		(a)	63.70	(a)	NA
	12/22/11		(a)	64.05	(a)	NA
	4/17/12		(a)	64.12	(a)	NA
	10/15/12		(a)	64.75	(a)	NA
	4/15/13		64.40	64.94	0.54	NA
	11/3/13	3611.31 (h)	64.40	65.87	1.47	3,546.56
	5/1/14		64.54	65.49	0.95	3,546.54
	11/21/14		65.20	65.48	0.28	3,546.04
	4/20/15		64.21	64.26	0.05	3,547.09
	11/3/15		(a)	65.37	(a)	3,545.94
	4/27/16		65.34	65.65	0.31	3,545.90
	8/28/16		(a)	NA	(a)	NA
	11/15/16		66.35	66.38	0.03	3,544.95
	5/22/17		65.28	65.67	0.39	3,545.94
	7/14/17		(a)	71.40	(a)	3,539.91
	7/28/17		(a)	70.45	(a)	3,540.86
	8/7/17		(a)	71.75	(a)	3,539.56
	9/9/17		(a)	72.80	(a)	3,538.51
	11/13/17		(a)	66.45	(a)	3,544.86
	5/31/18		65.47	66.30	0.83	3,545.64
	11/6/18		66.02	66.50	0.48	3,545.17
	6/23/19		65.42	66.08	0.66	3,545.73
	1/6/20		65.48	66.30	0.82	3,545.63
MPE-15	3/10/09	NA	(a)	62.40	(a)	NA
	10/8/09		(a)	62.59	(a)	NA
	3/22/10		(a)	62.36	(a)	NA
	4/17/11		(a)	62.20	(a)	NA
	12/22/11		(a)	62.75	(a)	NA
	4/17/12		(a)	63.05	(a)	NA
	10/15/12		(a)	63.05	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/15/13		(a)	63.19	(a)	NA
	11/3/13	3612.40 (h)	(a)	63.45	(a)	3,548.95
	5/1/14		(a)	63.70	(a)	3,548.70
	11/21/14		(a)	63.73	(a)	3,548.67
	4/20/15		(a)	63.74	(a)	3,548.66
	11/3/15		(a)	63.96	(a)	3,548.44
	4/27/16		(a)	64.14	(a)	3,548.26
	11/15/16		(a)	64.26	(a)	3,548.14
	5/22/17		(a)	64.28	(a)	3,548.12
	7/14/17		(a)	62.12	(a)	3,550.28
	7/28/17		(a)	62.03	(a)	3,550.37
	8/7/17		(a)	64.17	(a)	3,548.23
	9/9/17		(a)	64.58	(a)	3,547.82
	11/13/17		(a)	64.83	(a)	3,547.57
	5/31/18		(a)	64.53	(a)	3,547.87
	11/6/18		(a)	64.77	(a)	3,547.63
	6/23/19		(a)	64.50	(a)	3,547.90
	1/6/20		(a)	64.58	(a)	3,547.82
MPE-16	3/10/09	NA	64.32	65.75	1.43	NA
	10/8/09		65.63	Tagged pump	NA	NA
	1/26/10		64.64	66.30	1.66	NA
	3/22/10		64.27	66.21	1.94	NA
	4/17/11		64.25	65.18	0.93	NA
	12/22/11		64.61	65.79	1.18	NA
	4/17/12		64.74	67.17	2.43	NA
	10/15/12		64.89	67.41	2.52	NA
	4/15/13		64.80	66.55	1.75	NA
	11/3/13	3613.14 (h)	64.65	67.06	2.41	3,547.91
	5/1/14		65.27	67.19	1.92	3,547.41
	11/20/14		65.96	67.84	1.88	3,546.73
	4/20/15		65.23	66.56	1.33	3,547.59
	11/3/15		(a)	66.59	(a)	3,546.55
	4/27/16		66.28	67.03	0.75	3,546.68
	8/28/16		67.24	67.66	0.42	3,545.80
	11/15/16		67.17	67.90	0.73	3,545.79
	5/22/17		66.21	67.10	0.89	3,546.72
	7/14/17		71.94	71.95	0.01	3,541.20
	7/28/17		70.60	70.61	0.01	3,542.54
	8/7/17		(a)	71.85	(a)	3,541.29
	9/9/17		(a)	71.92	(a)	3,541.22
	11/13/17		67.80	67.90	0.10	3,545.32
	5/31/18		67.85	69.46	1.61	3,544.90
	11/6/18		67.38	67.95	0.57	3,545.62
	6/23/19		67.84	68.85	1.01	3,545.06
	1/6/20		67.75	69.75	2.00	3,544.91
MPE-17	3/10/09	NA	64.80	65.07	0.27	NA
	10/8/09		65.48	65.55	0.07	NA
	1/26/10		65.19	65.22	0.03	NA
	3/22/10		(a)	64.77	(a)	(a)
	4/17/11		(a)	64.93	(a)	(a)
	12/22/11		(a)	65.37	(a)	(a)
	4/17/12		65.22	65.37	0.15	(a)
	10/15/12		65.95	66.81	0.86	(a)
	4/15/13		65.62	66.06	0.44	(a)

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/13	3612.75 (h)	65.63	67.49	1.86	3,546.67
	5/1/14		65.75	66.45	0.70	3,546.83
	11/21/14		66.15	66.64	0.49	3,546.48
	4/20/15		66.08	67.38	1.30	3,546.36
	11/3/15		(a)	66.88	(a)	3,545.87
	4/27/16		66.71	66.72	0.01	3,546.04
	8/28/16		(a)	67.81	(a)	3,544.94
	11/16/16		67.84	67.90	0.06	3,544.90
	5/22/17		66.60	66.95	0.35	3,546.07
	7/14/17		(a)	71.15	(a)	3,541.60
	7/28/17		(a)	71.11	(a)	3,541.64
	8/7/17		(a)	71.12	(a)	3,541.63
	9/9/17		(a)	71.15	(a)	3,541.60
	11/13/17		68.20	68.35	0.15	3,544.51
	5/31/18		67.15	67.30	0.15	3,545.56
	11/6/18		67.68	67.75	0.07	3,545.05
	6/24/19		66.90	67.10	0.20	3,545.80
	1/6/20		67.00	67.15	0.15	3,545.71
MPE-18	3/10/09	NA	(a)	61.65	(a)	NA
	10/8/09		(a)	61.93	(a)	NA
	3/22/10		(a)	61.44	(a)	NA
	4/17/11		(a)	61.70	(a)	NA
	12/22/11		(a)	62.19	(a)	NA
	4/17/12		(a)	62.39	(a)	NA
	10/15/12		(a)	62.78	(a)	NA
	4/15/13		(a)	62.64	(a)	NA
	11/3/13	3611.12 (h)	(a)	62.93	(a)	3,548.19
	5/1/14		(a)	63.07	(a)	3,548.05
	11/21/14		(a)	63.04	(a)	3,548.08
	4/20/15		(a)	62.97	(a)	3,548.15
	11/3/15		(a)	63.28	(a)	3,547.84
	4/27/16		(a)	63.45	(a)	3,547.67
	11/16/16		(a)	63.61	(a)	3,547.51
	5/22/17		(a)	63.43	(a)	3,547.69
	7/14/17		(a)	62.28	(a)	3,548.84
	7/28/17		(a)	62.43	(a)	3,548.69
	8/7/17		(a)	64.21	(a)	3,546.91
	9/9/17		(a)	64.53	(a)	3,546.59
	11/13/17		(a)	64.32	(a)	3,546.80
	5/30/18		(a)	63.58	(a)	3,547.54
	11/6/18		(a)	64.03	(a)	3,547.09
	6/24/19		(a)	63.42	(a)	3,547.70
	1/6/20		(a)	63.51	(a)	3,547.61
MPE-19	3/10/09	NA	(a)	65.02	(a)	NA
	10/8/09		(a)	65.54	(a)	NA
	3/22/10		(a)	65.14	(a)	NA
	4/17/11		(a)	65.11	(a)	NA
	12/22/11		(a)	65.54	(a)	NA
	4/17/12		(a)	65.53	(a)	NA
	10/15/12		(a)	65.91	(a)	NA
	4/15/13		(a)	66.03	(a)	NA
	11/3/13	3614.46 (h)	(a)	66.05	(a)	3,548.41
	5/1/14		(a)	66.08	(a)	3,548.38
	11/21/14		(a)	66.62	(a)	3,547.84
	4/20/15		(a)	66.16	(a)	3,548.30

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/15		(a)	66.50	(a)	3,547.96
	4/27/16		(a)	66.31	(a)	3,548.15
	11/16/16		(a)	66.77	(a)	3,547.69
	5/22/17		(a)	66.40	(a)	3,548.06
	7/14/17		(a)	63.95	(a)	3,550.51
	7/28/17		(a)	64.17	(a)	3,550.29
	8/7/17		(a)	62.26	(a)	3,552.20
	9/9/17		(a)	63.82	(a)	3,550.64
	11/13/17		(a)	67.37	(a)	3,547.09
	5/31/18		(a)	66.88	(a)	3,547.58
	11/6/18		(a)	67.04	(a)	3,547.42
	6/24/19		(a)	66.33	(a)	3,548.13
	1/6/20		(a)	66.40	(a)	3,548.06
MPE-20	3/10/09	NA	62.58	64.52	1.94	NA
	10/8/09		62.45	65.34	2.89	NA
	1/26/10		62.28	65.10	2.82	NA
	3/22/10		61.58	64.81	3.23	NA
	4/17/11		62.10	64.45	2.35	NA
	12/22/11		62.70	64.58	1.88	NA
	4/17/12		63.09	64.86	1.77	NA
	10/15/12		64.41	65.23	0.82	NA
	4/15/13		63.52	64.98	1.46	NA
	11/3/13	3611.40 (h)	63.37	64.28	0.91	3,547.81
	5/1/14		63.64	65.23	1.59	3,547.38
	11/21/14		65.59	66.47	0.88	3,545.60
	4/21/15		63.75	64.77	1.02	3,547.41
	11/3/15		64.81	66.00	1.19	3,546.30
	4/27/16		64.73	65.91	1.18	3,546.39
	8/28/16		66.07	66.09	0.02	3,545.33
	11/16/16		65.75	67.05	1.30	3,545.34
	5/22/17		64.57	65.60	1.03	3,546.58
	7/14/17		(a)	70.20	(a)	3,541.20
	7/28/17		(a)	71.99	(a)	3,539.41
	8/7/17		(a)	70.27	(a)	3,541.13
	9/9/17		(a)	70.35	(a)	3,541.05
	11/13/17		66.13	67.27	1.14	3,545.00
	5/31/18		(a)	65.75	(a)	3,545.65
	6/24/19		(a)	69.23	(a)	3,546.72
	1/6/20		64.38	64.50	0.12	3,542.17
MPE-21	3/10/09	NA	(a)	56.57	(a)	NA
	10/8/09		(a)	57.13	(a)	NA
	1/26/10		(a)	57.71	(a)	NA
	3/22/10		(a)	57.68	(a)	NA
	4/17/11		(a)	57.30	(a)	NA
	12/22/11		(a)	57.82	(a)	NA
	4/17/12		58.20	58.31	0.11	NA
	10/15/12		58.02	58.07	0.05	NA
	4/15/13		57.73	59.11	1.38	NA
	11/3/13	3607.52 (h)	56.94	57.82	0.88	3,550.37
	5/1/14		58.32	58.75	0.43	3,549.10
	11/21/14		58.71	59.97	1.26	3,548.51
	4/21/15		56.73	57.95	1.22	3,550.50
	11/3/15		(a)	59.13	(a)	3,548.39
	4/27/16		(a)	59.50	(a)	3,548.02
	8/28/16		(a)	59.24	(a)	3,548.28

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/16/16		(a)	59.38	(a)	3,548.14
	5/22/17		(a)	59.45	(a)	3,548.07
	7/14/17		(a)	65.99	(a)	3,541.53
	7/28/17		(a)	65.95	(a)	3,541.57
	8/7/17		(a)	66.08	(a)	3,541.44
	9/9/17		(a)	66.95	(a)	3,540.57
	11/13/17		(a)	60.90	(a)	3,546.62
	5/30/18		(a)	59.60	(a)	3,547.92
	11/6/18		(a)	60.08	(a)	3,547.44
	6/24/19		(a)	60.95	(a)	3,546.57
	1/6/20		(a)	66.90	(a)	3,540.62
MPE-22	3/10/09	NA	(a)	67.17	(a)	NA
	10/8/09		(a)	67.68	(a)	NA
	1/26/10		(a)	67.33	(a)	NA
	3/22/10		(a)	66.99	(a)	NA
	4/17/11		(a)	67.25	(a)	NA
	12/22/11		(a)	67.61	(a)	NA
	4/17/12		(a)	67.44	(a)	NA
	10/18/12		(a)	68.20	(a)	NA
	4/15/13		(a)	67.87	(a)	NA
	11/3/13	3616.80 (h)	(a)	68.28	(a)	3,548.52
	5/1/14		(a)	68.12	(a)	3,548.68
	11/21/14		(a)	68.59	(a)	3,548.21
	4/21/15		(a)	68.23	(a)	3,548.57
	11/3/15		(a)	68.24	(a)	3,548.56
	4/29/16		(a)	68.14	(a)	3,548.66
	11/16/16		(a)	69.13	(a)	3,547.67
	5/22/17		(a)	68.50	(a)	3,548.30
	11/6/17		(a)	68.68	(a)	3,548.12
	11/13/17		(a)	68.78	(a)	3,548.02
	6/1/18		(a)	68.42	(a)	3,548.38
	11/6/18		(a)	68.80	(a)	3,548.00
	6/24/19		(a)	68.16	(a)	3,548.64
	1/5/20		(a)	68.19	(a)	3,548.61
MPE-23	3/10/09	NA	62.85	64.00	1.15	NA
	10/8/09		62.58	64.90	2.32	NA
	1/26/10		62.84	63.98	1.14	NA
	3/22/10		61.94	62.58	0.64	NA
	4/17/11		62.31	62.78	0.47	NA
	12/22/11		62.45	64.70	2.25	NA
	4/17/12		62.57	64.58	2.01	NA
	10/18/12		63.35	65.36	2.01	NA
	4/15/13		62.78	65.30	2.52	NA
	11/3/13	3612.44 (h)	63.45	65.52	2.07	3,548.49
	5/1/14		63.41	64.65	1.24	3,548.73
	11/21/14		63.97	65.57	1.6	3,548.09
	4/21/15		63.29	65.43	2.14	3,548.64
	11/3/15		(a)	64.07	(a)	3,548.37
	4/29/16		63.97	64.00	0.03	3,548.46
	8/28/16		63.74	66.05	2.31	3,548.15
	11/16/16		63.97	66.00	2.03	3,547.98
	5/22/17		63.62	65.03	1.41	3,548.48
	11/6/17		(a)	72.45	(a)	3,539.99
	11/13/17		(a)	72.45	(a)	3,539.99
	6/1/18		64	64.75	0.75	3,547.69

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/6/18		(a)	65.11	(a)	3,547.33
	6/24/19		63.55	63.56	0.01	3,548.88
	1/5/20		(a)	63.55	(a)	3,548.89
MPE-24	3/10/09	NA	57.55	58.93	1.38	3,547.33
	10/8/09		57.20	59.52	2.32	NA
	1/26/10		57.65	59.92	2.27	NA
	3/22/10		57.41	59.75	2.34	NA
	4/17/11		57.57	59.57	2.00	NA
	12/22/11		58.27	60.95	2.68	NA
	4/17/12		58.43	61.11	2.68	NA
	10/15/12		58.10	64.85	6.75	NA
	4/15/13		58.08	63.22	5.14	NA
	11/3/13	3608.45 (h)	58.33	62.96	4.63	3,549.01
	5/1/14		58.61	63.91	5.30	3,548.57
	11/21/14		58.58	65.93	7.35	3,548.11
	4/21/15		58.49	63.30	4.81	3,548.81
	11/3/15		60.03	60.10	0.07	3,548.40
	4/29/16		60.12	60.20	0.08	3,548.31
	11/16/16		59.46	63.22	3.76	3,548.09
	5/22/17		59.80	61.40	1.60	3,548.27
	11/6/17		(a)	71.71	(a)	3,536.74
	11/13/17		61.21	61.23	0.02	3,547.24
	5/31/18		(a)	59.71	(a)	3,548.74
	11/6/18		(a)	59.88	(a)	3,548.57
	6/24/19		(a)	59.27	(a)	3,549.18
	1/6/20		(a)	59.60	(a)	3,548.85
MPE-25	3/10/09	NA	(a)	67.13	(a)	NA
	10/8/09		(a)	67.79	(a)	NA
	1/26/10		(a)	67.40	(a)	NA
	3/22/10		(a)	67.07	(a)	NA
	4/17/11		(a)	67.32	(a)	NA
	12/22/11		(a)	67.79	(a)	NA
	4/17/12		(a)	67.50	(a)	NA
	10/18/12		(a)	68.32	(a)	NA
	4/15/13		(a)	68.03	(a)	NA
	11/3/13	3616.99 (h)	(a)	68.46	(a)	3,548.53
	5/1/14		(a)	68.20	(a)	3,548.79
	11/21/14		(a)	68.74	(a)	3,548.25
	4/21/15		(a)	68.35	(a)	3,548.64
	11/3/15		(a)	68.27	(a)	3,548.72
	4/29/16		(a)	68.20	(a)	3,548.79
	11/16/16		(a)	69.15	(a)	3,547.84
	5/22/17		(a)	68.27	(a)	3,548.72
	11/6/17		(a)	65.10	(a)	3,551.89
	11/13/17		(a)	69.10	(a)	3,547.89
	6/1/18		(a)	68.65	(a)	3,548.34
	11/6/18		(a)	68.82	(a)	3,548.17
	6/24/19		(a)	67.40	(a)	3,549.59
	1/5/20		(a)	68.05	(a)	3,548.94
MPE-26	3/10/09	NA	64.54	64.86	0.32	NA
	10/8/09		65.30	65.70	0.40	NA
	1/26/10		64.84	65.32	0.48	NA
	3/22/10		64.46	65.04	0.58	NA
	4/17/11		(a)	64.70	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	12/22/11		65.19	65.63	0.44	NA
	4/17/12		64.92	65.48	0.56	NA
	10/15/12		65.60	66.10	0.50	NA
	4/15/13		65.54	66.05	0.51	NA
	11/3/13	3614.30 (h)	65.78	65.82	0.04	3,548.51
	5/1/14		65.71	65.96	0.25	3,548.53
	11/21/14		66.28	66.63	0.35	3,547.94
	4/21/15		65.75	66.04	0.29	3,548.48
	11/3/15		65.66	66.02	0.36	3,548.55
	4/29/16		65.62	65.98	0.36	3,548.59
	11/16/16		66.63	67.05	0.42	3,547.57
	5/22/17		65.98	66.30	0.32	3,548.24
	11/6/17		(a)	62.57	(a)	3,551.73
	11/13/17		66.64	66.67	0.03	3,547.65
	6/1/18		66.1	66.12	0.02	3,548.20
	11/6/18		(a)	66.18	(a)	3,548.12
	6/24/19		(a)	66.49	(a)	3,547.81
	1/5/20		(a)	65.53	(a)	3,548.77
MPE-27	3/10/09	NA	62.65	64.96	2.31	NA
	10/8/09		63.05	69.05	6.00	NA
	1/26/10		(a)	62.92	(a)	NA
	3/22/10		62.60	64.38	1.78	NA
	4/17/11		62.54	tag top of pump	NA	NA
	12/22/11		(a)	62.81	(a)	NA
	4/17/12		63.34	63.63	0.29	NA
	10/15/12		64.62	65.38	0.76	NA
	4/15/13		(a)	tag top of pump	NA	NA
	11/3/13	3612.96 (h)	62.92	65.70	2.78	3,549.37
	5/1/14		63.75	67.31	3.56	3,548.36
	11/21/14		(a)	65.48	(a)	3,547.48
	4/21/15		63.85	65.70	1.85	3,548.67
	11/3/15		64.37	64.40	0.03	3,548.58
	4/29/16		64.35	64.37	0.02	3,548.61
	8/28/16		(a)	65.45	(a)	3,547.51
	11/16/16		(a)	65.41	(a)	3,547.55
	5/22/17		64.58	64.70	0.12	3,548.35
	11/6/17		(a)	75.10	(a)	3,537.86
	11/13/17		67.95	68.27	0.32	3,544.93
	6/1/18		64.4	65.21	0.81	3,547.75
	11/6/18		(a)	64.35	(a)	3,548.61
	6/24/19		(a)	62.95	(a)	3,550.01
	1/5/20		63.61	64.85	1.24	3,549.05
MPE-28	3/10/09	NA	55.01	59.20	4.19	NA
	10/8/09		56.72	60.21	3.49	NA
	1/26/10		56.12	59.78	3.66	NA
	3/22/10		55.50	59.20	3.70	NA
	4/17/11		(a)	56.78	(a)	NA
	12/22/11		(a)	58.61	(a)	NA
	4/17/12		(a)	57.45	(a)	NA
	10/15/12		(a)	58.30	(a)	NA
	4/15/13		57.85	57.88	0.03	NA
	11/3/13	3607.49 (h)	(a)	58.39	(a)	3,549.10
	5/1/14		58.32	58.40	0.08	3,554.62
	11/21/14		(a)	60.74	(a)	3,546.75
	4/21/15		(a)	57.72	(a)	3,549.77

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/15		57.60	57.61	0.01	3,555.36
	4/28/16		57.38	57.44	0.06	3,555.57
	11/16/16		NA	NA	NA	NA
	5/22/17		57.65	57.80	0.15	3555.27
	11/6/17		(a)	56.80	(a)	3550.69
	11/13/17		(a)	58.33	(a)	3,549.16
	6/1/18		(a)	57.74	(a)	3,549.75
	11/6/18		(a)	58.12	(a)	3,549.37
	6/24/19		(a)	56.68	(a)	3,550.81
	1/6/20		(a)	56.90	(a)	3,550.59
MPE-29	3/10/09	NA	(a)	67.35	(a)	NA
	10/8/09		(a)	68.38	(a)	NA
	3/22/10		(a)	67.58	(a)	NA
	4/17/11		(a)	67.73	(a)	NA
	12/22/11		(a)	68.38	(a)	NA
	4/17/12		(a)	67.98	(a)	NA
	10/18/12		(a)	68.95	(a)	NA
	4/15/13		(a)	68.44	(a)	NA
	11/3/13	3617.10 (h)	(a)	69.00	(a)	3,548.10
	5/1/14		(a)	68.68	(a)	3,548.42
	11/21/14		(a)	69.41	(a)	3,547.69
	4/21/15		(a)	68.75	(a)	3,548.35
	11/3/15		(a)	68.65	(a)	3,548.45
	4/29/16		(a)	68.57	(a)	3,548.53
	11/16/16		(a)	69.62	(a)	3,547.48
	5/22/17		(a)	68.65	(a)	3,548.45
	11/6/17		(a)	69.75	(a)	3,547.35
	11/13/17		(a)	69.77	(a)	3,547.33
	6/1/18		(a)	69.10	(a)	3,548.00
	11/6/18		(a)	69.12	(a)	3,547.98
	6/24/19		(a)	68.30	(a)	3,548.80
	1/5/20		(a)	68.31	(a)	3,548.79
MPE-30	3/10/09	NA	(a)	64.92	(a)	NA
	10/8/09		(a)	66.20	(a)	NA
	3/22/10		(a)	65.41	(a)	NA
	4/17/11		(a)	65.25	(a)	NA
	12/22/11		(a)	65.91	(a)	NA
	4/17/12		(a)	65.78	(a)	NA
	10/18/12		(a)	66.46	(a)	NA
	4/15/13		(a)	66.35	(a)	NA
	11/3/13	3616.01 (h)	(a)	66.93	(a)	3,549.08
	5/1/14		(a)	66.97	(a)	3,549.04
	11/21/14		(a)	67.36	(a)	3,548.65
	4/21/15		(a)	66.56	(a)	3,549.45
	11/3/15		(a)	66.26	(a)	3,549.75
	4/28/16		(a)	66.08	(a)	3,549.93
	11/16/16		(a)	67.38	(a)	3,548.63
	5/22/17		NA	NA	NA	NA
	11/13/17		(a)	67.95	(a)	3,548.06
	6/1/18		(a)	67.37	(a)	3,548.64
	11/6/18		(a)	67.32	(a)	3,548.69
	6/24/19		(a)	66.03	(a)	3,549.98
	1/5/20		(a)	66.08	(a)	3,549.93
MPE-31	3/10/09	NA	63.22	63.24	0.02	NA
	10/8/09		(a)	65.28	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	1/26/10		(a)	63.99	(a)	NA
	3/22/10		63.46	63.47	0.01	NA
	4/17/11		(a)	63.41	(a)	NA
	12/22/11		64.22	64.69	0.47	NA
	4/17/12		64.04	64.45	0.41	NA
	10/18/12		65.28	65.82	0.54	NA
	4/15/13		64.16	65.16	1.00	NA
	11/3/13	3613.18 (h)	64.64	65.11	0.47	3,548.43
	5/1/94		64.62	65.64	1.02	3,548.32
	11/21/14		65.79	66.39	0.60	3,547.25
	4/21/15		64.36	64.98	0.62	3,548.67
	11/3/15		64.14	64.68	0.54	3,548.91
	4/28/16		64.98	65.46	0.48	3,548.08
	8/28/16		(a)	65.89	(a)	3,547.29
	11/16/16		(a)	65.75	(a)	3,547.43
	5/22/17		(a)	64.81	(a)	3,548.37
	11/13/17		(a)	66.45	(a)	3,546.73
	6/1/18		(a)	65.02	(a)	3,548.16
	11/6/18		(a)	63.95	(a)	3,549.23
	6/24/19		(a)	63.98	(a)	3,549.20
	1/5/20		(a)	64.00	(a)	3,549.18
MPE-32	3/10/09	NA	57.01	59.81	2.80	NA
	10/8/09		(a)	62.21	(a)	NA
	1/26/10		57.90	61.23	3.33	NA
	3/22/10		(a)	57.30	(a)	NA
	4/17/11		(a)	57.32	(a)	NA
	12/22/11		(a)	56.62	(a)	NA
	4/17/12		58.55	61.08	2.53	NA
	10/15/12		NA	Tag top of pump	NA	NA
	4/15/13		59.16	59.35	0.19	NA
	11/3/13	3607.41 (h)	(a)	60.03	(a)	3,547.38
	5/1/14		59.65	60.53	0.88	3,547.55
	11/21/14		(a)	62.50	(a)	3,544.91
	4/21/15		58.27	61.3	3.03	3,548.41
	11/3/15		58.66	59.08	0.42	3,548.65
	4/28/16		59.11	59.65	0.54	3,548.17
	8/28/16		(a)	61.96	(a)	3,545.45
	11/16/16		61.22	61.39	0.17	3,546.15
	5/22/17		58.62	60.75	2.13	3,548.28
	11/13/17		(a)	62.93	(a)	3,544.48
	6/1/18		59.82	60.01	0.19	3,547.54
	11/6/18		(a)	57.15	(a)	3,550.26
	6/24/19		57.03	59.30	2.27	3,549.84
	1/6/20		57.70	59.20	1.50	3,549.35
MPE-33	3/10/09	NA	(a)	53.82	(a)	NA
	10/8/09		(a)	56.63	(a)	NA
	3/22/10		(a)	54.56	(a)	NA
	4/17/11		(a)	54.73	(a)	NA
	12/22/11		(a)	56.65	(a)	NA
	4/17/12		(a)	55.85	(a)	NA
	10/15/12		(a)	58.43	(a)	NA
	4/15/13		(a)	56.43	(a)	NA
	11/3/13	3603.22 (h)	(a)	57.14	(a)	3,546.08
	5/1/14		(a)	56.65	(a)	3,546.57
	11/21/14		(a)	58.46	(a)	3,544.76

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/21/15		(a)	54.22	(a)	3,549.00
	11/3/15		(a)	54.31	(a)	3,548.91
	4/28/16		(a)	54.47	(a)	3,548.75
	11/16/16		(a)	57.72	(a)	3,545.50
	5/22/17		(a)	55.02	(a)	3,548.20
	11/13/17		(a)	57.40	(a)	3,545.82
	6/1/18		(a)	56.00	(a)	3,547.22
	11/6/18		(a)	54.44	(a)	3,548.78
	6/24/19		(a)	52.67	(a)	3,550.55
	1/6/20		(a)	53.05	(a)	3,550.17
MPE-34	3/10/09	NA	(a)	65.24	(a)	NA
	10/8/09		(a)	65.78	(a)	NA
	3/22/10		(a)	65.56	(a)	NA
	4/17/11		(a)	65.40	(a)	NA
	12/22/11		(a)	65.76	(a)	NA
	4/17/12		(a)	65.79	(a)	NA
	10/18/12		(a)	66.15	(a)	NA
	4/15/13		(a)	66.20	(a)	NA
	11/3/13	3616.24 (h)	(a)	66.28	(a)	3,549.96
	5/1/14		(a)	66.23	(a)	3,550.01
	11/21/14		(a)	65.89	(a)	3,550.35
	4/21/15		(a)	65.57	(a)	3,550.67
	11/3/15		(a)	65.27	(a)	3,550.97
	4/28/16		(a)	65.10	(a)	3,551.14
	11/16/16		(a)	65.68	(a)	3,550.56
	5/22/17		(a)	65.38	(a)	3,550.86
	11/13/17		(a)	65.70	(a)	3,550.54
	6/1/18		(a)	65.47	(a)	3,550.77
	11/6/18		(a)	65.46	(a)	3,550.78
	6/24/19		(a)	64.75	(a)	3,551.49
	1/5/20		(a)	64.70	(a)	3,551.54
MPE-35	3/10/09	NA	(a)	59.29	(a)	NA
	10/8/09		(a)	59.96	(a)	NA
	3/22/10		(a)	59.36	(a)	NA
	4/17/11		(a)	59.16	(a)	NA
	12/22/11		(a)	59.67	(a)	NA
	4/17/12		(a)	59.80	(a)	NA
	10/15/12		(a)	60.00	(a)	NA
	4/15/13		(a)	60.08	(a)	NA
	11/3/13	3609.95 (h)	59.96	60.32	0.36	3,549.90
	11/13/13		60.04	60.35	0.31	3,549.84
	5/1/14		60.08	60.30	0.22	3,549.82
	11/21/14		59.51	60.04	0.53	3,550.31
	4/21/15		59.22	60.07	0.85	3,550.53
	11/3/15		58.45	59.91	1.46	3,551.15
	4/28/16		58.45	60.85	2.40	3,550.92
	11/16/16		58.58	61.38	2.80	3,550.70
	5/22/17		58.70	61.45	2.75	3,550.59
	11/13/17		59.19	62.05	2.86	3,550.07
	6/1/18		59.24	61.30	2.06	3,550.22
	11/6/18		58.75	60.50	1.75	3,550.78
	6/24/19		58.14	59.15	1.01	3,551.57
	1/6/20		58.50	60.22	1.72	3,551.04
MPE-36	3/10/09	NA	(a)	54.45	(a)	NA
	10/8/09		(a)	57.35	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	3/22/10		(a)	55.09	(a)	NA
	4/17/11		(a)	54.78	(a)	NA
	12/22/11		(a)	56.05	(a)	NA
	4/17/12		(a)	55.99	(a)	NA
	10/15/12		(a)	57.20	(a)	NA
	4/15/13		(a)	56.35	(a)	NA
	11/3/13	3604.60 (h)	(a)	56.58	(a)	3,548.02
	5/1/14		(a)	56.78	(a)	3,547.82
	11/21/14		(a)	53.13	(a)	3,551.47
	4/21/15		(a)	55.71	(a)	3,548.89
	11/3/15		(a)	50.73	(a)	3,553.87
	4/28/16		(a)	55.56	(a)	3,549.04
	11/16/16		(a)	56.90	(a)	3,547.70
	5/22/17		(a)	56.13	(a)	3,548.47
	11/13/17		(a)	58.35	(a)	3,546.25
	6/1/18		(a)	56.52	(a)	3,548.08
	11/6/18		(a)	40.74	(a)	3,563.86
	6/24/19		(a)	53.97	(a)	3,550.63
	1/6/20		(a)	54.62	(a)	3,549.98
MPE-37	3/10/09	NA	(a)	51.90	(a)	NA
	10/8/09		(a)	56.51	(a)	NA
	3/22/10		(a)	52.40	(a)	NA
	4/17/11		(a)	52.22	(a)	NA
	12/22/11		(a)	53.48	(a)	NA
	4/17/12		(a)	53.26	(a)	NA
	10/15/12		(a)	54.68	(a)	NA
	4/15/13		(a)	53.63	(a)	NA
	11/3/13	3601.20 (h)	(a)	54.05	(a)	3,547.15
	5/1/14		(a)	54.03	(a)	3,547.17
	11/21/14		(a)	56.17	(a)	3,545.03
	4/21/15		(a)	53.00	(a)	3,548.20
	11/3/15		(a)	52.02	(a)	3,549.18
	4/28/16		(a)	52.61	(a)	3,548.59
	11/16/16		(a)	54.17	(a)	3,547.03
	5/22/17		(a)	53.26	(a)	3,547.94
	11/13/17		(a)	55.83	(a)	3,545.37
	6/1/18		(a)	53.80	(a)	3,547.40
	11/6/18		(a)	49.91	(a)	3,551.29
	6/24/19		(a)	51.55	(a)	3,549.65
	1/6/20		(a)	52.22	(a)	3,548.98
MPE-38	8/16/13	3613.81 (h)	63.85	68.88	5.03	3,548.75
	11/3/13		65.89	68.62	2.73	3,547.26
	5/1/14		66.14	69.00	2.86	3,546.98
	11/21/14		67.31	69.85	2.54	3,545.89
	4/21/15		66.44	68.75	2.31	3,546.82
	11/3/15		67.25	69.96	2.71	3,545.91
	4/27/16		66.98	69.80	2.82	3,546.15
	8/28/16		67.93	70.05	2.12	3,545.37
	11/16/16		67.87	70.47	2.6	3,545.32
	5/22/17		67.05	70.05	3.0	3,546.04
	7/14/17		71.19	71.20	0.01	3,542.62
	7/28/17		(a)	71.22	(a)	3,542.59
	8/7/17		(a)	71.1	(a)	3,542.71
	9/9/17		71.03	71.05	0.02	3,542.78
	11/13/17		68.90	71.45	2.55	3,544.30

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	5/31/18		67.62	72.40	4.78	3,545.04
	11/6/18		68.39	70.65	2.26	3,544.88
	6/24/19		67.58	69.54	1.96	3,545.76
	1/6/20		67.68	69.41	1.73	3,545.71
MPE-39	8/16/13	3608.26 (h)	(a)	60.45	(a)	3,547.81
	11/3/13		(a)	60.21	(a)	3,548.05
	5/1/14		60.35	60.48	0.13	3,547.78
	11/21/14		61	61.26	0.26	3,547.20
	4/21/15		59.99	62.39	2.40	3,547.69
	11/3/15		61.17	61.18	0.01	3,547.09
	4/27/16		61.20	61.21	0.01	3,547.06
	8/28/16		61.90	62.02	0.12	3,546.33
	11/16/16		61.77	61.85	0.08	3,546.47
	5/22/17		61.0	62.30	1.30	3546.95
	11/13/17		(a)	62.50	(a)	3,545.76
	5/31/18		61.00	61.02	0.02	3,547.26
	11/6/18		(a)	61.64	(a)	3,546.62
	6/24/19		60.78	60.85	0.07	3,547.46
	1/6/20		61.10	61.25	0.15	3,547.12
MPE-40	8/16/13	3610.84 (h)	61.52	61.95	0.43	3,549.22
	11/3/13		61.95	62.25	0.30	3,548.82
	5/1/14		61.80	62.15	0.35	3,548.96
	11/21/14		62.81	63.21	0.40	3,547.93
	4/21/15		61.35	64.74	3.39	3,548.68
	11/3/15		61.52	66.91	5.39	3,548.03
	4/29/16		61.48	66.68	5.20	3,548.11
	11/16/16		61.85	69.95	8.10	3,547.05
	5/22/17		61.87	67.35	5.48	3,547.65
	11/6/17		63.72	70.58	6.86	3,545.47
	11/13/17		63.72	70.58	6.86	3,545.47
	6/1/18		61.2	62.53	1.33	3,549.32
	11/6/18		62.59	63.14	0.55	3,548.12
	6/24/19		61.37	63.35	1.98	3,548.99
	1/5/20		61.65	64.45	2.80	3,548.52
MPE-41	8/16/13	3605.49 (h)	60.40	60.90	0.50	3,544.97
	11/3/13		56.19	62.74	6.55	3,547.73
	11/13/13		56.58	62.72	6.14	3,547.44
	5/1/14		56.35	62.85	6.50	3,547.58
	11/21/14		60.87	61.23	0.36	3,544.53
	4/21/15		56.03	61.1	5.07	3,548.24
	11/3/15		55.78	59.07	3.29	3,548.92
	4/28/16		56.51	60.44	3.93	3,548.04
	8/28/16		58.98	61.17	2.19	3,545.98
	11/16/16		58.21	61.02	2.81	3,546.61
	5/22/17		56.48	61.47	4.99	3,547.81
	11/6/17		(a)	71.05	(a)	3,534.44
	11/13/17		(a)	61.20	(a)	3,544.29
	6/1/18		57.8	59.18	1.38	3,546.31
	6/24/19	Not Gauged due to Pump Interference				
	1/7/20		56.5	57.75	1.25	3,548.69
SVE-1A	6/24/19	NA	(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
SVE-2A	6/24/19	NA	(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
SVE-3	6/24/19	NA	(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
SVE-22	3/10/09	NA	33.00	33.20	0.20	NA
	10/8/09		32.92	33.10	0.18	NA
	1/26/10		33.05	33.05 (TD)	0.00	NA
	3/22/10		33.02	33.02 (TD)	0.00	NA
	4/17/11		32.90	33.00 (TD)	0.10	NA
	12/22/11		(a)	33.04	(a)	NA
	4/17/12		(a)	33.00 (TD)	(a)	NA
	10/18/12		(a)	33.00 (TD)	(a)	NA
	4/15/13		(a)	32.98	(a)	NA
	11/3/13	3616.76 (h)	(a)	33.08	(a)	3,583.68
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	dry	(a)	NA
	11/3/15		33.00	33.11	0.11	3,583.73
	4/29/16		32.94	33.09	0.15	3,583.78
	11/16/16		32.78	32.95	0.17	3,583.94
	5/22/17		33.00	33.10	0.10	3,583.74
	11/13/17		33.14	33.19	0.05	3,583.61
	6/1/18		33.02	33.10	0.08	3,583.72
	11/6/18		(a)	33.05	(a)	3,583.71
	6/24/19		32.74	32.75	0.01	3,584.02
	1/5/20		(a)	dry	(a)	NA
SVE-23	3/10/09	NA	32.78	36.75	3.97	NA
	10/8/09		33.01	33.79	0.78	NA
	1/26/10		33.12	36.98 (TD)	3.86	NA
	3/22/10		32.09	33.65	1.56	NA
	4/17/11		33.00	33.30	0.30	NA
	12/22/11		33.60	34.05	0.45	NA
	4/17/12		33.62	34.10	0.48	NA
	10/18/12		34.11	34.68	0.57	NA
	4/15/13		33.65	33.92	0.27	NA
	11/3/13	3612.45 (h)	33.73	36.52	2.79	3,578.05
	5/1/14		33.78	36.80	3.02	3,577.95
	11/21/14		32.15	32.84	0.69	3,580.13
	4/21/15		32.75	33.4	0.65	3,579.54
	11/3/15		32.74	33.07	0.33	3,579.63
	4/29/16		33.01	33.33	0.32	3,579.36
	11/16/16		33.37	33.82	0.45	3,578.97
	5/22/17		33.60	34.15	0.55	3,578.72
	11/13/17		32.64	33.28	0.64	3,579.66
	6/1/18		33.27	33.95	0.68	3,579.02
	11/6/18		32.55	35.70	3.15	3,579.14
	6/24/19		Not Gauged - Snake Hazard Exist in Vault			
	1/5/20		33.10	33.75	0.65	3,579.19
SVE-24	3/10/09	NA	(a)	dry	(a)	NA
	10/8/09		(a)	dry	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	dry	(a)	NA
	4/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	dry	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3608.97 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	28.61	(a)	3,580.36
	11/3/15		(a)	dry	(a)	NA
	4/27/16		(a)	dry	(a)	NA
	11/16/16		(a)	dry	(a)	NA
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	dry	(a)	NA
	5/31/18		(a)	dry	(a)	NA
	11/6/18		(a)	dry	(a)	NA
	6/24/19		(a	dry	(a)	NA
	1/6/20		(a)	dry	(a)	NA
SVE-25	3/10/09	NA	(a)	32.70	(a)	NA
	10/8/09		(a)	31.40	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	32.80	(a)	NA
	4/17/11		(a)	32.23	(a)	NA
	12/22/11		(a)	32.65	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	32.70	(a)	NA
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3617.02 (h)	(a)	32.72	(a)	3,584.30
	5/1/14		(a)	32.70	(a)	3,584.32
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	32.73	(a)	3,584.29
	11/3/15		(a)	dry	(a)	NA
	4/29/16		(a)	dry	(a)	NA
	11/16/16		(a)	dry	(a)	NA
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	31.88	(a)	3,585.14
	6/1/18		(a)	32.6	(a)	3,584.42
	11/6/18		(a)	31.75	(a)	3,585.27
	6/24/19		(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
SVE-26	3/10/09	NA	(a)	dry	(a)	NA
	10/8/09		(a)	dry	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	dry	(a)	NA
	4/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	dry	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3614.43 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	32.6	(a)	3,581.83
	11/3/15		(a)	dry	(a)	NA
	4/29/16		(a)	dry	(a)	NA
	11/16/16		(a)	dry	(a)	NA
	5/22/17		(a)	dry	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/13/17		(a)	dry	(a)	NA
	6/1/18		(a)	dry	(a)	3,581.93
	11/6/18		(a)	dry	(a)	3,581.83
	6/24/19		(a)	dry	(a)	3,581.83
	1/5/20		(a)	dry	(a)	3,581.83
SVE-27	3/10/09	NA	(a)	32.92	(a)	NA
	10/8/09		(a)	33.63	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	33.70	(a)	NA
	4/17/11		(a)	33.70	(a)	NA
	12/22/11		(a)	33.83	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	33.82	(a)	NA
	11/3/13	3613.19 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	33.01	(a)	3,580.18
	4/21/15		(a)	33.58	(a)	3,579.61
	11/3/15		(a)	33.54	(a)	3,579.65
	4/29/16		(a)	33.82	(a)	3,579.37
	11/16/16		(a)	34.15	(a)	3,579.04
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	33.48	(a)	3,579.71
	6/1/18		(a)	34.00	(a)	3,579.19
	11/6/18		(a)	33.31	(a)	3,579.88
	6/24/19		Not Gauged - Snake Hazard Exist in Vault			
	1/5/20		(a)	dry	(a)	NA
SVE-28	3/10/09	NA	(a)	28.60	(a)	NA
	10/8/09		(a)	28.95	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	29.07	(a)	NA
	4/17/11		(a)	29.17	(a)	NA
	12/22/11		(a)	29.65	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	33.58	(a)	NA
	11/3/13	3607.84 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	28.59	(a)	3,579.25
	4/21/15		(a)	28.86	(a)	3,578.98
	11/3/15		(a)	28.75	(a)	3,579.09
	4/27/16		(a)	28.97	(a)	3,578.87
	11/16/16		(a)	29.18	(a)	3,578.66
	5/22/17		(a)	29.44	(a)	3,578.40
	11/13/17		(a)	28.76	(a)	3,579.08
	6/1/18		(a)	29.15	(a)	3,578.69
	11/6/18		(a)	28.53	(a)	3,579.31
	6/24/19		(a)	28.97	(a)	3,578.87
	1/5/20		(a)	28.81	(a)	3,579.03
SVE-30	3/10/09	NA	(a)	39.32	(a)	NA
	10/8/09		(a)	39.29	(a)	NA
	3/22/10		(a)	40.28	(a)	NA
	4/17/11		(a)	40.11	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	12/22/11		(a)	41.11	(a)	NA
	4/17/12		(a)	41.65	(a)	NA
	10/18/12		(a)	41.42	(a)	NA
	4/15/13		(a)	41.67	(a)	NA
	11/3/13	3616.00 (h)	(a)	43.02	(a)	3,572.98
	5/1/14		(a)	43.35	(a)	3,572.65
	11/21/14		(a)	43.30	(a)	3,572.70
	4/21/15		(a)	41.80	(a)	3,574.20
	11/3/15		(a)	41.60	(a)	3,574.40
	4/28/16		(a)	41.56	(a)	3,574.44
	11/16/16		(a)	41.23	(a)	3,574.77
	5/22/17		NA	NA	NA	NA
	11/13/17		(a)	42.00	(a)	3,574.00
	6/1/18		(a)	42.02	(a)	3,573.98
	11/6/18		(a)	42.46	(a)	3,573.54
	6/24/19		(a)	42.52	(a)	3,573.48
	1/5/20		(a)	42.45	(a)	3,573.55
SVE-31	3/10/09	NA	(a)	30.45	(a)	NA
	10/8/09		(a)	30.43	(a)	NA
	1/26/10		(a)	30.55	(a)	NA
	3/22/10		(a)	31.49	(a)	NA
	4/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	28.50	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3612.67 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	30.27	(a)	3,582.40
	4/21/15		(a)	30.97	(a)	3,581.70
	11/3/15		(a)	30.200	(a)	3,582.47
	4/28/16		(a)	30.35	(a)	3,582.32
	11/16/16		(a)	30.73	(a)	3,581.94
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	30.48	(a)	3,582.19
	6/1/18		(a)	dry	(a)	NA
	11/6/18		(a)	30.24	(a)	3,582.43
	6/24/19		(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
RW-1	3/10/09	NA	(a)	33.17	(a)	NA
	10/8/09		(a)	33.48	(a)	NA
	3/22/10		(a)	33.62	(a)	NA
	4/17/11		(a)	33.80	(a)	NA
	12/22/11		(a)	34.26	(a)	NA
	4/17/12		(a)	34.57	(a)	NA
	10/18/12		(a)	35.16	(a)	NA
	4/15/13		(a)	35.77	(a)	NA
	11/3/13	3612.72 (h)	(a)	34.95	(a)	3,577.77
	4/30/14		(a)	35.48	(a)	3,577.24
	11/19/14		(a)	32.46	(a)	3,580.26
	4/21/15		(a)	33.08	(a)	3,579.64
	11/3/15		(a)	33.00	(a)	3,579.72

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/28/16		(a)	33.32	(a)	3,579.40
	11/16/16		(a)	33.70	(a)	3,579.02
	5/22/17		(a)	34.03	(a)	3,578.69
	11/13/17		(a)	32.96	(a)	3,579.76
	6/1/18		(a)	33.62	(a)	3,579.10
	11/6/18		(a)	32.82	(a)	3,579.90
	6/24/19		(a)	33.57	(a)	3,579.15
	1/5/20		(a)	33.38	(a)	3,579.34

Notes:
PSH - Phase separated hydrocarbon
ft - feet
TOC - Top of Casing
Corrections to ground water surface elevation for PSH is calculated assuming a specific gravity of 0.76
(NA) Information not available
(a) Not applicable since no measurable thickness of PSH is present
(b) Elevation based on survey by Wagener Engineering dated 5/6/98
(c) Elevation based on survey by Wagener Engineering dated 9/17/98
(d) Elevation based on survey by Wagener Engineering dated 11/29/00
(e) Elevation based on survey by Wagener Engineering dated 10/03/01
(f) Elevation based on survey by Cypress Engineering dated 03/14/03
(g) Elevation based on survey by Cypress Engineering dated 06/23/07
(h) Elevation based on survey by PR Patton & Associates dated 10/01/13
Historical data before 2009 is presented in previous reports
Historical data for wells that were plugged and abandoned is not shown.

Prepared by: JIM 02/12/20
Checked by: RAH 2/21/20

Table 3-3. Summary of Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-10	2/13/2020	14:20	1.25	18.73	6.22	3.39	-121.2	3.793
MW-11	2/13/2020	14:55	1.75	18.17	6.05	5.06	-80.3	3.912
MW-13	1/8/20	16:20	3.5	19.53	6.93	3.12	-138.2	3.724
MW-14	1/7/20	9:41	4.25	18.52	6.96	2.58	-188.7	3.589
MW-16	6/24/19	Not sampled due to PSH in well						
	1/6/20	Not sampled due to PSH in well						
MW-17	2/13/20	15:35	2.00	18.06	6.26	3.82	-140.0	4.129
MW-20	6/25/19	9:17	6.00	20.17	6.85	6.48	100.9	3.717
	1/6/20	15:21	5.75	17.55	6.92	5.20	97.5	3.757
MW-21	6/24/19	11:40	4.00	20.75	6.68	1.66	-110.8	3.168
	11/26/19	11:00	4.0	18.32	6.18	1.96	-128.3	3.248
MW-22	6/25/19	8:45	3.5	18.96	6.94	6.71	96.6	3.684
	1/6/20	14:31	3.5	18.35	7.32	5.86	61.9	3.914
MW-24D	1/7/20	10:35	55	18.81	7.1	0.51	60.2	3.225
MW-26	6/25/19	10:03	7.5	18.90	6.76	6.76	104.4	3.741
	1/6/20	16:21	7.25	18.24	6.89	5.46	72.1	3.627
MW-27	11/26/19	9:50	2.75	19.26	6.47	1.32	-308.4	3.737
MW-29	6/24/19	11:00	2.00	21.02	6.7	0.79	-142.4	3.209
	11/25/19	16:05	2.0	20.69	6.7	2.33	-116.1	3.412
MW-32	11/25/19	14:02	3.25	19.41	6.08	2.23	39.0	3.308
MW-34	6/24/19	9:37	5.50	19.92	6.79	0.47	-30.1	3.426
	11/20/19	15:00	5.50	19.15	6.08	0.59	-52.2	3.549
MW-35	11/21/19	12:11	7.00	18.85	6.21	5.77	60.6	4.046
MW-37	11/20/19	13:47	4.75	18.79	6.82	5.44	61.0	3.872
MW-39	6/26/19	11:16	10.25	19.03	6.67	4.64	101.3	3.715
	1/7/20	11:45	10.0	18.65	6.99	2.65	136	3.619
MW-40	6/25/19	15:37	8.25	19.62	6.73	4.99	84.0	3.718
	1/8/20	10:15	7.75	18.60	6.89	3.62	147.9	3.465
MW-41	6/25/19	16:25	6.5	20.02	6.74	7.14	83.2	3.635
	1/8/20	10:41	6.25	18.90	7.08	7.4	115.0	3.397
MW-42	6/25/19	10:56	10.50	19.05	6.78	4.12	105.7	3.738
	1/8/20	9:50	10.0	18.51	6.88	4.90	121.0	3.615
SVE-28	1/8/20	14:22	3.00	19.72	6.73	2.35	-177.8	2.881
SVE-30	1/8/20	15:40	1.00	19.88	5.04	0.63	-255.5	5.842
RW-1	6/26/19	12:11	16.00	21.91	6.83	0.65	-329.2	3.439
	1/8/20	15:22	28.0	20.38	6.92	0.82	-387.0	1.452

Notes

mg/L - milligrams per liter

mV - millivolts

µs/cm - microsiemens per centimeter

^{o}C - Degrees Celsius

Note: Field parameters are only shown for wells sampled

Prepared by: JIM 2/12/20

Checked by: RAH 2/21/20

Table 3-4. Summary of Historical Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-13	11/17/16	13:05	2.0	22.49	7.20	2.08	-19.2	2.937
	11/16/17	12:10	2.5	21.54	7.15	2.43	-9.2	3.484
	11/12/18	14:30	2.0	18.71	7.03	3.34	-62.5	3.616
MW-14	11/16/16	11:10	4.0	19.82	7.10	1.27	-14.8	2.859
	11/15/17	11:39	3.75	19.26	7.01	4.86	-3.4	3.281
	11/8/18	14:25	4.0	19.10	6.88	3.87	-66.2	3.658
MW-20	11/16/16	13:21	4.75	18.82	7.21	3.81	-20.4	2.964
	5/24/17	14:02	5.25	19.79	6.95	3.54	-10.6	3.679
	11/15/17	13:42	4.0	18.89	7.01	7.88	-3.2	3.555
	6/1/18	9:20	5.0	19.14	7.02	7.25	-14.9	3.800
	11/9/18	10:35	6.50	17.61	6.90	3.20	73.2	3.757
MW-21	11/16/16	9:45	4.25	18.68	7.15	1.98	-17.0	2.528
	11/14/17	15:01	3.0	20.45	7.09	1.37	-6.7	2.988
	11/8/18	11:26	3.0	18.79	6.94	1.54	-139.1	3.135
MW-22	11/16/16	12:30	2.75	19.07	7.15	4.47	-17.2	2.840
	5/24/17	10:35	3.0	19.38	6.90	4.84	-8.5	3.538
	11/15/17	14:11	2.75	18.69	7.03	7.18	-4.1	3.439
	6/1/18	11:05	3.0	19.46	6.91	1.08	-8.8	3.686
	11/9/18	10:58	3.0	18.31	6.98	3.62	79.7	3.654
MW-24D	11/17/16	11:55	55	19.67	7.11	0.10	-15.5	2.818
	11/16/17	13:11	55	19.44	6.82	0.31	4.2	3.425
	11/12/18	13:20	50	17.67	7.07	2.78	-143.0	3.360
MW-26	11/16/16	13:57	6.50	18.73	6.94	3.07	-7.6	2.917
	5/24/17	11:09	6.75	19.03	6.78	0.38	-1.8	3.596
	11/15/17	12:40	6.25	18.87	7.02	5.98	-1.2	3.588
	6/1/18	10:07	6.50	19.22	6.84	4.46	-5.3	3.742
	11/9/18	9:47	7.25	18.35	6.92	3.46	60.9	3.740

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Table 3-4. Summary of Historical Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-27	11/15/16	14:49	4.50	19.69	6.83	1.62	-3.0	2.512
	5/23/17	13:53	3.0	--	--	--	--	--
	11/14/17	13:41	2.75	19.52	6.81	2.25	4.3	3.194
	5/31/18	8:05	2.75	19.69	6.57	3.25	8.8	3.473
	11/6/18	14:45	2.75	19.25	6.72	0.90	-319.5	3.424
MW-29	11/15/16	14:30	2.0	20.13	7.08	1.08	-14.1	2.319
	5/23/17	13:46	2.25	21.35	6.88	0.35	-7.1	2.857
	11/14/17	12:55	2.0	18.99	7.07	3.19	-6.2	2.854
	5/30/18	15:31	1.0	20.49	6.85	1.08	-5.8	3.065
	11/7/18	14:30	3.0	18.74	7.07	7.36	93.1	3.621
MW-32	11/15/16	13:11	3.25	19.79	7.13	1.11	-16.4	2.369
	5/23/17	12:58	3.25	20.27	6.88	1.19	-6.9	2.937
	11/14/17	12:30	3.25	19.75	7.10	2.00	-7.0	2.899
	5/30/18	14:51	3.25	20.87	6.95	2.21	-11.5	3.164
	11/6/18	13:56	3.0	20.14	6.93	2.57	13.7	3.131
MW-34	11/15/16	11:25	5.50	19.48	7.16	0.20	-17.7	2.798
	5/23/17	10:31	5.75	19.67	6.93	0.55	-9.6	3.447
	11/14/17	10:09	5.40	19.18	7.09	0.28	-6.4	3.312
	5/30/18	12:45	5.50	21.75	7.04	0.95	-15.7	3.504
	11/6/18	11:40	5.50	19.94	6.96	0.87	-32.9	3.435
MW-35	11/15/16	12:31	2.50	19.86	7.25	4.39	-21.7	3.037
	5/23/17	11:15	7.50	19.25	7.04	2.88	-15.5	3.754
	11/14/17	11:42	7.30	19.30	7.19	6.35	-10.4	3.672
	5/30/18	13:41	7.25	19.70	7.12	5.86	-19.7	3.924
	11/6/18	12:45	7.0	19.30	7.02	6.18	8.9	3.857
MW-37	11/15/16	10:29	5.0	18.90	7.18	2.13	-18.6	2.917
	5/23/17	9:42	5.0	19.09	6.95	3.44	-10.5	3.626
	11/14/17	9:23	5.0	18.82	7.06	3.30	-5.4	3.515
	11/6/18	10:50	5.0	19.13	6.97	4.52	79.3	3.693

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Table 3-4. Summary of Historical Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-39	11/17/16	10:54	10.0	18.83	7.07	5.33	-13.7	2.905
	6/16/17	11:15	12.0	19.04	6.79	5.11	-10.7	3.662
	11/16/17	11:05	9.25	18.76	7.01	5.22	-3.41	3.500
	6/4/18	13:45	10.0	19.11	6.92	3.64	-9.4	3.716
	11/9/18	15:55	10.0	18.60	6.91	2.79	121.0	3.695
MW-40	11/17/16	9:05	8.0	18.72	7.02	3.99	-11.7	2.864
	6/16/17	10:30	8.25	18.98	6.66	5.45	-4.1	3.636
	11/16/17	8:45	7.75	18.65	6.93	4.23	0.0	3.465
	6/4/18	10:45	8.0	19.06	7.03	6.58	-15.3	3.710
	11/9/18	14:40	7.75	18.63	6.89	2.65	114.8	3.670
MW-41	11/17/16	10:20	6.50	19.25	7.19	6.37	-16.2	2.805
	11/16/17	9:36	6.25	18.92	7.03	6.74	-4.1	3.396
	6/4/18	13:02	6.50	19.72	6.99	7.03	-13.2	3.621
	11/9/18	15:28	6.25	18.72	6.92	3.16	114.3	3.601
MW-42	11/17/16	8:30	10.25	18.46	7.02	4.07	-11.2	2.892
	6/16/17	10:35	10.0	18.62	6.55	5.11	1.2	3.672
	11/16/17	10:18	10.0	18.49	6.99	4.22	-2.6	3.514
	6/4/18	10:05	10.0	18.82	6.98	5.64	-12.8	3.745
	11/9/18	14:18	9.75	18.28	6.92	2.72	114.9	3.710
SVE-28	11/12/18	10:35	3.03	--	--	--	--	--
SVE-30	11/12/18	9:45	0.69	--	--	--	--	--
SVE-31	11/12/18	10:15	1.39	--	--	--	--	--
RW-1	11/12/18	15:05	18.0	--	--	--	--	--

Notes

mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
-- No field parameters gathered
^{o}C - Degrees Celsius
Note: Field parameters are only shown for wells sampled

Prepared by: JIM 02/12/20
Checked by: RAH 2/21/20

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
MW-1B	05/24/17	**380**	< 20	< 20	**1,600**	NA	NA	NA
MW-10	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-11	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-12	05/24/17	**1,100**	**1,400**	150	**2,300**	NA	NA	NA
MW-13	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/24/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/16/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	01/08/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-14	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/15/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/08/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-16	10/21/12	**1,000**	< 50	270	**2,300**	NA	NA	NA
	04/17/13	**650**	< 50	210	**2,400**	NA	NA	NA
	11/18/13	**320**	50	210	**1,900**	NA	NA	NA
	05/04/14	**400**	< 10	310	**2,300**	NA	NA	NA
	12/02/14	**610**	16	180	**2,100**	NA	NA	NA
	04/24/15	**260**	11	230	**2,500**	NA	NA	NA
	11/05/15	**Not Sampled - PSH in well**						
	05/05/16*	**94**	< 10	120	**2,300**	NA	NA	NA
	11/16/16*	**90**	< 20	46	**1,700**	NA	NA	NA
	5/23/17*	**110**	< 10	66	**1,500**	NA	NA	NA
	11/15/17*	**87**	12	95	**1,500**	NA	NA	NA
	5/31/2018*	**320**	< 10	220	**1,700**	NA	NA	NA
	11/08/18	**Not Sampled - PSH in well**						
	06/24/19	**Not Sampled - PSH in well**						
	01/06/20	**Not Sampled - PSH in well**						
MW-17	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-20	03/12/09	< 1.0	< 1.0	< 1.0	< 1.5	14	**35**	< 1.0
	10/07/09	2.8	< 1.0	< 1.0	< 1.5	7.2	**13**	< 1.0
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	13	**28**	< 1.0
	09/24/10	< 1.0	< 1.0	< 1.0	< 1.5	4.6	**9.7**	< 1.0
	04/19/11	< 1.0	< 1.0	< 1.0	< 1.5	14	**22**	< 1.0
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	5.1	6.4	< 1.0
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	6.4	**8.6**	--
	10/19/12	< 1.0	< 1.0	< 1.0	< 1.5	2.9	**8.1**	--
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	3.2	4.5	< 1.0
	11/18/13	< 1.0	< 1.0	< 1.0	< 1.5	1.8	1.6	< 1.0
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	4.8	3.9	< 1.0

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	8.0	6.7	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	12.0	**8.0**	< 1.0
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	16.0	**8.6**	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	15.0	5.6	< 1.0
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	12.0	6.0	< 1.0
	05/24/17	< 1.0	< 1.0	< 1.0	< 1.5	9.5	4.6	< 1.0
	11/15/17	< 1.0	< 1.0	< 1.0	< 1.5	5.5	**7.3**	< 1.0
	06/01/18	< 1.0	< 1.0	< 1.0	< 1.5	6.4	4.7	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	5.6	**11**	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	7.8	3.4	< 1.0
	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	7.4	2.5	< 1.0
MW-21	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/25/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/08/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	06/24/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/26/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-22	03/12/09	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	10/07/09	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0
	09/23/10	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	1.6	< 1.0
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	--
	10/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	--
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.2	< 1.0
	11/18/13	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 2.0	< 2.0
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.5	< 1.0
	12/02/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.5	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.5	< 1.0
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.2	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.3	< 1.0
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.6	< 1.0
	05/24/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	3.0	< 1.0
	11/15/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.6	< 1.0
	06/01/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.7	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.8	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.0	< 1.0
	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
MW-23D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	1.6	8.1	2.8	10	NA	NA	NA
	12/14/12	< 1.0	1.4	< 1.0	< 2.0	NA	NA	NA
	01/21/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
MW-24D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	2.1	1.0	3.5	NA	NA	NA
	12/14/12	**9.6**	17	4.9	14	NA	NA	NA
	01/21/13	< 1.0	< 1.0	3.3	6.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/26/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/16/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	01/07/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-25D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	1.2	< 1.0	2.2	NA	NA	NA
	12/14/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/21/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/17/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
MW-26	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	4.2	**43**	< 1.0
	10/07/09	< 1.0	< 1.0	< 1.0	< 1.5	5.5	**42**	< 1.0
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	5.5	**60**	< 1.0
	09/24/10	< 1.0	< 1.0	< 1.0	< 1.5	6.2	**50**	< 1.0
	04/19/11	< 1.0	< 1.0	< 1.0	< 1.5	5.9	**60**	< 1.0
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	7.8	**57**	< 1.0
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	6.7	**53**	--
	10/19/12	< 1.0	< 1.0	< 1.0	< 1.5	5.6	**54**	--
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	6.2	**53**	< 1.0
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	6.0	**45**	< 1.0
	05/04/14	< 1.0	< 1.0	< 1.0	< 3.0	10.0	**65**	< 1.0
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	7.6	**52**	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	6.9	**50**	< 1.0
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	11.0	**71**	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	11.0	**63**	< 1.0
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	11.0	**58**	< 1.0
	05/24/17	< 1.0	< 1.0	< 1.0	< 1.5	9.1	**58**	< 1.0
	11/15/17	< 1.0	< 1.0	< 1.0	< 1.5	8.3	**44**	< 1.0
	06/01/18	< 1.0	< 1.0	< 1.0	< 1.5	8.4	**46**	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	9.3	**43**	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	7.8	**42**	< 1.0
	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	9.1	**45**	< 1.0

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Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
MW-27	05/14/14	< 20.0	< 20.0	36	72	NA	NA	NA
	12/29/14	< 100	< 100	< 100	< 300	NA	NA	NA
	04/24/15*	< 10	< 10	< 10	< 30	NA	NA	NA
	11/05/15	< 10	< 10	19	54	NA	NA	NA
	05/02/16	< 10	< 10	< 10	< 30	NA	NA	NA
	11/15/16	< 5.0	< 5.0	< 5.0	< 7.5	NA	NA	NA
	05/23/17	< 5.0	< 5.0	< 5.0	< 7.5	NA	NA	NA
	11/14/17	**82**	< 25	< 25	91	NA	NA	NA
	05/31/18	< 2.0	< 2.0	< 2.0	< 3.0	NA	NA	NA
	11/06/18	< 2.0	6.1	< 2.0	< 4.0	NA	NA	NA
	06/29/19	< 2.0	<2.0	< 2.0	< 3.0	NA	NA	NA
	11/26/19	< 2.0	< 2.0	< 2.0	< 3.0	NA	NA	NA
MW-29	03/11/09	4.1	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	**8.4**	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	1.4	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	1.3	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	05/02/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	1.1	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/07/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	06/24/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/25/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-32	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	1.8	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/29/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/25/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-34	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	**20**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	**210**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	**210**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	**140**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	**60**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	**7.2**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	**5.0**	< 1.0	< 1.0	< 3.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/27/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	06/24/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/20/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-35	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/29/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/21/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-37	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	04/27/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/20/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-39	08/16/13	2.8	< 1.0	< 1.0	< 1.5	2.0	**19**	**--**
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	1.6	**15**	< 1.0
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	3.0	**27**	
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	2.5	**22**	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	3.1	**27**	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	2.9	**24**	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	3.1	**22**	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	3.3	**29**	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	3.8	**31**	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	3.3	**23**	< 1.0
	11/06/18	< 1.0	< 1.0	< 1.0	< 1.5	3.8	**25**	< 1.0
	06/26/19	< 1.0	< 1.0	< 1.0	< 1.5	3.1	**18**	< 1.0
	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	3.7	**24**	< 1.0
MW-40	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	--
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
MW-41	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	<1.0
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/24/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.1	< 1.0
	05/19/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.4	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.4	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.3	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0
	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0
MW-42	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	--
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	05/19/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.1	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.0	< 1.0
	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.4	< 1.0
MPE-13	05/14/14*	**5.2**	< 2.0	10	35	NA	NA	NA
	05/05/16	**770**	240	70	**740**	NA	NA	NA
	11/17/16	1.3	< 2.0	< 2.0	< 3.0	NA	NA	NA
	05/24/17	< 5.0	< 5.0	< 5.0	< 7.5	NA	NA	NA
MPE-27	11/16/16	**760**	650	60	460	NA	NA	NA
	11/16/17*	**3,900**	**7,400**	390	**3,400**	NA	NA	NA
	6/4/2018*	**4,400**	**9,400**	510	**4,100**	NA	NA	NA
MPE-31	05/14/14*	**130**	< 20.0	370	460	NA	NA	NA
	12/29/14	< 100	150	< 100	< 300	NA	NA	NA
	04/24/15*	**260**	46	200	440	NA	NA	NA
	11/06/15	**120**	15	230	340	NA	NA	NA
	05/05/16*	**140**	16	250	400	NA	NA	NA
	11/16/16	**7.8**	11	< 2.0	28	NA	NA	NA
MPE-39	12/29/14	**4,700**	**1,400**	240	**1,900**	NA	NA	NA
	04/24/15	**3,300**	**3,300**	430	**2,700**	NA	NA	NA
	11/06/15	**1,800**	**4,500**	280	**2,900**	NA	NA	NA
	05/05/16	**620**	570	70	**1,500**	NA	NA	NA
	11/17/16*	**160**	130	< 20	160	NA	NA	NA
	6/16/17*	**2,600**	**1,500**	120	**1,100**	NA	NA	NA
	6/4/2018*	**1,600**	**1,300**	90	**1,300**	NA	NA	NA
SVE-28	11/12/18	**14**	<1..0	<1.0	<1.5	NA	NA	NA
	06/26/19	1.5	<1.0	<1.0	<1.5	2.2	<1.0	<1.0
	01/08/20	1.5	<1.0	<1.0	<1.5	2.2	<1.0	<1.0
SVE-30	11/12/18	**15**	<5.0	41	<7.5	NA	NA	NA
	06/26/19	**10**	<5.0	24	<7.5	**30**	<5.0	<5.0
	01/08/20	**8.9**	<5.0	29	<7.5	**32**	<5.0	<5.0
SVE-31	11/12/18	<1	<1.0	<1.0	<1.5	NA	NA	NA
RW-1	11/12/18	**32**	<1.0	1.4	<1.5	NA	NA	NA
	06/26/19	**51**	<1.0	1.4	<1.5	12	<1.0	<1.0
	01/08/20	**26**	<1.0	1.5	<1.5	4.3	<1.0	<1.0

Notes: Prepared by: JIM 2/12/20

Bold - indicates that the analytical result exceeds the applicable regulatory limits. Checked by: RAH 2/21/20

* - Phase separated hydrocarbons (PSH) present in well. Sample collected below PSH.

-- Data not available.

(a) Analyte present in method blank

(b) Total Naphthalene = Naphthalene + 1-Methylnapthalene + 2-Methylnapthalene

Historical data before 2009 is presented in previous reports

Results reported in micrograms per liter (µg/L)

NA - Not analyzed; constituent is not part of the sampling plan

NMWQCC - New Mexico Water Quality Control Commission Standard

USEPA MCL - United States Environmental Protection Agency's Maximum Concentration Limit

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Table 3-5a. Summary of Groundwater Analytical Results - Other Constituents Detected
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Chloroethane	Isopropyl benzene	n-Propylbenzene	1,2,4-Trichlorobenzene	Napthalene	cis-1,2-Dichloroethene	Acetone
NMWQCC Standard:		--	--	--	70	1.43*	70	--
USEPA MCL:		--	--	--	70	--	70	--
MW-42	06/25/19	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	5.3
	01/08/20	<3.0	<1.0	<1.0	<1.0	<2.0	<1.0	<10
SVE-30	06/26/19	11	<5.0	<5.0	5.6	<10	<5.0	<50
	01/08/20	14	7.7	6.4	<5.0	<10	<5.0	<50
RW-1	06/26/19	<2.0	<1.0	<1.0	<1.0	4.4	5.2	<1.0
	01/08/20	<2.0	<1.0	<1.0	<1.0	<2.0	1.0	<10

Notes:

Prepared by: JIM 04/17/20
Checked by: SD 04/22/20

Results only shown for other detected constituents in wells. All other constiutents for wells not shown are below laboratory detection limits.

-- data not available or established

Results reported in micrograms per liter (µg/L)

NMWQCC - New Mexico Water Quality Control Commission Standard

USEPA MCL - United States Environmental Protection Agency's Maximum Concentration Limit

* - Per Stipulated Order, Screening level for tap water listed in Table A-1 fo the Februrary 2012 NMED Risk Assessment Guidance for Site Investigation and Remediation as target cleanup if WQCC standard nor MCL has been established.

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Table 3-6. Summary of Well Completion Details
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
MW-1B	04/21/93	65.5	64.65	Flush Mount	2	55-65	53
MW-2	04/21/93	65	61.61	Flush Mount	2	55-65	53
MW-3	04/26/93	72.5	na	Flush Mount	2	60-70	58
MW-5	04/28/93	70	69.35	Flush Mount	2	60-70	58
RW-1	06/13/93	42.5	41.47	Flush Mount	4	36.8 - 41.7	34.75
MW-6	12/01/94	79	na	Flush Mount	2	59.9-74.9	57.1
MW-7	08/22/95	70.5	na	Flush Mount	2	50-70	48.1
MW-8	08/16/95	76.8	73.80	Flush Mount	2	59-74	57.2
MW-9	08/18/95	70	69.75	Flush Mount	2	50-70	47.9
MW-10	09/10/96	74.5	72.15	Flush Mount	2	57-72	55.3
MW-11	09/16/96	72	68.30	Flush Mount	2	54-69	51.5
MW-12	09/11/96	64	na	Flush Mount	2	44-64	42
MW-13	09/13/96	72	na	Flush Mount	2	57-72	55
MW-14	09/10/96	64.5	na	Flush Mount	2	49.5-64.5	48
MW-15	09/20/96	68.5	na	Flush Mount	2	38.5-68.5	37
MW-16	09/19/96	71.4	71.46	Flush Mount	2	46.4-71.4	45.5
MW-17	09/21/96	70	na	Flush Mount	2	53-68	50.9
MW-18	09/25/96	71	na	Flush Mount	2	54-69	51.6
MW-19	09/26/96	69.5	na	Flush Mount	2	54.5-69.5	51
MW-20	08/04/97	64	na	Flush Mount	2	46.8-61.8	43.9
MW-21	08/06/97	75	na	Flush Mount	2	54-74	51.7
MW-22	08/04/97	68	na	Flush Mount	2	50-65	49
MW-26	09/01/98	65	na	Flush Mount	2	43-63	41
MW-27	09/02/98	75	na	Flush Mount	2	55-75	53
MW-28	11/14/00	75	74.81	Flush Mount	2	60-75	58
MW-29	11/18/00	75	74.45	Flush Mount	2	60-75	58
MW-30	11/16/00	75	74.70	Flush Mount	2	60-75	58
MW-31	09/21/01	75	74.55	Flush Mount	2	60-75	58
MW-32	09/23/01	75	74.20	Flush Mount	2	60-75	58
MW-33	09/22/01	75	74.60	Flush Mount	2	60-75	58
MW-34	01/06/03	79	75.75	Flush Mount	2	49-79	46
MW-35	01/07/03	79	76.71	Flush Mount	2	49-79	46
MW-36	09/29/03	75	74.35	Flush Mount	2	55-75	53
MW-37	09/29/03	70	69.61	Flush Mount	2	50-70	48
MW-38	09/30/03	68	67.76	Flush Mount	2	48-68	46
MW-39	08/06/13	70	70.00	Flush Mount	2	50-70	48
MW-40	08/05/13	70	70.25	Flush Mount	2	50-70	48
MW-41	08/05/13	70	70.20	Flush Mount	2	50-70	48
MW-42	08/06/13	75	75.93	Flush Mount	2	55-75	51
MW-23D	07/29/97	194	na	Flush Mount	4	167-187	164
MW-24D	09/10/98	180	na	Flush Mount	4	146-176	143
MW-25D	09/09/98	150	na	Flush Mount	4	119-149	117
SVE-1A	09/21/96	30	29.65	Flush Mount	2	20-30	19
SVE-2A	09/20/96	30	29.83	Flush Mount	2	20-30	17.5
SVE-3	09/16/96	62.3	61.90	Flush Mount	2	32.0-62.3	29.5
SVE-22	11/07/02	35	33.20	Flush Mount	2	25-35	23

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Table 3-6. Summary of Well Completion Details
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
SVE-23	11/07/02	39	36.70	Flush Mount	2	25-35	22
SVE-24	11/13/02	30	28.85	Flush Mount	2	20-30	18
SVE-25	11/04/02	34	53.30	Flush Mount	2	24-34	21.6
SVE-26	11/05/02	35	32.45	Flush Mount	2	24-34	22
SVE-27	11/01/02	35	33.90	Flush Mount	2	20-35	18
SVE-28	10/29/02	35	36.00	Flush Mount	2	25-35	23
SVE-30	10/25/02	45	44.00	Flush Mount	2	20-45	18
SVE-31	10/28/02	35	33.95	Flush Mount	2	25-35	23
MPE-1	12/06/02	79	75.60	Flush Mount	4	54-74	49
MPE-2	12/24/02	79	71.75	Flush Mount	4	54-79	51
MPE-3	12/21/02	79	75.95	Flush Mount	4	54-79	51
MPE-4	12/19/12	79	78.30	Flush Mount	4	54-79	51
MPE-5	12/16/02	79	77.70	Flush Mount	4	59-79	56
MPE-6	12/17/02	79	75.00	Flush Mount	4	54-79	51
MPE-7	12/13/02	79	78.41	Flush Mount	4	54-74	51
MPE-8	12/14/02	79	77.55	Flush Mount	4	59-79	50
MPE-9	12/18/02	79	73.60	Flush Mount	4	54-74	51
MPE-10	12/09/02	79	75.30	Flush Mount	4	54-74	50
MPE-11	12/07/02	79	79.05	Flush Mount	4	54-74	50
MPE-12	12/06/02	79	75.40	Flush Mount	4	54-74	51
MPE-13	12/03/02	79	77.60	Flush Mount	4	54-74	50.7
MPE-14	11/25/02	79	76.80	Flush Mount	4	54-74	51
MPE-15	11/22/02	79	79.25	Flush Mount	4	59-74	54
MPE-16	11/27/02	79	78.20	Flush Mount	4	54-74	49
MPE-17	11/20/02	75	76.10	Flush Mount	4	55-70	49
MPE-18	11/21/02	79	78.68	Flush Mount	4	58-73	55
MPE-19	11/26/02	79	74.12	Flush Mount	4	49-74	46
MPE-20	11/20/02	78	77.60	Flush Mount	4	48-73	42
MPE-21	11/19/02	69	68.90	Flush Mount	4	44-64	41.9
MPE-22	11/07/02	80	77.52	Flush Mount	4	55-80	52
MPE-23	11/06/02	80	78.41	Flush Mount	4	55-80	52
MPE-24	11/13/02	74	73.77	Flush Mount	4	49-74	46
MPE-25	11/04/02	80	77.45	Flush Mount	4	54-79	51
MPE-26	11/06/02	84	77.35	Flush Mount	4	54-84	49
MPE-27	10/31/02	79	79.40	Flush Mount	4	54-79	48
MPE-28	10/31/02	82	77.67	Flush Mount	4	46-76	43
MPE-29	11/02/02	79	78.35	Flush Mount	4	54-79	51
MPE-30	10/25/02	80	77.96	Flush Mount	4	59-79	56
MPE-31	10/28/02	80	78.80	Flush Mount	4	59-79	58
MPE-32	11/19/02	79	78.30	Flush Mount	4	44-74	39.2
MPE-33	11/18/02	79	78.00	Flush Mount	4	44-79	41.6
MPE-34	10/24/02	80	77.52	Flush Mount	4	59-79	56
MPE-35	11/15/02	79	79.21	Flush Mount	4	54-74	51
MPE-36	11/14/02	74	71.31	Flush Mount	4	44-74	41
MPE-37	11/15/02	74	73.60	Flush Mount	4	44-74	41
MPE-38	08/07/13	75	75.00	Flush Mount	4	55-75	53

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Table 3-6. Summary of Well Completion Details
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
MPE-39	08/08/13	75	74.30	Flush Mount	4	55-75	53
MPE-40	08/08/13	75	72.60	Flush Mount	4	55-75	53
MPE-41	08/07/13	75	74.95	Flush Mount	4	55-75	53

Note:
Light blue denote well plugged and abandoned (P&A) in August 2013
ft bgs - feet below ground surface
TOC - top of casing
in. - inches
na - not applicable
Pipeline through Circuit A is buried at a depth of approximately 5 feet and backfilled with native materials.

Prepared by: JIM 2/12/20
Checked by: RAH 2/25/20

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Table 4-1. SVE System Mass Removal Calculations for Total Volatile Organic Compounds Transwestern Compressor Station No. 9 - Roswell, NM

	West Thermal Oxidizer Unit				East Thermal Oxidizer Unit				Total				
Date	Total VOC (ug/m^3)	Flow Rate Q(scfm)	Mass Removal Rate M(lb/hr)	Mass Removal Rate M(tons/yr)	Total VOC Conc (ug/m^3)	Flow Rate Q(scfm)	Mass Removal Rate M(lb/hr)	Mass Removal Rate M(tons/yr)	Flow Rate Q(scfm)	Mass Removal Rate M(lb/hr)	Mass Removal Rate M(tons/yr)	Approximate 2019 Mass Removal Rate (gal/yr)	Approximate 2019 Mass Removal Rate (lbs/yr)
04/02/19	555,266	160	0.33	1.458	153,755	160	0.09	0.404	312	0.4	1.86	587	3,723
06/14/19	1,007,314	160	0.60	2.644	261,954	160	0.16	0.688	320	0.8	3.33	1,051	6,664
09/16/19	1,103,209	160	0.66	2.896	479,132	160	0.29	1.258	320	0.9	4.15	1,311	8,308
01/13/20	780,027	160	0.47	2.048	393,362	160	0.24	1.033	320	0.7	3.08	972	6,161
										General Average:	3.11	980	6,214
										Total Potential Criteria Pollutant Emissions*	2.89	910	5,767

*Actual Average at 93% Runtime

Notes:

1) Specific gravity of VOC is 0.76 based on Fingerprinting Analytical performed by Core Laboratories in October 2012.

VOC = Volatile Organic Compounds
TPY = Tons per year
ug/m^3 = micrograms per cubic meter
scfm = standard cubic feet per minute
lb/hr = pound per hour
gal/yr = gallons per year

Prepared by: JIM 02/12/20
Checked by: RAH 2/25/20

Table 4-2. Summary of Treated Water Irrigation Rates
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
12/31/03										**2003-2008**
11/18/08					1,241,140					1,241,140
05/01/09	1200	CB	964,480	15,180	15,180	164.0	164	93	0.06	
06/04/09	1200	CB	1,030,720	66,240	81,420	34.0	198	1,948	1.35	
07/04/09	1200	CB	1,074,550	43,830	125,250	30.0	228	1,461	1.01	
08/04/09	1200	CB	1,112,060	37,510	162,760	31.0	259	1,210	0.84	
09/01/09	1200	CB	1,158,960	46,900	209,660	28.0	287	1,675	1.16	
10/06/09	1200	CB	1,176,620	17,660	227,320	35.0	322	505	0.35	
11/05/09	1200	CB	1,196,570	19,950	247,270	30.0	352	665	0.46	**2009**
11/23/09	1200	CB	1,223,480	26,910	274,180	18.0	370	1,495	1.04	274,180
06/20/10	1200	CB	1,223,490	10	274,190	209.0	579	0	0.00	
07/07/10	1200	CB	1,232,290	8,800	282,990	17.0	596	518	0.36	
08/05/10	1200	CB	1,248,520	16,230	299,220	29.0	625	560	0.39	
09/06/10	1200	CB	1,274,270	25,750	324,970	32.0	657	805	0.56	
09/14/10	1200	CB	1,279,310	5,040	330,010	8.0	665	630	0.44	
09/28/10	1200	CB	1,288,380	9,070	339,080	14.0	679	648	0.45	
11/05/10	1200	CB	1,288,390	10	339,090	38.0	717	0	0.00	**2010**
11/10/10	1200	CB	1,292,380	3,990	343,080	5.0	722	798	0.55	68,900
06/28/11	1200	CB	1,292,590	210	343,290	230.0	952	1	0.00	
07/13/11	1200	CB	1,297,670	5,080	348,370	15.0	967	339	0.24	
08/01/11	1200	CB	1,304,610	6,940	355,310	19.0	986	365	0.25	
09/03/11	1200	CB	1,317,270	12,660	367,970	33.0	1,019	384	0.27	
10/04/11	1200	CB	1,336,700	19,430	387,400	31.0	1,050	627	0.44	
11/01/11	1200	CB	1,357,820	21,120	408,520	28.0	1,078	754	0.52	**2011**
11/30/11	1200	CB	1,390,930	33,110	441,630	29.0	1,107	1,142	0.79	98,550
04/20/12	1200	CB	1,390,930	0	441,630	142.0	1,249	0	0.00	
05/04/12	1200	CB	1,416,840	25,910	467,540	14.0	1,263	1,851	1.29	
06/06/12	1200	CB	1,450,860	34,020	501,560	33.0	1,296	1,031	0.72	
07/04/12	1200	CB	1,464,990	14,130	515,690	28.0	1,324	505	0.35	
08/06/12	1200	CB	1,482,850	17,860	533,550	33.0	1,357	541	0.38	
09/05/12	1200	CB	1,502,280	19,430	552,980	30.0	1,387	648	0.45	
10/03/12	1200	CB	1,520,950	18,670	571,650	28.0	1,415	667	0.46	
11/05/12	1200	CB	1,537,050	16,100	587,750	33.0	1,448	488	0.34	**2012**
11/30/12	1200	CB	1,541,170	4,120	591,870	25.0	1,473	165	0.11	150,240

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Table 4-2. Summary of Treated Water Irrigation Rates
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
04/19/13	1200	CB	1,541,170	0	591,870	140.0	1,613	0	0.00	
04/30/13	1200	CB	1,553,090	11,920	603,790	11.0	1,624	1,084	0.75	
05/31/13	1200	CB	1,577,610	24,520	628,310	31.0	1,655	791	0.55	
06/30/13	1200	CB	1,614,920	37,310	665,620	30.0	1,685	1,244	0.86	**2013**
07/24/13	1200	CB	1,641,540	26,620	692,240	24.0	1,709	1,109	0.77	100,370
07/24/14	800	MB	1,641,550	10	692,250	364.8	2,074	0	0.00	
08/01/14	830	MB	1,646,660	5,110	697,360	8.0	2,082	1,143	0.79	
09/01/14	915	MB	1,673,410	26,750	724,110	31.0	2,113	821	0.57	
10/01/14	835	MB	1,693,890	20,480	744,590	30.0	2,143	1,887	1.31	
11/01/14	830	MB	1,744,480	50,590	795,180	31.0	2,174	1,632	0.99	**2014**
11/07/14	830	MB	1,753,390	8,910	804,090	6.0	2,180	1,473	1.02	111,840
06/25/15	630	CB	1,753,390	0	804,090	229.9	2,410	0	0.00	
06/26/15	900	CB	40,570	0	804,090	1.1	2,411	0	0.00	***New Meter**
07/01/15	-	CB	46,250	5,680	809,770	5.0	2,416	1,136	0.79	
08/06/15	-	CB	70,570	24,320	834,090	36.0	2,452	676	0.47	
10/03/15	745	CB	83,130	12,560	846,650	58.0	2,510	217	0.15	
11/04/15	-	CB	92,780	9,650	856,300	32.0	2,542	302	0.21	**2015**
11/30/15	-	CB	104,710	11,930	868,230	26.0	2,568	459	0.32	64,140
02/20/16	645	MB/CB	104,710	0	868,230	82.0	2,650	0	0.00	
03/14/16	830	MB/CB	109,930	5,220	873,450	23.1	2,591	226	0.16	
05/24/16	1120	MB/CB	127,415	22,705	890,935	71.1	2,721	319	0.22	
06/01/16	830	MB/CB	130,750	3,335	894,270	7.9	2,729	423	0.29	
07/01/16	600	MB/CB	150,680	19,930	914,200	29.9	2,759	666	0.46	
08/01/16	800	MB/CB	175,520	24,840	939,040	31.1	2,790	799	0.55	
09/01/16	700	MB/CB	192,820	17,300	956,340	31.0	2,821	559	0.39	
10/01/16	630	MB/CB	210,420	17,600	973,940	30.0	2,851	587	0.41	
11/01/16	700	MB/CB	232,570	22,150	996,090	31.0	2,882	714	0.50	**2016**
11/28/16	700	MB/CB	242,360	9,790	1,005,880	27.0	2,909	363	0.25	137,650
07/05/17	730	MB/CB	242,360	0	1,005,880	219.0	3,128	0	0.00	
07/06/17	630	MB/CB	242,940	580	1,006,460	0.96	3,129	605	0.42	
08/08/17	830	MB/CB	269,770	26,830	1,033,290	33.1	3,162	811	0.56	
08/21/17	715	MB/CB	269,770	0	1,033,290	13.0	3,175	0	0.00	
08/23/17	1100	MB/CB	270,910	1,140	1,034,430	2.2	3,177	528	0.37	

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Table 4-2. Summary of Treated Water Irrigation Rates
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
09/30/17	700	MB/CB	298,720	27,810	1,062,240	37.8	3,215	735	0.51	
10/31/17	700	MB/CB	320,550	21,830	1,084,070	31.0	3,246	704	0.49	
11/10/17	630	MB/CB	327,480	6,930	1,091,000	10.0	3,256	695	0.48	
11/16/17	700	MB/CB	327,480	0	1,091,000	6.0	3,262	0	0.00	
11/30/17	830	MB/CB	332,720	5,240	1,096,240	14.1	3,276	373	0.26	**2017**
12/01/17	1300	MB/CB	332,910	190	1,096,430	1.2	3,277	159	0.11	90,550
04/24/18	715	MB/CB	332,910	0	1,096,430	143.8	3,421	0	0.00	
05/13/18	700	MB/CB	340,100	7,190	1,103,620	18.99	3,440	379	0.26	
06/11/18	700	MB/CB	340,100	0	1,103,620	29.0	3,469	0	0.00	
06/25/18	1100	MB/CB	342,410	2,310	1,105,930	14.2	3,483	163	0.11	
07/23/18	545	MB/CB	350,000	7,590	1,113,520	27.8	3,511	273	0.19	
08/06/18	600	MB/CB	354,640	4,640	1,118,160	14.0	3,525	331	0.23	
09/24/18	615	MB/CB	363,300	8,660	1,126,820	49.0	3,574	177	0.12	**2018**
10/22/18	715	MB/CB	374,330	11,030	1,137,850	28.0	3,602	393	0.27	41,420
01/01/19	800	MB/CB	374,330	0	1,137,850	71.0	3,673	0	0.00	
06/30/19	715	MB/CB	374,790	460	1,138,310	180.0	3,853	3	0.00	
07/25/19	700	MB/CB	375,480	690	1,139,000	24.99	3,878	28	0.02	
08/06/19	700	MB/CB	376,080	600	1,139,600	12.0	3,890	50	0.03	
08/20/19	1100	MB/CB	377,060	980	1,140,580	14.2	3,904	69	0.05	
09/05/19	545	MB/CB	383,000	5,940	1,146,520	15.8	3,920	377	0.26	
10/07/19	600	MB/CB	394,050	11,050	1,157,570	32.0	3,952	345	0.24	
10/16/19	615	MB/CB	394,680	630	1,158,200	9.0	3,961	70	0.05	**2019**
10/23/19	715	MB/CB	398,410	3,730	1,161,930	7.0	3,968	530	0.37	24,080

NOTES:

Prepared by: JIM 2/12/20
Checked by: RAH 2/25/20

Irrigated Volume (gallons) = Difference between prior meter reading and current meter reading (gallons)
Cummulative Irrigated Volume (gallons) = Cummulative sum of Irrigated Volume (gallons)
Elapsed Time (days) = Calculated number of days from the prior date and time
Cummulative Elapsed Time (days) = Cummulative sum of Elapsed Time (days)
Average Recovery Rate (GPD) = Irrigated Volume (gallons) / Elapsed Time (days)
Average Recovery Rate (GPM) = Average Recovery Rate (GPD) / 24 (hours/day) / 60 (minutes/hour)
Historical data before 2009 is presented in previous reports

Table 4-3. Groundwater Treatment System
Mass Removal Calculations for Total BTEX
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Water Totalizer Meter Reading (gals)	Water Volume (gals)	Elapsed Time (days)	Flow Rate (gals/day)	Total BTEX (ug/L)	Mass Removal Rate (lbs/day)	Mass Removed (lbs)	Mass Removed (equivalent gals)
05/01/09	964,480	NA	NA	NA	NA	NA	NA	NA
05/25/09	1,003,890	39,410	24	1,642	4,339	0.0595	1.4	0.225
06/22/09	1,064,810	60,920	28	2,176	9,810	0.1782	5.0	0.788
07/21/09	1,107,950	43,140	29	1,488	9,910	0.1231	3.6	0.564
08/24/09	1,145,780	37,830	34	1,113	9,400	0.0873	3.0	0.469
09/28/09	1,165,680	19,900	35	569	6,230	0.0296	1.0	0.164
10/29/09	1,180,920	15,240	31	492	10,080	0.0414	1.3	0.203
11/18/09	1,214,350	33,430	20	1,672	6,840	0.0955	1.9	0.302
06/20/10	1,223,490	NA	NA	NA	NA	NA	NA	NA
06/30/10	1,227,190	3,700	10	370	7,120	0.0220	0.2	0.035
07/31/10	1,248,140	20,950	31	676	5,340	0.0301	0.9	0.148
08/30/10	1,265,630	17,490	30	583	6,350	0.0309	0.9	0.147
11/10/10	1,292,380	26,750	72	372	8,260	0.0256	1.8	0.291
08/01/11	1,304,610	NA	NA	NA	NA	NA	NA	NA
08/10/11	1,312,240	7,630	9	848	4,400	0.0311	0.3	0.044
10/09/11	1,344,310	32,070	60	535	10,540	0.0470	2.8	0.446
11/03/11	1,357,820	13,510	25	540	10,540	0.0476	1.2	0.188
04/20/12	1,390,930	NA	NA	NA	NA	NA	NA	NA
04/30/12	1,413,930	23,000	10	2,300	8,800	0.1690	1.7	0.267
06/05/12	1,450,860	36,930	36	1,026	8,920	0.0764	2.8	0.435
06/28/12	1,459,530	8,670	23	377	10,050	0.0316	0.7	0.115
07/25/12	1,479,740	20,210	27	749	10,460	0.0654	1.8	0.279
08/15/12	1,486,280	6,540	21	311	8,970	0.0233	0.5	0.077
09/23/12	1,513,290	27,010	39	693	8,870	0.0513	2.0	0.316
10/25/12	1,524,400	11,110	32	347	10,480	0.0304	1.0	0.154
11/28/12	1,541,110	16,710	34	491	8,530	0.0350	1.2	0.188
04/30/13	1,553,090	NA	NA	NA	NA	NA	NA	NA
05/16/13	1,576,010	22,920	16	1,433	10,560	0.1263	2.0	0.319
06/17/13	1,614,920	38,910	32	1,216	9,760	0.0991	3.2	0.501
07/17/13	1,641,540	26,620	30	887	11,170	0.0828	2.5	0.392
07/24/14	1,641,550	NA	NA	NA	NA	NA	NA	NA
07/31/14	1,645,550	4,000	7	571	4,270	0.0204	0.1	0.023
08/25/14	1,667,720	22,170	25	887	4,410	0.0327	0.8	0.129
09/17/14	1,683,180	15,460	23	672	7,280	0.0409	0.9	0.148
10/15/14	1,714,440	31,260	28	1,116	8,500	0.0792	2.2	0.351
07/01/15	46,250	NA	NA	NA	NA	NA	NA	NA
07/15/15	56,930	10,680	14	763	7,360	0.0469	0.7	0.104
10/27/15	91,500	34,570	104	332	4,600	0.0128	1.3	0.210
11/20/15	104,710	13,210	24	550	8,660	0.0398	1.0	0.151
03/23/16	114,640	NA	NA	NA	NA	NA	NA	NA
05/19/16	127,415	12,775	57	224	4,160	0.0078	0.4	0.070
06/28/16	148,810	21,395	40	535	3,720	0.0166	0.7	0.105
07/07/16	155,900	7,090	9	788	6,360	0.0418	0.4	0.059
08/24/16	190,170	34,270	48	714	6,370	0.0380	1.8	0.288
09/21/16	204,940	14,770	28	528	6,690	0.0295	0.8	0.130
10/24/16	225,540	20,600	33	624	4,040	0.0211	0.7	0.110
11/03/16	234,090	8,550	10	855	7,280	0.0520	0.5	0.082

Table 4-3. Groundwater Treatment System
Mass Removal Calculations for Total BTEX
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Water Totalizer Meter Reading (gals)	Water Volume (gals)	Elapsed Time (days)	Flow Rate (gals/day)	Total BTEX (ug/L)	Mass Removal Rate (lbs/day)	Mass Removed (lbs)	Mass Removed (equivalent gals)
07/05/17	242,360	NA	NA	NA	NA	NA	NA	NA
07/11/17	248,050	5,690	6	948	15,194	0.1203	0.7	0.114
08/24/17	272,050	24,000	44	545	9,100	0.0414	1.8	0.288
09/25/17	296,160	24,110	32	753	12,450	0.0783	2.5	0.396
10/23/17	316,010	19,850	28	709	12,100	0.0716	2.0	0.317
11/27/17	331,400	15,390	35	440	12,100	0.0444	1.6	0.246
06/11/18	332,910	NA	NA	NA	NA	NA	NA	NA
06/25/18	342,410	9,500	14	679	4,620	0.0262	0.4	0.058
07/23/18	350,000	7,590	28	271	7,300	0.0165	0.5	0.073
08/06/18	354,640	4,640	14	331	9,780	0.0271	0.4	0.060
09/24/18	363,300	8,660	49	177	10,850	0.0160	0.8	0.124
10/22/18	374,330	11,030	28	394	12,260	0.0403	1.1	0.178
01/01/19	374,330	0	71	0	NA	NA	NA	NA
06/30/19	374,790	460	180	3	NA	NA	NA	NA
08/20/19	377,060	980	14	70	NA	NA	NA	NA
09/16/19	383,000	10,017	27	371	12,540	0.0389	1.049	0.166
10/29/19	398,410	15,410	43	358	11,890	0.0355	1.528	0.241
						Total	**71**	**11.277**

Notes:
BTEX - benzene, toluene, ethylbenzene, xylenes
gals - gallons
ug/L - micrograms per liter
lbs - pounds
NA - not applicable, system deactivated during winter months
Total BTEX concentrations are reported from analytical results of monthly influent samples.
1) Specific gravity of VOC is 0.76 based on Fingerprinting Analytical performed by Core Laboratories in October 2012.
2) Between June and August 2019, system was deactivated due to semi-annual sampling delays and malfunctions with the system; therefore water treatment samples were not collected.

Prepared by: JIM 2/13/20
Checked by: RAH 2/25/20

Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
Post-Treatment	05/25/09	< 1.0	< 1.0	< 1.0	< 1.5	< 0.05	49	< 10	ND	< 0.5	**430**	**1,600**	< 1.0	1.3	490	130	2.7	200
	06/22/09	< 1.0	< 1.0	< 1.0	< 1.5	--	70	< 10	ND	< 0.5	**440**	**1,200**	< 5.0	1.5	430	130	2.6	200
	07/21/09	< 1.0	< 1.0	< 1.0	< 1.5	--	13	< 10	ND	< 0.5	**480**	**1,500**	< 2.0	**1.7**	470	140	3.1	210
	08/24/09	< 1.0	< 1.0	< 1.0	< 1.5	--	13	16	ND	< 0.5	74	110	< 2.0	**2.1**	510	140	3.1	210
	09/28/09	< 1.0	< 1.0	< 1.0	< 1.5	--	19	14	ND	< 0.5	**430**	**1,200**	< 1.0	**1.6**	370	120	2.8	210
	10/29/09	< 1.0	< 1.0	< 1.0	< 1.5	--	20	15	ND	< 0.5	**440**	**1,500**	< 0.5	**1.8**	440	130	3.1	200
	11/18/09	4.8	1.3	< 1.0	< 1.5	--	24	18	ND	< 0.5	**430**	**1,600**	< 2.0	**2.1**	490	140	3.4	200
	06/30/10	**5.6**	< 1.0	< 1.0	< 1.5	--	110	17	ND	< 0.5	**420**	**910**	< 1.0	**1.7**	330	120	2.8	210
	07/31/10	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**410**	**1,100**	< 1.0	1.1	420	130	5.3	200
	08/30/10	< 1.0	< 1.0	< 1.0	< 1.5	--	60	< 10	ND	< 0.5	**460**	**1,600**	< 2.0	1.2	500	150	2.8	210
	11/10/10	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	1.1	**480**	**1,300**	< 2.0	1.0	430	130	3.1	220
	08/10/11	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 10	**490**	**1,600**	< 0.1	1.1	500	150	3.7	230
	10/09/11	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**430**	**1,400**	1.4	1.5	490	160	2.8	220
	11/03/11	< 1.0	< 1.0	< 1.0	< 1.5	--	41	< 10	ND	< 0.5	**400**	**1,500**	< 0.1	1.4	520	140	2.6	210
	04/30/12	< 1.0	< 1.0	< 1.0	< 1.5	--	70	20	ND	< 10 (H)	**390**	**1,300**	< 1.0	**11 ***	490	140	2.8	210
	06/05/12	1.2	< 1.0	< 1.0	< 1.5	--	43	24	ND	< 10	**370**	**1,300**	< 1.0	**5.5 ***	490	130	3.0	200
	06/28/12	1.7	< 1.0	< 1.0	< 1.5	--	62	31	ND	< 10	**440**	**1,500**	< 0.2	**12 ***	500	150	2.8	220
	07/25/12	< 1.0	< 1.0	< 1.0	< 1.5	--	28	< 10	ND	< 10	**430**	**1,200**	< 0.2	**14 ***	460	140	3.0	200
	08/15/12	< 1.0	< 1.0	< 1.0	< 1.5	--	37	< 10	ND	< 0.5	**370**	**700**	0.20	1.4	350	120	2.7	210
	09/23/12	< 1.0	< 1.0	< 1.0	< 1.5	--	71	< 10	ND	< 0.5	**420**	**660**	< 0.1	1.4	330	120	3.3	210
	10/25/12	< 1.0	< 1.0	< 1.0	< 1.5	--	55	< 10	ND	< 2.5	**420**	**1,200**	< 0.5	< 0.5	410	140	2.5	210
	11/28/12	< 1.0	< 1.0	< 1.0	< 1.5	--	44	< 10	ND	< 0.5	**440**	**1,200**	< 1.0	< 0.5	360	130	3.2	200
	05/16/13	< 1.0	< 1.0	< 1.0	< 1.5	--	59	< 10	ND	< 0.5	**380**	**1,300**	< 0.1	**7.8 ***	490	140	3.2	210
	06/17/13	< 1.0	< 1.0	< 1.0	< 1.5	--	66	< 10	ND	< 10	**340**	**1,000**	< 0.1	**5.4 ***	460	130	5.6	230
	07/17/13	< 1.0	< 1.0	< 1.0	< 1.5	--	74	17	ND	< 2.5 (H)	**380**	**1,100**	< 1.0	1.2	480	130	2.8	200
	07/31/14	< 1.0	< 1.0	< 1.0	< 3.0	--	6.2	< 2	ND	< 0.0 (H)	**430**	**1,320**	< 0.1	**4.64**	503	126	2.8	211
	08/25/14	< 1.0	< 1.0	< 1.0	< 3.0	--	14	< 2	ND	< 0	**372**	**983**	< 0.1	1.17	397	126	2.4	182
	09/17/14	< 1.0	< 1.0	< 1.0	< 3.0	--	< 2	< 2	ND	1.8	**359**	**939**	< 0.1	**2.55**	281	109	382	249
	10/15/14	< 1.0	< 1.0	< 1.0	< 3.0	--	10	< 2	ND	< 0	**315**	**1,730**	0.46	1.38	489	152	5.00	302
	07/15/15	< 1.0	< 1.0	< 1.0	< 3.0	--	25	< 2	ND	< 0.025	**395**	**617**	< 0.1	1.44	227	95.1	2.12	201
	10/27/15	< 1.0	< 1.0	< 1.0	< 3.0	--	11	0.22	ND	0.041	**382**	483	<0.1	**1.66**	242	107	1.77	190
	11/20/15	< 1.0	< 1.0	< 1.0	< 3.0	--	< 2	< 2	ND	0.111	**397**	429	0.242	**5.53**	244	88.4	1.48	189
	03/21/16	< 1.0	< 1.0	< 1.0	< 3.0	--	32	< 2	ND	0.195	**387**	411	< 0.1	1.48	232	101	1.45	204
	04/20/16	< 1.0	< 1.0	< 1.0	< 3.0	--	19	< 2	ND	0.195	**388**	358	< 0.1	1.37	197	97.1	1.42	215
	05/19/16	< 1.0	< 1.0	< 1.0	< 3.0	--	< 2	< 2	ND	< 0.025	**458**	415	< 0.1	**2.06**	258	104	1.69	227
	06/28/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	**840**	< 0.1	**2.60**	280	110	2.6	200
	07/07/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**360**	**780**	< 0.1	< 0.1	290	120	2.1	210
	08/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 10	**350**	**850**	< 0.1	**1.9**	290	120	1.7	210
	09/21/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**370**	**890**	< 0.1	**1.9**	320	120	2.1	230
	10/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**360**	**900**	< 0.1	1.5	340	130	2.3	220
	11/03/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**330**	**910**	< 0.1	**1.9**	330	120	1.9	200
Post-Treatment	07/11/17	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 2.5	**420**	560	< 0.1	< 0.5	220	92	1.7	170
	08/24/17	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**370**	520	< 0.1	1.5	220	110	1.7	210
	09/25/17	3.1	2.1	< 1.0	< 1.5	--	< 10	< 10	ND	< 2.5	**410**	**610**	< 0.5	< 0.5	260	110	2.2	120
	10/23/17	1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	**740**	< 0.1	1.2	270	100	1.8	190
	11/27/17	1.7	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	**810**	< 0.1	1.2	310	100	1.8	200
	06/28/18	< 2.5	< 2.5	< 2.5	< 3.8	--	< 25	< 25	ND	< 0.5	**420**	230	< 1.0	1.1	140	110	1.9	220
	07/23/18	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**410**	340	< 0.1	< 0.1	200	110	1.9	210
	08/13/18	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	420	< 0.1	< 0.5	240	130	1.9	210

Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
Post-Treatment	09/19/18	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**440**	550	< 0.1	< 2.0	280	120	3.0	210
	10/18/18	< 1.0	< 1.0	< 1.0	< 1.5	--	17	< 10	ND	< 0.5	**400**	590	< 0.1	1.1	270	120	1.7	220
	09/16/19	< 1.0	< 1.0	< 1.0	< 1.5	--	<10	10	ND	<0.5	**440**	800	<0.1	0.98	290	110	2.2	220
	10/29/19	< 1.0	< 1.0	< 1.0	< 1.0	--	<10	< 10	ND	<0.5	**400**	NT	NT	NT	320	110	2.1	200
Between GACs	06/22/09	**350**	570	16	210	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/21/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/28/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/18/09	**9.3**	3.3	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/10	2.1	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/10	**200**	200	12	150	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/30/10	**300**	440	22	280	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/10/10	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/10/11	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/09/11	3.2	1.6	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/11	2.8	1.6	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/30/12	3.6	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/05/12	3.9	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/12	4.7	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/25/12	1.8	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/15/12	1.7	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/23/12	1.7	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/25/12	1.5	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/28/12	1.5	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/16/13	3.3	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/17/13	4.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/17/13	3.2	1.8	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/14	**5.5**	3.4	< 1.0	4	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/25/14	**6.4**	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/17/14	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/15/14	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/15/15	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/27/15	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/20/15	**12**	10.0	< 1.0	7.5	--	---	---	---	---	---	---	---	---	---	---	---	---
Between GACs	03/21/16	**6.7**	9.9	< 1.0	20	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/20/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/19/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/07/16	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/21/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/24/16	4.5	5	< 1.0	4.4	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/16	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/11/17	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/17	4	3.6	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/25/17	**600**	650	25	220	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/24/17	**16**	14	<1.0	7.7	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/17	**21**	19	< 1.0	8.7	--	---	---	---	---	---	---	---	---	---	---	---	---

Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
	06/28/18	**5.2**	2.6	< 1.0	1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/18	**13**	7.1	< 1.0	5.6	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/13/18	**11**	5	< 1.0	3.9	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/19/18	**8.1**	4	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/18/18	**47**	47	1.6	21	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/16/19	**2.1**	<1.0	<1.0	<2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/19	**17**	18	<1.0	9.2	--	---	---	---	---	---	---	---	---	---	---	---	---
Post-Air Stripper	05/25/09	**260**	680	33	**790**	5.3	---	---	---	---	---	---	---	---	---	---	---	---
	06/22/09	**960**	**1,600**	63	**830**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/21/09	**280**	500	< 20	280	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/09	**230**	350	13	220	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/28/09	**290**	72	19	240	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/09	**450**	670	42	430	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/18/09	**200**	470	18	300	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/10	**450**	460	13	250	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/10	**190**	200	11	140	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/30/10	**450**	660	31	450	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/10/10	**59**	97	< 10	65	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/10/11	1.4	2.7	< 1	3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/09/11	**21**	37	2.0	22	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/11	**30**	66	3.4	47	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/30/12	< 1	1.3	< 1	2.2	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/05/12	< 1	1.0	< 1	< 2	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/12	< 1	< 1	< 1	< 2	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/25/12	**170**	270	12	130	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/15/12	**13**	16	< 5	10	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/23/12	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/25/12	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/28/12	**5.1**	8.4	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/16/13	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/17/13	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/17/13	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/14	< 1	< 1	< 1	< 3	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/25/14	< 1	< 1	< 1	< 3	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/17/14	< 1	< 1	< 1	< 3	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/15/14	5	11	< 1	10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/15/15	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/27/15	**12**	14	1.5	11	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/20/15	**110**	160	9.3	140	--	---	---	---	---	---	---	---	---	---	---	---	---
	03/21/16	**22**	77	14	200	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/20/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/19/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/16	< 2.5	< 5.0	< 5.0	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/0716	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/21/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/24/16	**20**	26	1.5	25	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/16	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
Post-Air Stripper	07/11/17	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---

Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
	08/24/17	5.6	6.7	< 1.0	3.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/25/17	**380**	470	19	190	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/23/17	**9.6**	13	< 1.0	8	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/17	**29**	38	2	20	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/18	**8.3**	8.1	< 1.0	6.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/18	**22**	19	1.7	17	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/13/18	**20**	20	1.5	14	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/19/18	**74**	71	4.4	42	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/18/18	**110**	170	10	120	---	---	---	---	---	---	---	---	---	---	---	---	---
	09/16/19	**5.0**	6.2	<1.0	3.6	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/19	**44**	52	1.9	36	---	---	---	---	---	---	---	---	---	---	---	---	---
Pre-Treatment	05/25/09	**640**	**1,700**	99	**1,900**	15	---	---	---	---	---	---	---	---	---	---	---	---
	06/22/09	**2,700**	**4,500**	210	**2,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/21/09	**2,500**	**4,600**	210	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/09	**2,700**	**4,000**	200	**2,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/28/09	**2,900**	910	220	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/09	**3,000**	**4,100**	280	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/18/09	**1,400**	**3,300**	140	**2,000**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/10	**2,700**	**2,800**	120	**1,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/10	**1,900**	**2,000**	140	**1,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/30/10	**1,800**	**2,600**	150	**1,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/10/10	**2,400**	**3,900**	220	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/10/11	**970**	**1,900**	130	**1,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/09/11	**3,000**	**4,800**	240	**2,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/11	**2,400**	**4,900**	260	**2,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/30/12	**3,100**	**3,400**	200	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/05/12	**2,600**	**3,900**	220	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/12	**3,000**	**4,500**	250	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/25/12	**2,900**	**4,600**	260	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/15/12	**2,900**	**3,500**	270	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/23/12	**2,600**	**3,600**	270	**2,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/25/12	**3,200**	**4,400**	280	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/28/12	**2,300**	**3,700**	230	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/16/13	**2,800**	**4,900**	260	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/17/13	**2,500**	**4,500**	260	**2,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/17/13	**3,000**	**5,300**	270	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/14	**570**	**1,500**	< 100	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/25/14	**1,200**	**1,600**	110	**1,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/17/14	**2,100**	**3,100**	180	**1,900**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/15/14	**2,200**	**3,900**	200	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/15/15	**2,700**	**2,600**	160	**1,900**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/27/15	**1,700**	**1,700**	< 100	**1,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/20/15	**2,700**	**3,500**	160	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	03/21/16	**1,500**	**2,200**	140	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/20/16	**1,100**	**1,600**	100	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/19/16	**960**	**1,100**	100	**2,000**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/16	**2,100**	520	130	**970**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/07/16	**2,000**	**2,400**	160	**1,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/16	**1,500**	**2,500**	170	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---

Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
	09/21/16	**1,900**	**2,400**	190	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
Pre-Treatment	10/24/16	**1,100**	**1,200**	140	**1,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/16	**1,700**	**3,000**	180	**2,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/11/17	**5,200**	**7,000**	160	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/17	**3,600**	**3,800**	200	**1,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/25/17	**4,300**	**5,700**	250	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/23/17	**4,400**	**5,200**	200	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/17	**4,400**	**5,300**	200	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/18	**1,900**	**1,600**	120	**1,000**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/18	**3,000**	**2,300**	200	**1,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/13/18	**3,800**	**3,600**	280	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/19/18	**4,100**	**4,300**	250	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/18/18	**3,900**	**5,400**	260	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/16/19	**4,600**	**5,400**	240	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/19	**4,500**	**5,000**	190	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

Prepared by: JIM 2/17/20

ug/L = micrograms per liter

NT = Not Tested

Checked by: RAH 2/25/20

Concentrations are reported in ug/L except as noted.

Bold - Concentrations exceed the NMWQCC standard

Historical data before 2009 is presented in previous reports.

Table 4-5. Summary of Air Stripper Vapor Monitoring
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Prior to Carbon (ppmV)	Between Carbon Vessels (ppmV)	After Carbon Vessels (ppmV)
7/15/2019	7.05	0	0
8/22/2019	14.6	0	0
8/31/2019	14.6	0	0
9/1/2019	25.1	0	0
9/16/2019	25.1	0	0

Notes:

Prepared by: JIM 04/17/20

Checked by: SD 04/22/20

1. ppmV - parts per million per volume

2. Due to an undiscovered blockage (insects and debris) of the sample port prior to air stripper carbon vessel, influent PID vapor readings were inadvertently reported as zero by field personnel. 2018 historical data combined with available 2019 water treatment data was used to correlate and average the approximate influent PID vapor reading for air stripper carbon vessel.

3. PID vapor readings were inadvertently not collected from the ports of the carbon vessels by field personnel in October 2019 prior to be deactivated for semiannual sampling event.

Table 4-6. Historical Hydrocarbon Removal Summary
Transwestern Compressor Station No. 9 - Roswell, NM

Year	Extracted Groundwater (gals)	PSH Recovered (gal)	Dissolved-Phase Mass Removal (gal)	Vapor-Phase Mass Removal (gal)	Total Mass Removed (Lbs)
2015	64,140	310	0.46	380	3
2016	137,650	350	0.90	320	5
2017	90,550	1,550	1.40	480	8.6
2018	41,120	1,330	0.50	1,320	3.12
2019	23,620	1,550	0.41	910	2.58

Notes:
gals - gallons
PSH - phase separated hydrocarbons

Prepared by: JIM 04/17/20
Checked by: SD 04/22/20

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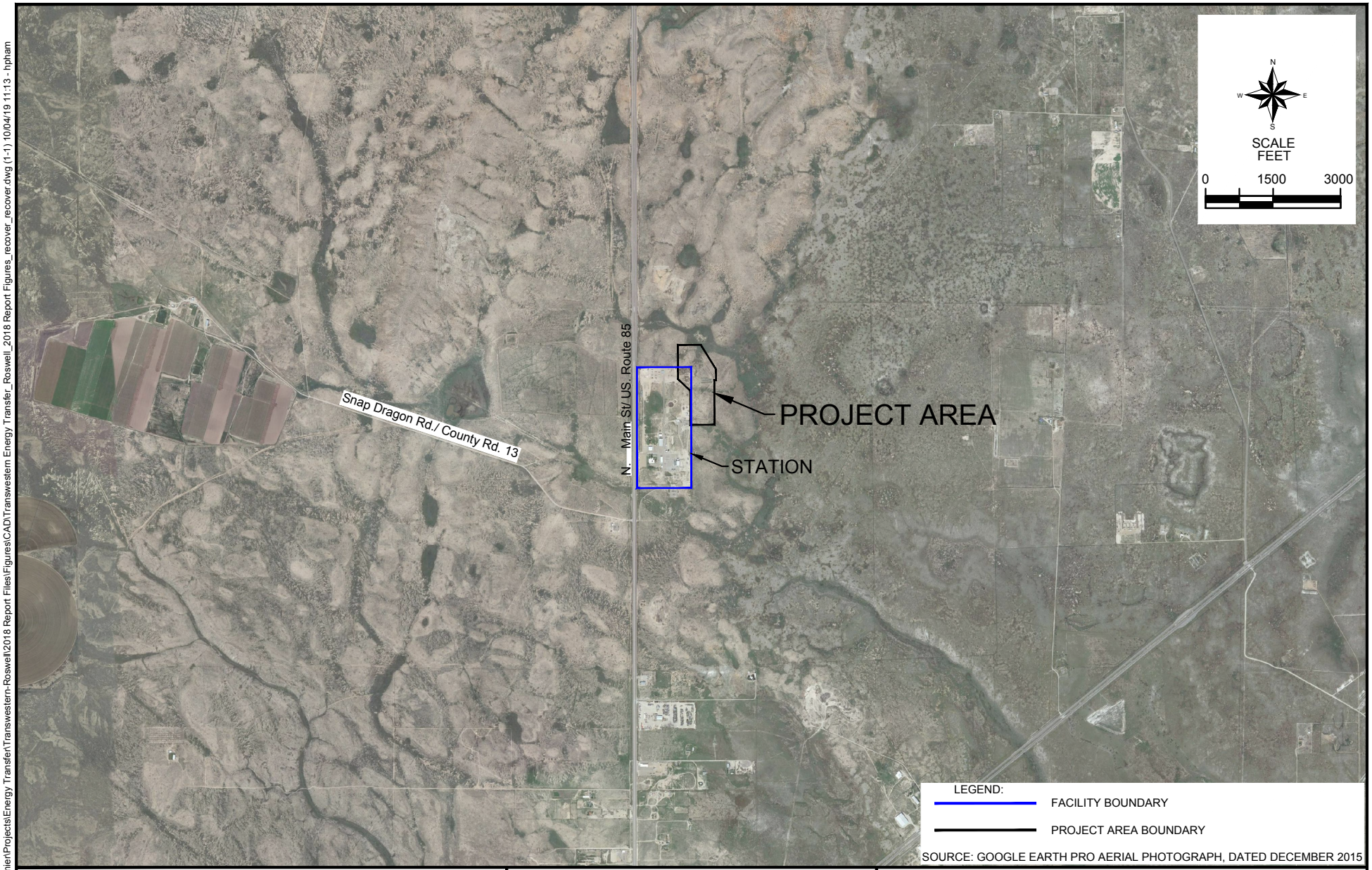
FIGURES



REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

PROJECT AREA LOCATION MAP

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JF	10/04/2019	1-1

FILENAME: \\10.0.10.34\garnet\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover.dwg (1-1) 10/04/19 11:13 - hpham

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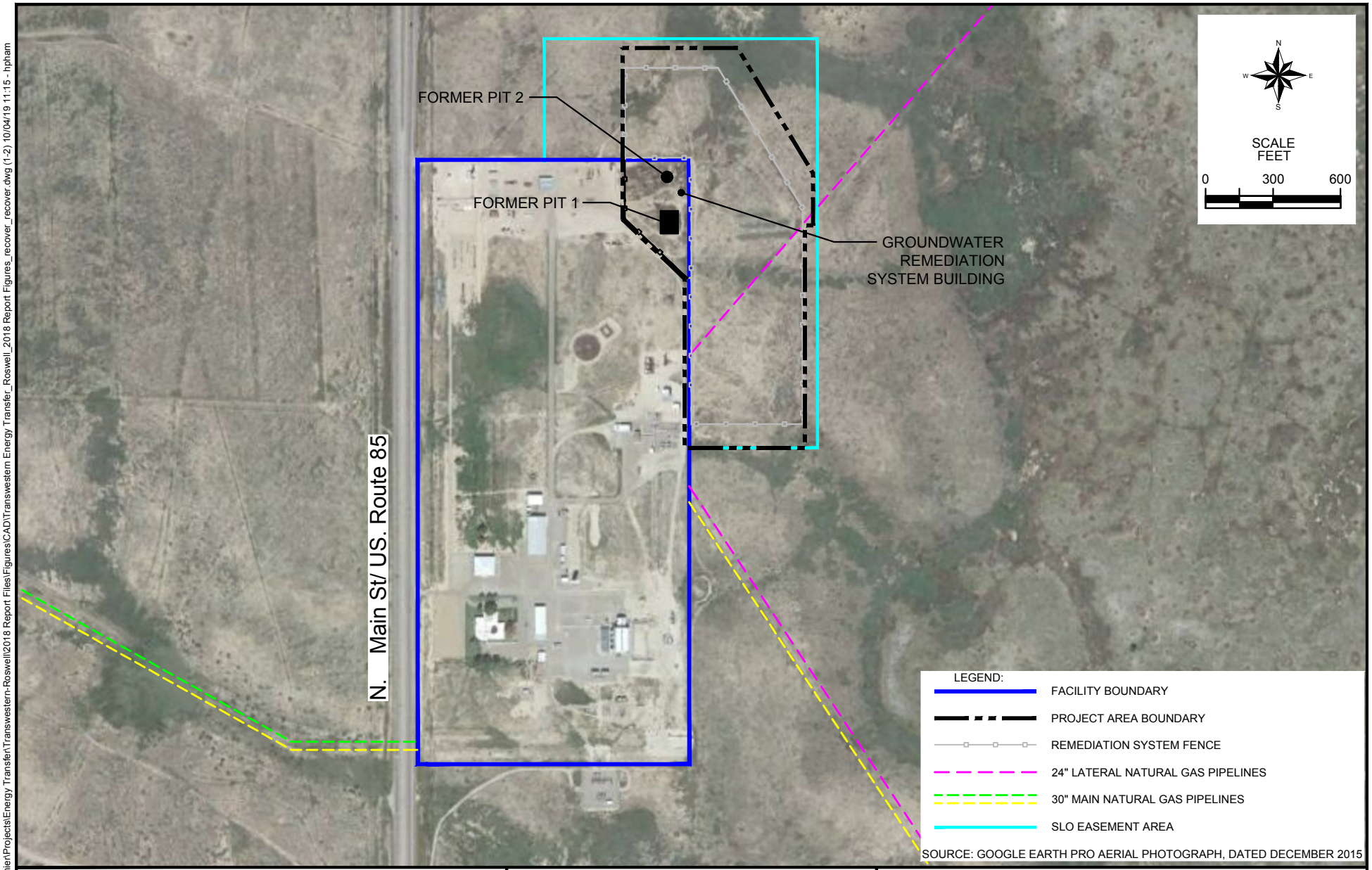

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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PROJECT AREA FEATURES

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JF	10/04/2019	1-2

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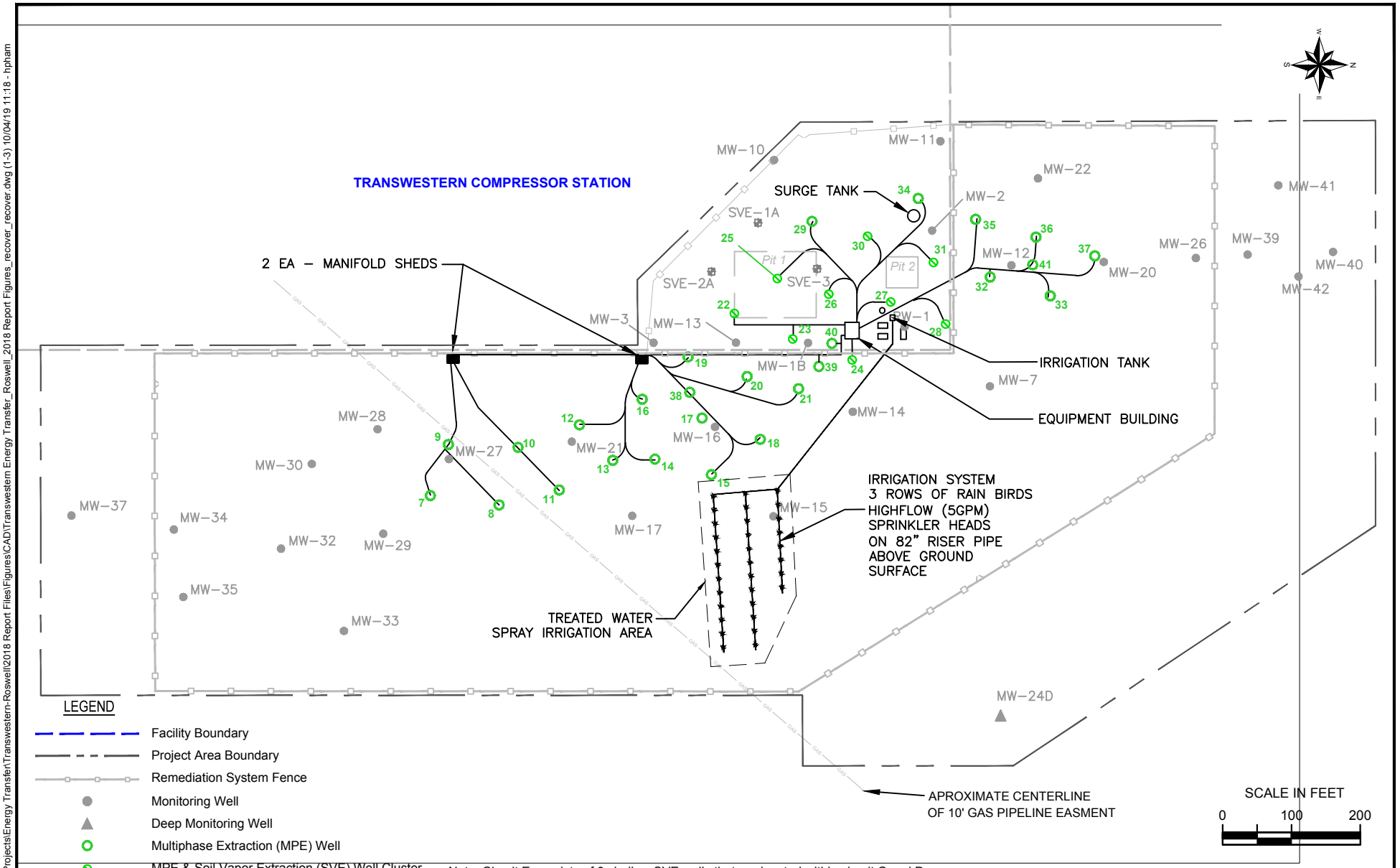

Note: Circuit E consists of 9 shallow SVE wells that are located within circuit C and D.

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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REMEDIATION SYSTEM LAYOUT

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HVP	JF	10/04/2019	1-3

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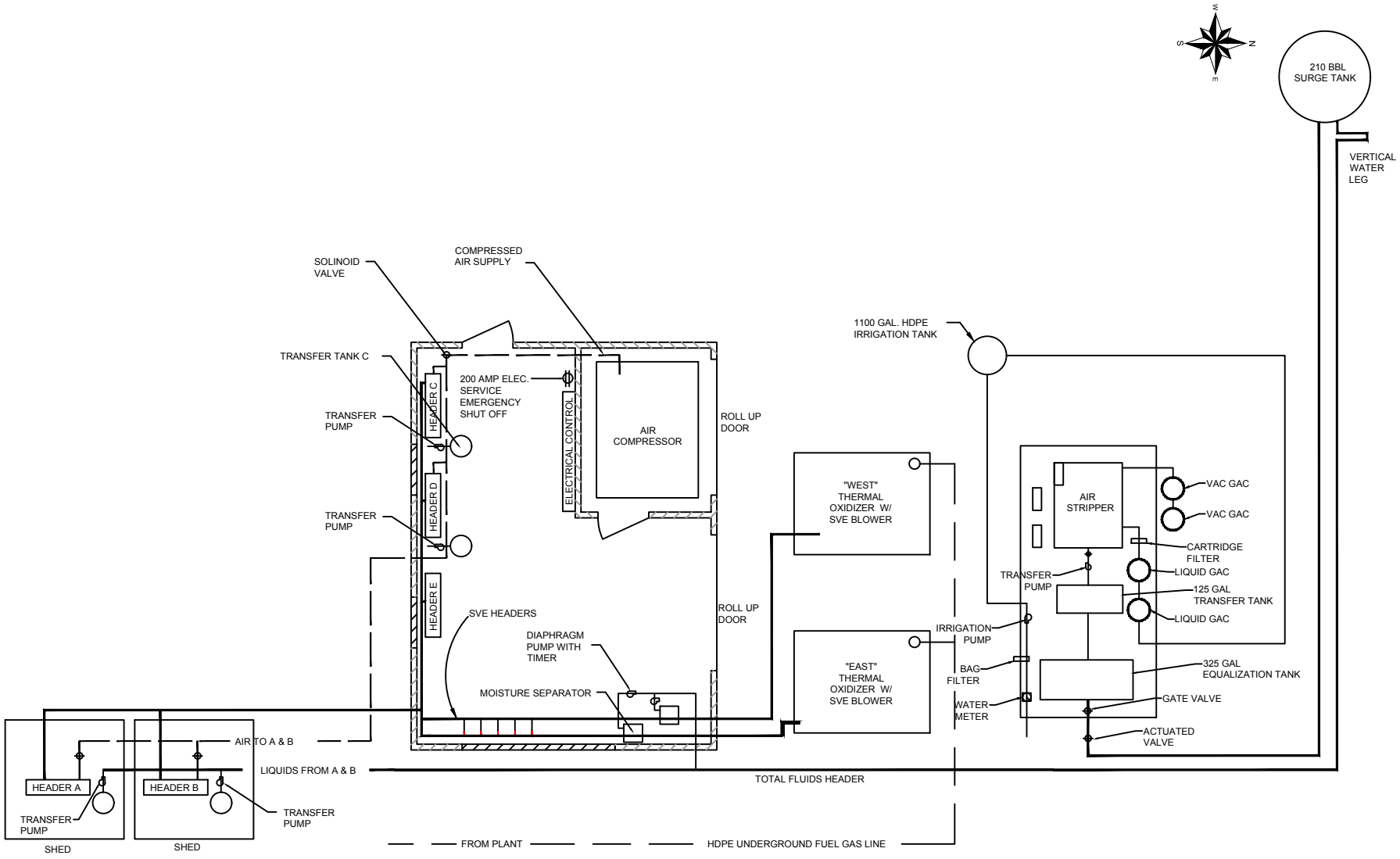

(NOT TO SCALE)

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
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REMEDIATION SYSTEM
EQUIPMENT COMPOUND DETAIL

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JF	10/04/2019	1-4

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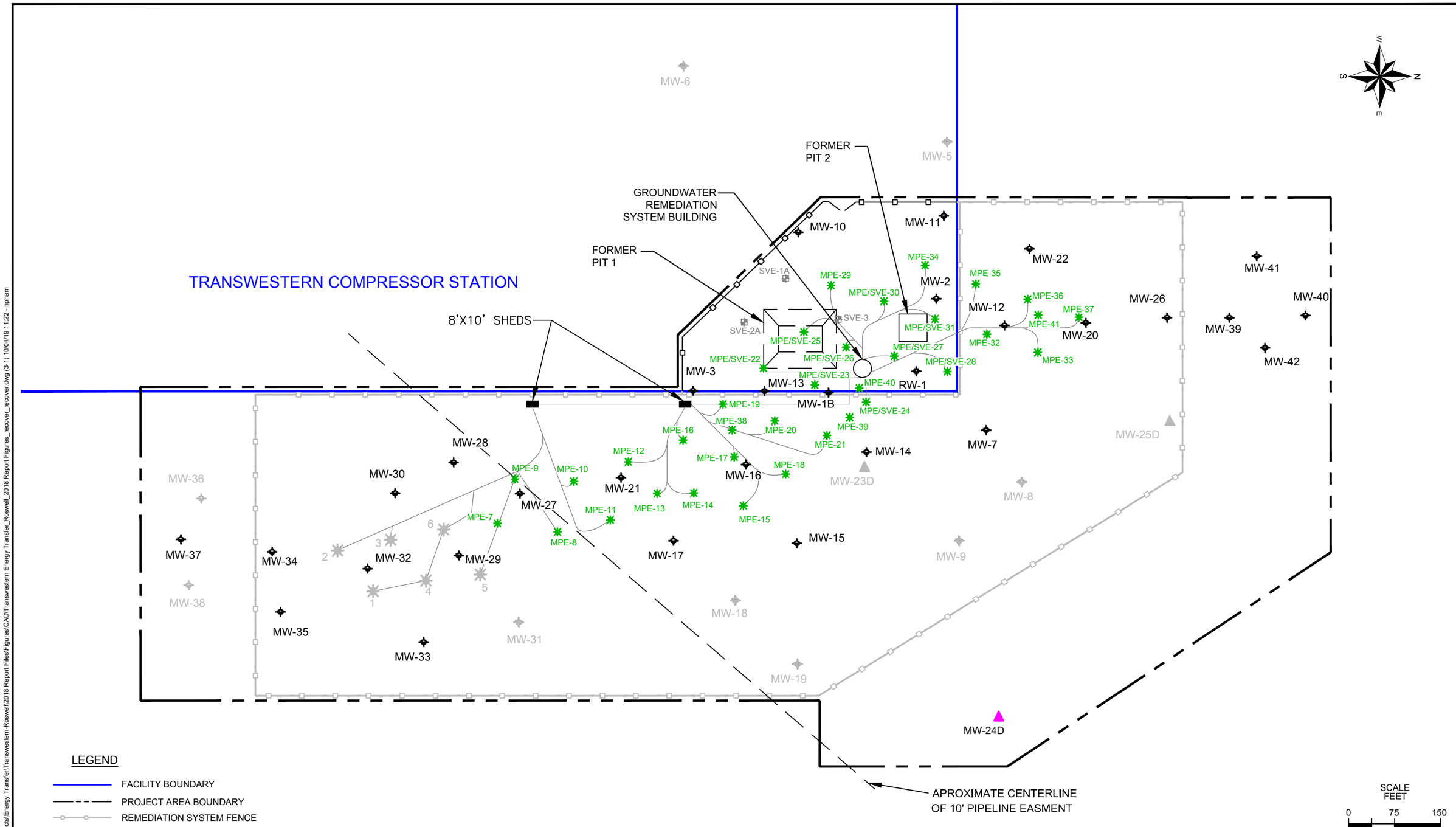

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MONITORING WELL
- MULTIPHASE EXTRACTION WELL
- DEEP MONITORING WELL
- MONITORING/MULTIPHASE EXTRACTION WELL PLUGGED AND ABANDONED IN AUGUST 2013 (MWs, MW-D, MPEs)

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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WELL LOCATIONS

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JF	10/04/2019	3-1

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TRANSWESTERN COMPRESSOR STATION

GROUNDWATER REMEDIATION SYSTEM BUILDING

FORMER PIT 1

FORMER PIT 2

MW-10 3,548.96
MW-11 3,548.90
MW-22 3,548.87
MW-2 3,552.84
MW-12 3,551.60
MW-20 3,549.34
MW-26 3,548.66
MW-41 3,544.88
MW-40 3,543.28
MW-39 3,548.41
MW-42 3,540.92
MW-3 3,548.30
MW-13 3,548.06
MW-1B 3,549.25
RW-1
MW-28 3,545.94
MW-30 3,545.71
MW-27 3,546.33
MW-21 3,546.11
MW-16 3,545.85
MW-14 3,549.67
MW-7 3,537.03*
MW-15 3,550.1
MW-17 3,546.15
MW-37 3,541.04
MW-34 3,541.25
MW-32 3,541.65
MW-29 3,544.23
MW-35 3,540.98
MW-33 3,545.41
MW-24D

SVE-1A SVE-2A SVE-3

MPE-7 MPE-8 MPE-9 MPE-10 MPE-12 MPE-13 MPE-16 MPE-19 MPE-20 MPE-21 MPE-24 MPE-29 MPE-30 MPE-34 MPE-35 MPE-36 MPE-37 MPE-38 MPE-39 MPE-41

MPE/SVE-22 MPE/SVE-25 MPE/SVE-27 MPE/SVE-28 MPE/SVE-31

3548 3550 3552 3546 3544 3542

APROXIMATE CENTERLINE OF 10' PIPELINE EASMENT

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-35 3540.89 — MONITORING WELL WITH GROUNDWATER ELEVATION (ft MSL)
- DEEP MONITORING WELL (GROUNDWATER ELEVATION NOT USED IN CONTOURING)
- MULTIPHASE EXTRACTION WELL
- 3,544 — POTENTIOMETRIC GROUNDWATER CONTOUR
- GENERAL DIRECTION OF GROUNDWATER FLOW
- 3,550.1* — GROUNDWATER ELEVATION CONSIDERED ANOMALOUS AND NOT USED IN CONTOURING

SOURCE: CYPRESS ENGINEERING SERVICES INC.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

GROUNDWATER SURFACE ELEVATION IN THE UPPERMOST AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	3/16/2020	3-2

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TRANSWESTERN COMPRESSOR STATION

FORMER PIT 2

GROUNDWATER REMEDIATION SYSTEM BUILDING

FORMER PIT 1

MW-10
MW-11
MW-22
MW-41
MW-40
MW-26
MW-39
MW-42
MW-12
MW-20
MW-2
MW-3
MW-13
MW-1B
RW-1
MW-14
MW-7
MW-16
MW-15
MW-17
MW-24D
MW-28 3,546.09
MW-30 3,545.74
MW-27 3,546.29
MW-21 3,546.73
MW-37 3,540.73
MW-34 3,541.07
MW-32 3,541.73
MW-29 3,544.22
MW-35 3,540.40
MW-33 3,545.42

SVE-1A
SVE-2A
SVE-3

MPE-7 MPE-8 MPE-9 MPE-10 MPE-11 MPE-12 MPE-13 MPE-14 MPE-15 MPE-16 MPE-17 MPE-18 MPE-19 MPE-20 MPE-21 MPE-22 MPE-23 MPE-24 MPE-25 MPE-26 MPE-27 MPE-28 MPE-29 MPE-30 MPE-31 MPE-32 MPE-33 MPE-34 MPE-35 MPE-36 MPE-37 MPE-38 MPE-39 MPE-40 MPE-41

3542
3544
3546

APROXIMATE CENTERLINE OF 10' PIPELINE EASMENT

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-35 3540.89 — MONITORING WELL WITH GROUNDWATER ELEVATION (ft MSL)
- DEEP MONITORING WELL (GROUNDWATER ELEVATION NOT USED IN CONTOURING)
- MULTIPHASE EXTRACTION WELL
- 3,540.40 — POTENTIOMETRIC GROUNDWATER CONTOUR
- GENERAL DIRECTION OF GROUNDWATER FLOW

SOURCE: CYPRESS ENGINEERING SERVICES INC.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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GROUNDWATER SURFACE ELEVATION IN THE UPPERMOST AQUIFER NOVEMBER 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	3/16/2020	3-3A

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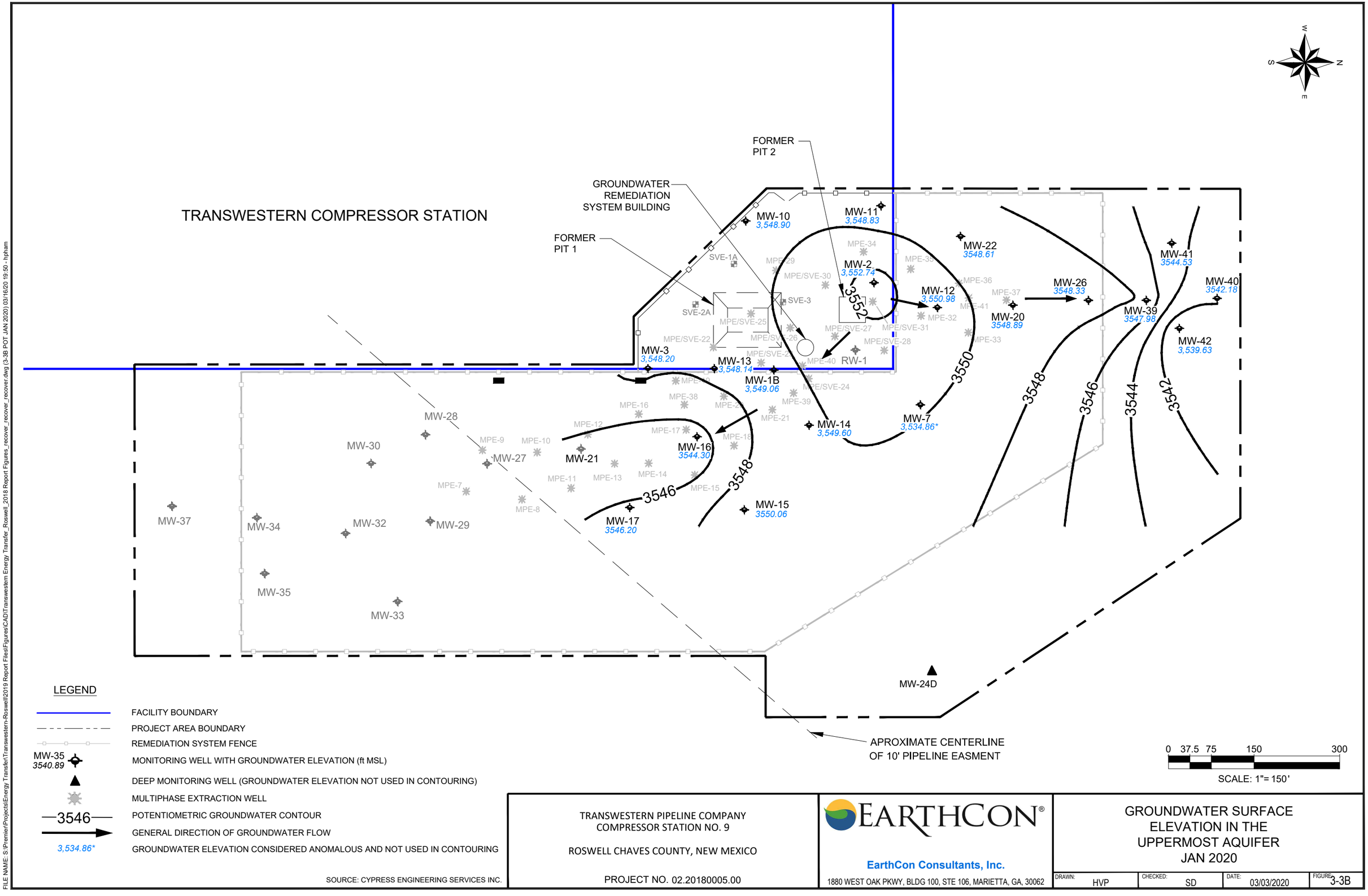

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover_recover_recover.dwg (3-3B POT JAN 2020) 03/16/20 19:50 - hpham

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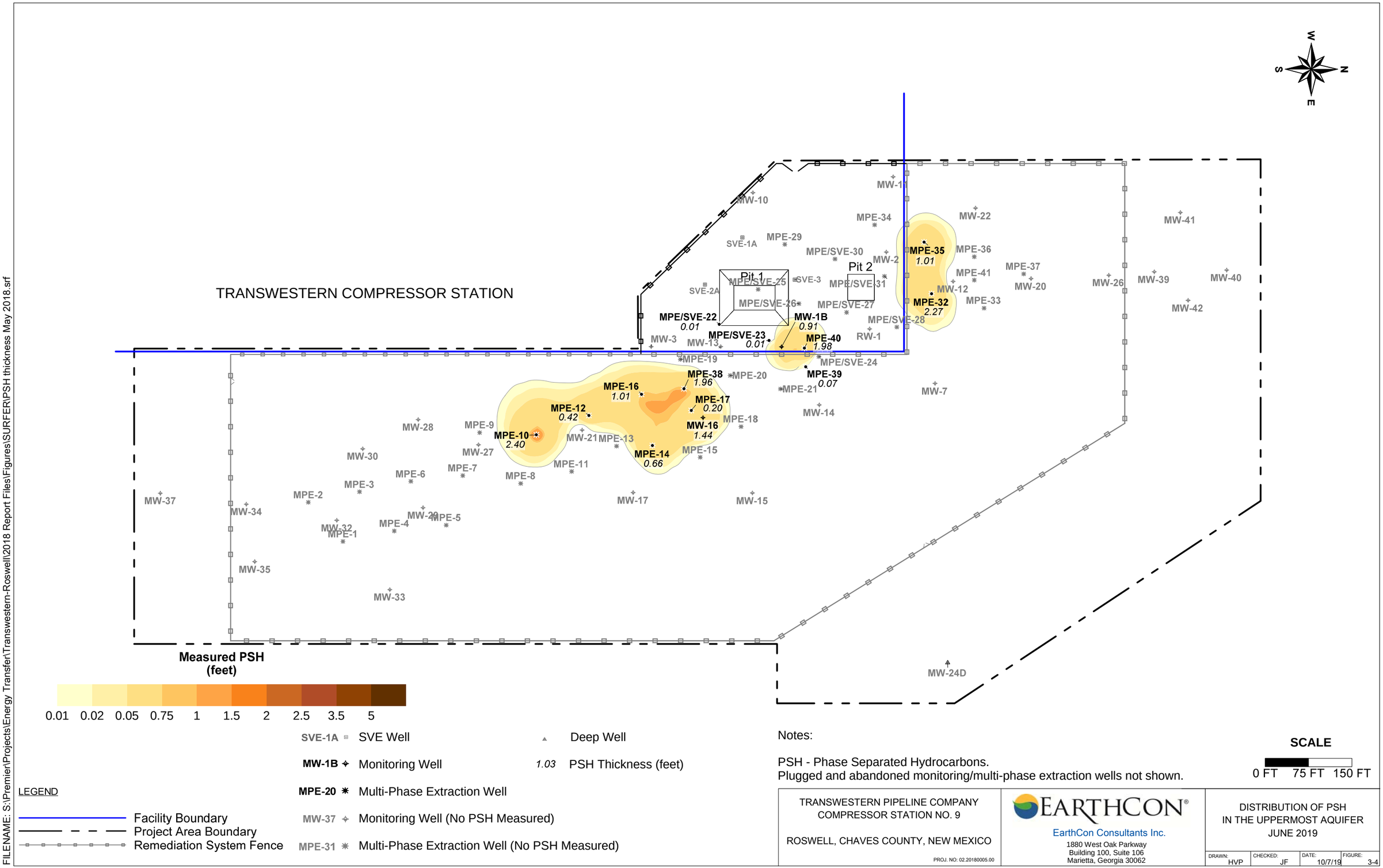
FILENAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\SURFER\PSH thickness May 2018.srf



Notes:

PSH - Phase Separated Hydrocarbons.
Plugged and abandoned monitoring/multi-phase extraction wells not shown.

SCALE
0 FT 75 FT 150 FT

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.20180005.00

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1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

DISTRIBUTION OF PSH
IN THE UPPERMOST AQUIFER
JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JF	10/7/19	3-4

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FILENAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\SURFER\PSH thickness May 2018.srf

TRANSWESTERN COMPRESSOR STATION

Pit 1

Pit 2

MW-1
MW-10
MW-22
MW-41
MPE-34
MPE-29
SVE-1A
MPE/SVE-30
MW-2
MPE-35 1.72
MPE-36
MPE-37
MPE-41 1.25
MW-20
MW-26
MW-39
MW-40
MW-42
SVE-2A
MPE/SVE-25
SVE-3
MPE/SVE-31
MW-12
MPE-32 1.50
MPE-33
MPE/SVE-26
MPE/SVE-22
MW-1B 0.35
MPE/SVE-27 1.24
RW-1
MPE/SVE-28
MW-3
MW-13
MPE/SVE-23 0.65
MPE-40 2.80
MPE-19
MPE/SVE-24
MPE-38 1.72
MPE-39 0.15
MPE-16 2.00
MPE-20 0.12
MPE-21
MW-7
MPE-17 0.15
MPE-12 0.67
MW-14
MW-28
MPE-9
MPE-18
MW-16 0.05
MPE-10 0.01
MW-21
MPE-13
MPE-15
MW-27
MPE-14 0.82
MW-30
MPE-11
MPE-7
MPE-6
MPE-8
MPE-3
MW-37
MPE-2
MW-17
MW-15
MW-34
MW-29
MPE-5
MW-32
MPE-4
MPE-1
MW-35
MW-33
MW-24D

Measured PSH (feet)

0.01 0.02 0.05 0.75 1 1.5 2 2.5 3.5 5

LEGEND

- Facility Boundary
- Project Area Boundary
- Remediation System Fence

SVE-1A	SVE Well	▲	Deep Well
MW-1B	Monitoring Well	0.82	PSH Thickness (feet)
MPE-20	Multi-Phase Extraction Well		
MW-37	Monitoring Well (No PSH Measured)		
MPE-31	Multi-Phase Extraction Well (No PSH Measured)		

Notes:

PSH - Phase Separated Hydrocarbons.
Plugged and abandoned monitoring/multi-phase extraction wells not shown.

SCALE
0 FT 75 FT 150 FT

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.20180005.00

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DISTRIBUTION OF PSH
IN THE UPPERMOST AQUIFER
JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JM	3/6/20	3-5

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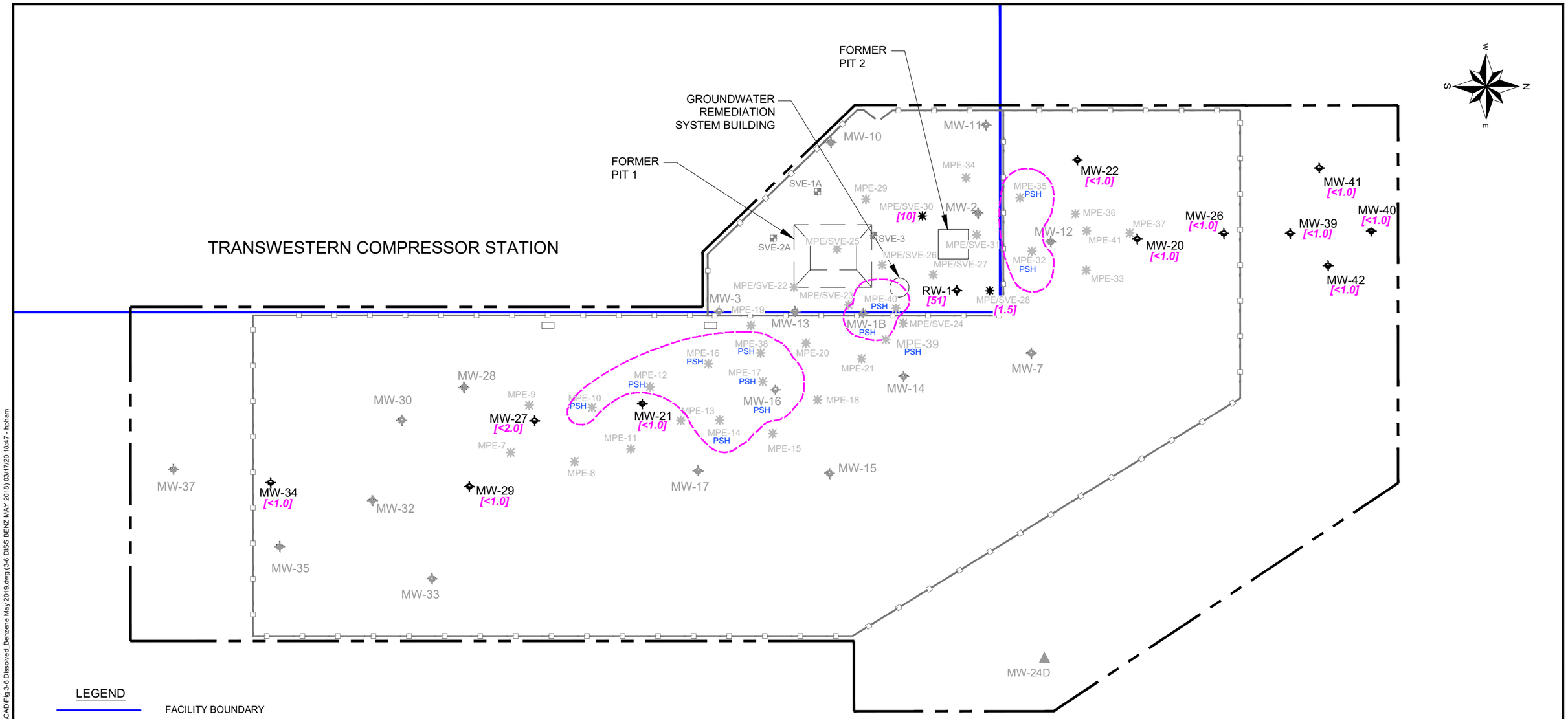

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL
- MPE-31 — MULTIPHASE EXTRACTION WELL
- MW-30 — MONITORING WELL (NOT SAMPLED)
- SVE-1A — SVE WELL (NOT SAMPLED)
- MPE-15 — MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- MPE/SVE-27 — MPE WELL CO-LOCATED WITH SVE WELL
- MPE/SVE-26 — MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
- MW-24D — DEEP WELL IN DEEP AQUIFER (NOT SAMPLED)
- APPROXIMATE HORIZONTAL EXTENT OF PSH
- [50] — BENZENE CONCENTRATION (ug/L)
- PSH — PSH DETECTED

NOTES:
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELLS NOT SHOWN.
1. SVE AND RW-1 WELLS ARE LOCATED ABOVE THE UPPER MOST AQUIFER AND SHOWN FOR ILLUSTRATION PURPOSE.
2. RESULTS SHOWN FOR MPE/SVE CO-LOCATED WELLS ARE ASSOCIATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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DISTRIBUTION OF DISSOLVED BENZENE UPPERMOST AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	03/16/2020	3-6

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-6 Dissolved_Benzene May 2019.dwg (3-6 DISS BENZ MAY 2018) 03/17/20 18:47 - hpham

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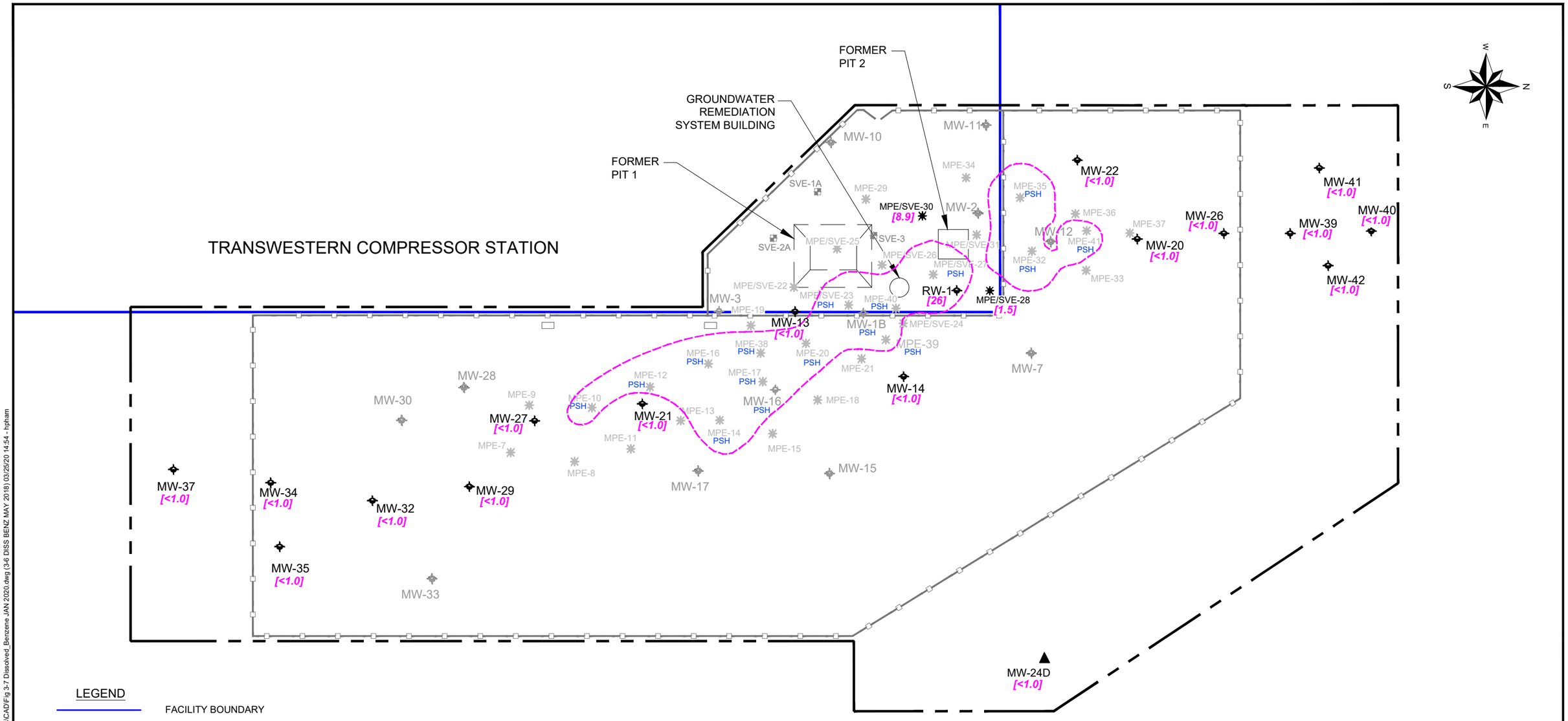

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL
- MPE-31 — MULTIPHASE EXTRACTION WELL
- MW-30 — MONITORING WELL (NOT SAMPLED)
- SVE-1A — SVE WELL (NOT SAMPLED)
- MPE-15 — MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- MPE/SVE-27 — MPE WELL CO-LOCATED WITH SVE WELL
- MPE/SVE-26 — MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
- MW-24D — DEEP WELL IN DEEP AQUIFER
- APPROXIMATE HORIZONTAL EXTENT OF PSH
- [26] — BENZENE CONCENTRATION (ug/L)
- PSH — PSH DETECTED

NOTES:
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELLS NOT SHOWN.

1. SVE AND RW-1 WELLS ARE LOCATED ABOVE UPPER MOST AQUIFER AND SHOWN FOR ILLUSTRATION PURPOSE.
2. RESULTS SHOWN FOR MPE/SVE CO-LOCATED WITH SVE SAMPLES.
3. MW-27, MW-29, MW-32, MW-34, MW-35, AND MW-37 WERE SAMPLED IN NOVEMBER 2019.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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DISTRIBUTION OF DISSOLVED BENZENE UPPERMOST AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JM	3/16/2020	3-7

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-7 Dissolved_Benzene JAN 2020.dwg (3-6 DISS BENZ MAY 2018) 03/25/20 14:54 - hpham

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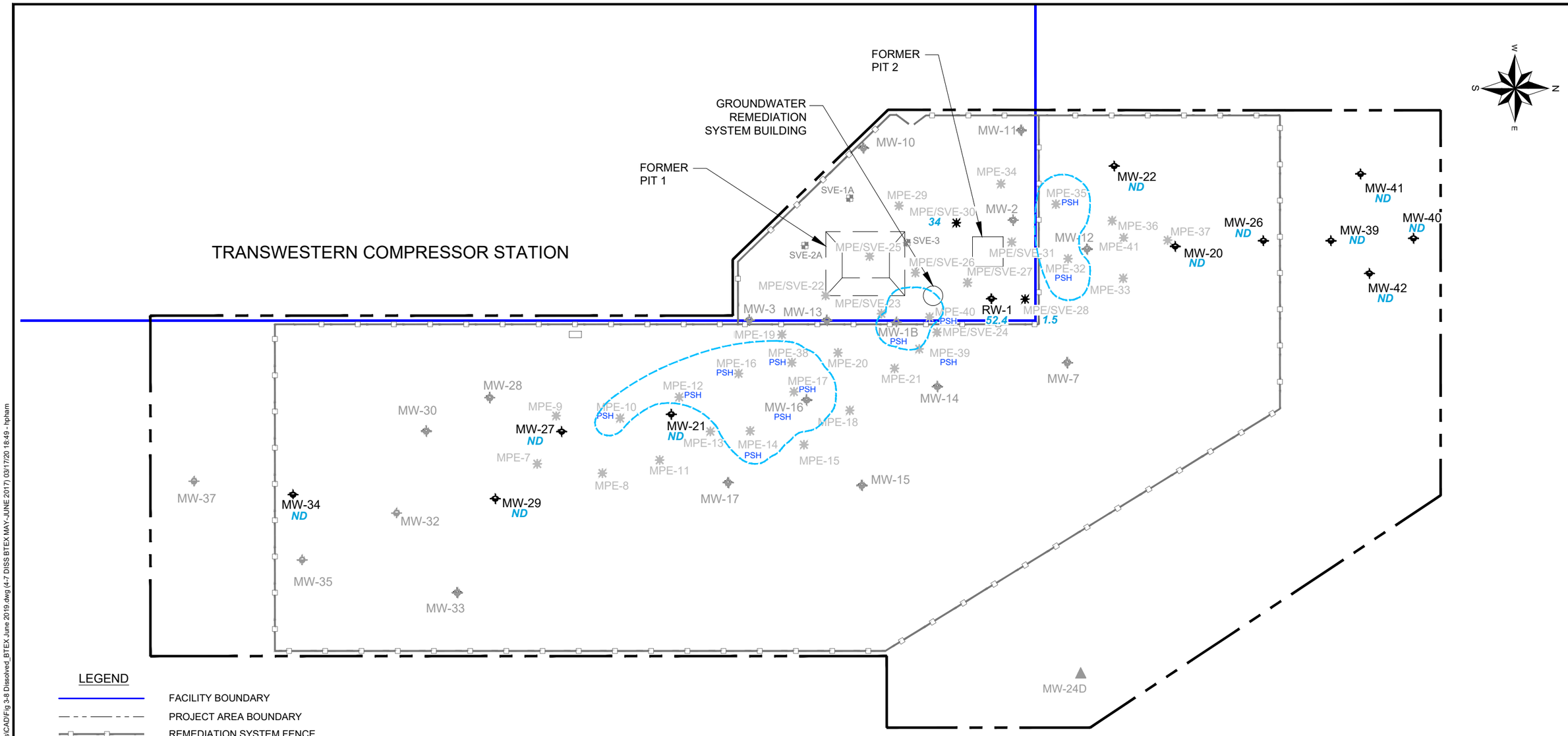

LEGEND

	FACILITY BOUNDARY
	PROJECT AREA BOUNDARY
	REMEDIATION SYSTEM FENCE
MW-37	MONITORING WELL
MPE-31	MULTIPHASE EXTRACTION WELL
MW-30	MONITORING WELL (NOT SAMPLED)
SVE-1A	SVE WELL (NOT SAMPLED)
MPE-15	MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
MPE/SVE-27	MPE WELL CO-LOCATED WITH SVE WELL
MPE/SVE-26	MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
MW-24D	DEEP WELL IN DEEP AQUIFER (NOT SAMPLED)
	APPROXIMATE HORIZONTAL EXTENT OF PSH
52.4	BTEX CONCENTRATION (ug/L)
ND	NOT DETECTED
PSH	PSH DETECTED

SOURCE: CYPRESS ENGINEERING SERVICES INC.

NOTES:
- BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES.
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN

1. SVE AND RW-1 WELLS ARE LOCATED ABOVE THE UPPER MOST AQUIFER AND SHOWN FOR ILLUSTRATION PURPOSE.
2. RESULTS SHOWN FOR MPE/SVE CO-LOCATED WELLS ARE ASSOCIATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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DISTRIBUTION OF DISSOLVED BTEX UPPERMOST AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	03/16/2020	3-8

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-8 Dissolved_BTEX_June 2019.dwg (4-7 DISS BTEX MAY-JUNE 2017) 03/17/20 18:49 - hpham

Received by OCD: 10/21/2022 8:37:26 AM

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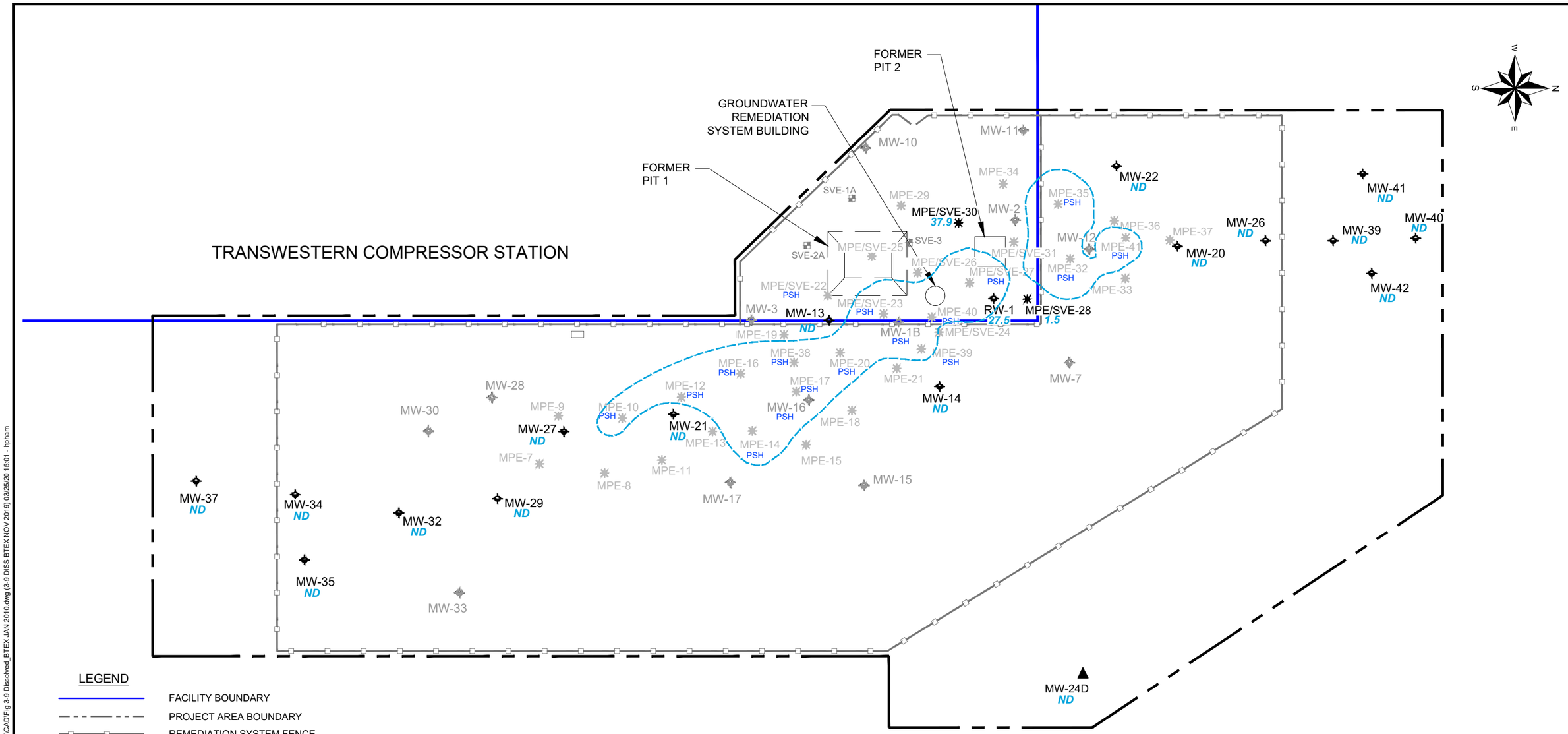

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL
- MPE-31 — MULTIPHASE EXTRACTION WELL
- MW-30 — MONITORING WELL (NOT SAMPLED)
- SVE-1A — SVE WELL (NOT SAMPLED)
- MPE-15 — MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- MPE/SVE-27 — MPE WELL CO-LOCATED WITH SVE WELL
- MPE/SVE-26 — MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
- MW-24D — DEEP WELL IN DEEP AQUIFER
- APPROXIMATE HORIZONTAL EXTENT OF PSH
- *37.9* — BTEX CONCENTRATION (ug/L)
- *ND* — NOT DETECTED
- PSH — PSH DETECTED

SOURCE: CYPRESS ENGINEERING SERVICES INC.

NOTES:
- BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES.
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.

1. SVE AND RW-1 WELLS ARE LOCATED ABOVE UPPER MOST AQUIFER AND SHOWN FOR ILLUSTRATION PURPOSE.
2. RESULTS SHOWN FOR MPE/SVE CO-LOCATED WITH SVE SAMPLES.
3. MW-27, MW-29, MW-32, MW-34, MW-35, AND MW-37 WERE SAMPLED IN NOVEMBER 2019.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

EARTHCON®

EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED BTEX UPPERMOST AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JM	3/16/2020	3-9

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-9 Dissolved_BTEX JAN 2010.dwg (3-9 DISS BTEX NOV 2019) 03/25/20 15:01 - hpham

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TRANSWESTERN COMPRESSOR STATION

Pit 1

Pit 2

MW-11
MW-10
MW-22 2.0
MW-41 1.1
SVE-1A
MPE-29
MPE-34
MPE-35
MW-2
MPE-36
MPE/SVE-30
MW-12
MPE-37
MW-40 <1.0
SVE-2A
SVE-3
MPE/SVE-31
MPE-41
MW-20 3.4
MW-26 42.0
MW-39 18.0
MPE/SVE-25
MPE-32
MW-42 1.0
MPE/SVE-26
MPE/SVE-27
MPE-33
MPE/SVE-22
MPE/SVE-23
MW-3
MPE-40
MPE/SVE-28
MW-13
MW-1B
MPE/SVE-24
MPE-19
MPE-39
MPE-20
MW-7
MPE-21
MPE-12
MPE-16
MW-14
MPE-9
MPE-17
MW-28
MW-16
MPE-18
MPE-10
MW-21
MPE-14
MW-30
MW-27
MPE-11
MPE-13
MPE-15
MPE-7
MPE-8
MW-37
MW-17
MW-15
MW-34
MW-29
MW-32
MW-35
MW-33
MW-24D

1,1-DCE Concentration (ug/L)

5 10 15 25 50 100 250 500 750 1000

SCALE

0 FT 75 FT 150 FT

Note: Plugged and abandoned monitoring/multi-phase extraction wells not shown.

LEGEND

- Facility Boundary
- Project Area Boundary
- Remediation System Fence
- MW-26 / 42 — Monitoring Well with Concentration (ug/L)
- MW-30 — Monitoring Well (Not Sampled/Not Analyzed)
- MPE-15 — Multi-Phase Extraction Well (Not Sampled/Not Analyzed)

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.2018005.00

EARTHCON

EarthCon Consultants Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

DISTRIBUTION OF
DISSOLVED 1,1-DCE IN THE
UPPERMOST AQUIFER
JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	10/19	3-10

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TRANSWESTERN COMPRESSOR STATION

Pit 1

Pit 2

MW-11
MW-10
MW-22 1.1
MW-41 1.1
SVE-1A
MPE-29
MPE-34
MPE-35
MW-2
MPE-36
MPE/SVE-30
MW-12
MPE-37
MW-40 <1.0
SVE-2A
SVE-3
MPE/SVE-31
MPE-41
MW-20 2.5
MW-26 45.0
MW-39 24.0
MPE/SVE-25
MPE-32
MW-42 1.4
MPE/SVE-26
MPE/SVE-27
MPE-33
MPE/SVE-22
MPE/SVE-23
MW-3
MPE-40
MPE/SVE-28
MW-13
MW-1B
MPE/SVE-24
MPE-19
MPE-39
MPE-20
MW-7
MPE-21
MPE-12
MPE-16
MW-14
MPE-9
MPE-17
MW-28
MW-16
MPE-18
MPE-10
MW-21
MPE-14
MW-30
MW-27
MPE-11
MPE-13
MPE-15
MPE-7
MPE-8
MW-37
MW-17
MW-15
MW-34
MW-29
MW-32
MW-35
MW-33
MW-24D

1,1-DCE Concentration (ug/L)

5 10 15 25 50 100 250 500 750 1000

SCALE

0 FT 75 FT 150 FT

Note: Plugged and abandoned monitoring/multi-phase extraction wells not shown.

LEGEND

- Facility Boundary
- Project Area Boundary
- Remediation System Fence

MW-26 42 — Monitoring Well with Concentration (ug/L)

MW-30 — Monitoring Well (Not Sampled/Not Analyzed)

MPE-15 — Multi-Phase Extraction Well (Not Sampled/Not Analyzed)

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJ. NO: 02.2018005.00

EARTHCON

EarthCon Consultants Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, Georgia 30062

DISTRIBUTION OF
DISSOLVED 1,1-DCE IN THE
UPPERMOST AQUIFER
NOV 2019/ JAN 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JM	3/6/20	3-11

APPENDICES

Appendix A

Copies of June 2019 and November 2019/January 2020, February 2020, March 2020 and April 2020 Field Notes

Received by OCD: 10/21/2022 8:37:26 AM

Location TWP Roswell Station Date 06/23/19

Project / Client GW Monitoring 2019

Earthcon By: CMS

Environmental & Geological Services

Inc. Page 1 OF 5

Calibrated YSI 556 MPS

Serial # 05F2274AL

Conductivity: Calitech 500 mL

1413 us/cm @ 25°C

Expires: 09/04/2019

Initial: 1.437 MS/cm @ 0930

Final: 1.413 mS/cm @ @ 0930 @ 22.10°C

PH 7.0: Calitech 500 mL PH 7.0

25°C Expires: 06/23/19

Initial: 7.78 pH @ 22.10°C

Final: 7.00 pH @ 22.10°C

PH 4.0: Calitech 500 mL pH 4.0

@ 25°C Expires: 07/03/19

Initial: 3.34 pH @ 22.05°C

Final: 4.00 pH @ 22.06°C

ORP: Aurical 500 mL ORP

100 mV Expires: 09/17/19

Initial: 151.0 mV ORP @ 21.90°C

Final: 100.0 mV ORP @ 21.97°C

D.O: 8.30 mg/L ambient air

Initial: 5.32 mg/L @ 22.10°C

Final: 8.31 mg/L @ 22.10°C

TWP Roswell Station 9 Date 06/23/19

Project / Client GW Monitoring 2019

Earthcon Consultants Inc. By: CMS

Page 2 of 5

Well #	DNAPL	DTW	T.D.	Thickness
MW-37	Ø	59.54	—	—
MW-34	Ø	64.51	75	5.93
MW-35	Ø	61.63	76.70	—
MW-32	Ø	67.84'	—	—
MW-30	Ø	67.62'	—	—
MW-29	Ø	69.99	71.390	1.87 ft.
MW-28	Ø	70.68	—	—
MPE-7	Ø	68.53	—	—
MPE-8	Ø	56.48'	—	—
MW-27	Ø	69.43'	75.0	2.67
MPE-9	Ø	68.75	—	—
MW-33	Ø	65.95'	—	—
MPE-11	Ø	64.48'	—	—
MPE-10	66.50	68.90	* 2.4' NAPL *	
MW-17	Ø	63.05	—	—
MPE-13	Ø	65.55	Strong odor on probe	
MW-21	Ø	66.60	TS	4.03
MPE-12	65.75	66.17	* 0.42' NAPL	
MPE-14	65.42	66.08	* 0.66' NAPL	
MPE-16	67.84	68.85	* 1.01' NAPL	
MPE-15	Ø	64.50'	—	—

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Location Twp Rosa Station 9 Date 06/24/19

Project / Client GW Monitoring 2019

Easting By: OMS Page 4 of 5

Well	Depth	DTW	TD	Comments
MPE-17	66.90	67.10		* 0.2' Napl
MW-16	66.96	68.40		* 1.44' Napl
MPE-32	67.58	69.54		* 1.96 Napl
MPE-19	Ø	66.33'	—	— —
MW-19	Ø	63.42	—	— —
MW-15	Ø	61.14'	—	— —
MPE-20	Ø	64.23	64.0	Sheen
MPE-21	Ø	60.45'	—	— —
MPE 39 20	60.78	60.85'		* 0.07' Napl
SVE 24	Ø	Ø	28.60	— —
MPE-24	Ø	Ø	59.27'	— —
MW-14	Ø	55.88	—	— —
MW-7	Ø	62.93'	—	— —
MPE-30	57.03	59.30'		* 2.27' Napl *
MPE 33	Ø	52.67'	—	— —
MW-26	Ø	49.77	65.0	7.31 —
MW 20	Ø	52.0	64.0	5.76 —
MPE 37	Ø	51.55	—	— —
MPE 41	* Coil not read -			Coil not pull pump *
MW-12	Ø	55.38	—	— —
MPE 36	Ø	53.97	—	— —
MPE-35	58.14	59.15		* 1.01' Napl *

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Location Twp Rosa Station 9 Date 06/24/19

Project / Client GW Monitoring 2019

Easting By: OMS Page 4 of 5

Well	Depth	DTW	T.D.	Sew Sheen
MW-22	Ø	57.35	64.95	Slight
MW-3	Ø	63.45'	—	—
SVE 22	32.74'	32.75		* 0.01' Napl
MPE-22	Ø	68.16	—	— —
MPE-26	Ø	62.65'	—	— —
SVE-26	Ø	Ø	32.60	
SVE 23	* Snake in well Would not *			
MPE 23	63.55	63.56		* 0.01' Napl *
MW-13	Ø	65.15	—	— —
MW-18	61.27'	63.18		* 0.91' Napl *
MPE-40	61.37	63.35		* 1.98' Napl *
SVE-14	Ø	Ø	29.60	Dry
SVE-20	Ø	Ø	29.50	Dry
SVE-3	Ø	Ø	66.45	Dry
MW-24D	Ø	61.91	—	
MW-42	Ø	54.29'	75.85	10.59
MW-39	Ø	48.97	70.11	10.14
MW-40	Ø	53.20	70.13	8.12
MW-41	Ø	56.85	70.06	6.34
MW-10	Ø	69.85'	—	—
MW-11	Ø	61.15'	—	—
MW-2	Ø	59.78	—	—

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Location TWP Roswell Station 9 Date 06/24/19

Project / Client SW Monitoring 2019

Enviro Eng: Chris Bye Type 5

Well	Phase	DTW	TD	SCV	Remarks
MPE 31	Ø	63.98	—	—	—
SVE 31	Ø	Ø	35.13	—	—
MPE 28	Ø	56.69	—	—	—
SVE 29	Ø	28.97	34.80	3.79	
RW-1	Ø	53.57	4165	15.2	4" well
SVE-30	Ø	42.52	44.0	0.71	
MPE 33	Ø	66.03	—	—	—
MPE 34	Ø	68.30	—	—	—
MPE 27	Ø	Ø Sheen in well			
MPE 27	Ø	52.95	—	—	—
MPE 34	Ø	64.75			

PL TX, NM

Date

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GROUNDWATER SAMPLING LOG

SITE NAME: Transwestern Roswell Station	SITE LOCATION: 6381 North Main Street Roswell NM
WELL NO: MW-34	SAMPLE ID: MW-34
DATE: 06/24/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 49 feet to 79 feet	STATIC DEPTH TO WATER (feet): 64.51	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

Top Pump 67.13' = (67.13 feet – 64.51 = 11.24 feet) X 0.16 gallons/foot = 1.79 gallons

3 WELL VOLUMES = 75.75 gallons 5.39 Gallons = 3CV

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0907	PURGING ENDED AT: 0936	TOTAL VOLUME PURGED (gallons): 5.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0907	0	Initial	0.20	64.51	7.07	21.32	3.449	6.81	-35.3	Top Clear	None
0915	1.0	1.0	0.20	—	6.88	19.77	3.437	0.77	-27.6	Turbid	None
0920	2.0	2.0	0.20	—	6.85	19.79	3.438	0.62	-25.5	"	"
0926	3.0	3.0	0.20	—	6.82	19.88	3.431	0.58	-24.2	"	"
0931	4.0	4.0	0.20	—	6.81	19.93	3.428	0.52	-23.2	"	"
0936	5.50	5.50	0.20	—	6.79	19.92	3.426	0.47	-22.0	"	"

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Burnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0937	SAMPLING ENDED AT: 0942
PUMP OR TUBING DEPTH IN WELL (feet): 67.0 / 67.13'	TUBING MATERIAL CODE: PP PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-34	3	CG	40mL	HCl	120mL	6.79	BTEX	BP	0.20
MW-34 Duplicate	3	CG	40mL	HCl	120mL	6.79	BTEX 8260	BP	0.20

REMARKS: YSI 556 MPS Serial # 05F2274AL
I.P. Solonist Serial # 1212-100

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; (PP) = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station # 9 | SITE LOCATION: 6381 N Main St. Roswell, NM 88201

WELL NO: MW-29 | SAMPLE ID: MW-29 | DATE: 06/24/19

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): 1/2" | WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet | STATIC DEPTH TO WATER (feet): 69.99 | PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (feet – 3.91 feet) X 0.16 gallons/foot = 0.62 gallons

3 WELL VOLUMES = 73.90 gallons 69.99 0.96

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable) 3CV = 1.87 = gallons + (gallons/foot X feet) + 11:00 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: 10:02 | PURGING ENDED AT: 10:07 | TOTAL VOLUME PURGED (gallons): 2 Gallon

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:05	Initial	0	0.045	69.99	6.94	21.17	2.987	6.77	-31.6 / -46.2	Clear	None
10:20	0.50	0.50	0.045	—	6.73	20.58	3.142	6.78	-18.1 / -42.6	Clear	None
10:31	1.0	1.0	0.045	—	6.69	20.71	3.197	1.16	-13.5 / -130.2	"	"
10:44	1.5	1.5	0.045	—	6.70	20.96	3.208	0.84	-16.1 / -141.0	"	"
11:00	2.00	2.0	0.045	—	6.70	21.02	3.209	0.79	-16.1 / -142.4	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Burchill, PP | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 11:00 | SAMPLING ENDED AT: 11:02

PUMP OR TUBING DEPTH IN WELL (feet): | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y N | FILTER SIZE: ____ µm | Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	GG	40mL	HCL	120 mL	6.70	BTEX/8260	BP	0.045

REMARKS: I.P. Solonist Serial # 122-100

MATERIAL CODES: (AG) = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N Main St. Roswell, NM 88201		
WELL NO: MW-29	SAMPLE ID: MW-29	DATE: 06/24/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet	STATIC DEPTH TO WATER (feet): 69.99	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (feet – 3.91 feet) X 0.16 gallons/foot = 0.62 gallons

3 WELL VOLUMES = 73.90 gallons 69.99 0.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 3EV = 1.87 = gallons + (gallons/foot X feet) + 11.00 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:02	PURGING ENDED AT: 10:02	TOTAL VOLUME PURGED (gallons): 2 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:05	Initial	0	0.045	69.99	6.94	21.17	2.987	6.77	31.6 / -44.2	Clear	None
10:20	0.50	0.50	0.045	—	6.73	20.58	3.142	6.73	-18.1 / -97.6	Clear	None
10:31	1.0	1.0	0.045	—	6.69	20.71	3.197	1.16	-15.9 / -130.2	"	"
10:44	1.5	1.5	0.045	—	6.70	20.96	3.208	0.84	-16.1 / -141.0	"	"
11:00	2.00	2.0	0.045	—	6.70	21.02	3.209	0.79	-16.1 / -142.4	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill, PP	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:00	SAMPLING ENDED AT: 11:02
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	GG	40mL	HCL	120 mL	6.70	BTEX/8260	BP	BP 0.045

REMARKS: I.P. Solonist Serial # 122-100

MATERIAL CODES: (AG) = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: Trap Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: Monitor Well 21	SAMPLE ID: MW-21	DATE: 06/24/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 64 feet to 74 feet	STATIC DEPTH TO WATER (feet): 66.60	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (75 feet − 66.60 84 feet) X 0.16 gallons/foot = 1.34 gallons

3 WELL VOLUMES = 4.03 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
68.21	68.21	11:05	11:40	4.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
11:05	0	Initial	0.125	66.60	6.76	20.76	3.184	6.49	-20.0/-103.4	Clear	None
11:13	1	1	0.125	—	6.67	20.38	3.156	6.66	-13.8/-114.0	Clear	None
11:20	2	2	0.125	—	6.68	20.40	3.156	6.68	-14.4/-115.6	"	"
11:30	3	3	0.125	—	6.67	20.68	3.165	6.67	-14.3/-108.2	"	"
11:40	4	4	0.125	—	6.68	20.75	3.168	1.66	-19.5/-110.8	"	Slight Sulfur

INSTRUMENTS USED: YSI 556 MPS Serial # 05F3274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton M Barnhill / PF		11:40	11:43

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
68.21	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-21	3	CG	40mL	HCl	120mL	6.68	BTEX 8260	BP	

REMARKS: Solonist I.D. = Serial # 122-100

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N Main ST. Roswell, NM 88201	
WELL NO: MW-22	SAMPLE ID: MW-22	DATE: 06/25/2019

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: 50 feet to 65 feet	STATIC DEPTH TO WATER (feet): 57.75	PURGE PUMP TYPE OR BAILER: Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.95 feet – 57.75 7.2' feet) X 0.16 gallons/foot = 1.15 gallons

3 WELL VOLUMES = 3.456 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0832	PURGING ENDED AT: 0842	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0832	Initial	0	0.25	57.75	7.45	19.41	3.692	6.58	-61.2/573	Brown	None
0835	1	1	0.25	—	7.13	19.04	3.669	6.61	-42.6/91.6	" "	"
0837	2	2	0.25	—	7.03	19.01	3.685	6.47	-35.9/94.3	Turbid	None
0840	3	3	0.25	—	6.96	18.98	3.686	6.74	-33.2/85.7	Turbid	None
0842	3.5	3.5	0.25	—	6.94	18.96	3.684	6.71	-32.2/96.6	Turbid	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill, GT	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0845	SAMPLING ENDED AT: 0847
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-22	3	CG	40mL	HCL	120 mL	6.94	VOC's 8260	B	0.25
MW-22	3	CG	40mL	HCL	120 mL	N/A	VOC's 8260	B	0.25
Equipment Rinsate @ 0825									

REMARKS: Placed purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-20	SAMPLE ID: MW-20	DATE: 06/25/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 46.8 feet to 61.8 feet	STATIC DEPTH TO WATER (feet): 52.0	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.0 feet – 52.0 feet) X 0.16 gallons/foot = 1.92 gallons

3 WELL VOLUMES = 5.76 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
56.45	56.45	0855	0917	6 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0855	Initial	0	0.285	52.0	6.85	19.23	3.750	6.63	-25.4 / 104.9	Brown Tan 6.10	None
0902	2	2	0.285	—	6.76	18.81	3.797	6.76	101.9	-20.3 / 103.7	
0908	4	4	0.285	—	6.76	18.90	3.797	6.76	-20.2 / 104.3	Clear	None
0917	6	6	0.285	—	6.85	20.17	3.717	6.48	-26.0 / 100.9	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial #05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton McBarnhill, PG		0917	0920

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
~~56~~ 56.45'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-20	3	CG	40mL	HCL	120 mL	6.85	8260 VOC's	BP	0.285

REMARKS: Placed Purged H_2O in On-Site DRUM

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; P = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME:	TWP Roswell Station #9	SITE LOCATION	6381 N. Main St. Roswell, NM 88201
WELL NO:	MW-26	SAMPLE ID:	MW-26
DATE:	06/25/19		

PURGING DATA

WELL DIAMETER (inches):	2"	TUBING DIAMETER (inches):	1/2"	WELL SCREEN INTERVAL DEPTH:	43 feet to 63 feet	STATIC DEPTH TO WATER (feet):	49.77	PURGE PUMP TYPE OR BAILER:	BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (65.0 feet − 49.77 (15.23) feet) X 0.16 gallons/foot = 2.43 gallons

3 WELL VOLUMES = 7.31 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	56.63'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	56.63'	PURGING INITIATED AT:	0947	PURGING ENDED AT:	10:03	TOTAL VOLUME PURGED (gallons):	7.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0947						19.14					
0940	Initial	0	0.40	49.77	6.91	21.42	3.764	5.25 7.15 - 28%	101.3	Clear	None
0943	2	2	0.40	—	6.87	18.71	3.755	7.38	-27.6/102.2	Clear	None
0948	4	4	0.40	—	6.75	18.85	3.768	6.80	-19.3/103.7	Clear	None
0953	6	6	0.40	—	6.77	18.86	3.740	6.76	-20.4/105.1	Clear	None
10:03	7.50	7.50	0.40	—	6.76	18.90	3.741	6.76	-20.0/104.4	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F227AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	Clayton M Barnhill, PE	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	10:03	SAMPLING ENDED AT:	10:05
PUMP OR TUBING DEPTH IN WELL (feet):	56.63'	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-26	3	CG	40mL	HCL	120mL	6.76	VOC's 8260	BP	0.40

REMARKS: Placed purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station # 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201	
WELL NO: MW-42	SAMPLE ID: MW-42	DATE: 06/25/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 54.29'	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.95 feet – 54.29' 21.66 feet) X 0.16 gallons/foot = 3.465 gallons

3 WELL VOLUMES = 10.39 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
64.03'	64.03'	10:25	10:56	10.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:25	Initial	0	0.40	54.29	6.94	18.93	3.789	5.27	-31.5/104.1	clear	None
10:30	2	2	0.40	—	6.82	18.85	3.770	4.52	-24.1/103.4	clear	None
10:35	4	4	0.40	—	6.79	18.89	3.759	4.36	-22.2/104.3	clear	None
10:42	6	6	0.40	—	6.80	18.87	3.747	4.40	-22.3/104.9	clear	None
10:47	8	8	0.40	—	6.79	18.93	4.137	4.10	-24.3/102.6	clear	None
10:56	10.50	10:50	0.40	—	6.78	19.01	~~3.738~~ 3.738	4.12	-21.3/105.7	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton M Barnhill II, PT		10:56	10:11:00

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-42	3	CG	40mL	HCl	120 mL	6.78	VOC's 8260	BP	0.40
MW-42 Duplicate	3	CG	40mL	HCl	120mL	6.78	VOC's 8260	BP	0.40

REMARKS: Placed purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; (CG = Clear Glass); (PE = Polyethylene); PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: Twp Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-40	SAMPLE ID: MW-40	DATE: 06/25/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 63 feet to 75 feet	STATIC DEPTH TO WATER (feet): 53.20	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.13 feet − 53.20' 16.93' feet) X 0.16 gallons/foot = 2.70 gallons

3 WELL VOLUMES = 8.12 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
62.31	62.31	15:10	15:37	8.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:10	Initial	0	0.286	53.20	7.25	20.62	3.758	4.98	-51.2/46.0	Clear	None
15:17	2	2	0.286	—	6.88	21.24	3.747	4.56	-26.3/83.7	Clear	None
15:22	4	4	0.286	—	6.82	19.94	3.720	5.19	-21.0/86.5	Clear	None
15:30	6	6	0.286	—	6.71	19.76	3.726	5.45	-15.6/86.4	Clear	None
15:37	8.25	8.25	0.286	—	6.73	19.62	3.718	4.99	-15.5/84.0	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2" = 0.010); 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton M. Barnhill, PE		15:37	15:40

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
62.31'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-40	3	CG	40mL	HCL	120 mL	6.73	VOC's 8260	BP	0.286

REMARKS: Placed purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; (CG = Clear Glass); (PE = Polyethylene); PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO: MW-41	SAMPLE ID: MW-41
	DATE: 06/25/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 56.85'	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.06' feet – 56.85' 13.21 feet) X 0.16 gallons/foot = 2.11 gallons

3 WELL VOLUMES = 6.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.49	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.49	PURGING INITIATED AT: 15:58	PURGING ENDED AT: 16:25	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:58	Initial	0	0.25	56.85	7.11	20.81	3.632	8.32	-42.1/~~-10.0~~	Clear	None
16:06	2	2	0.25	~	6.77	20.17	3.629	7.08	-21.2/~~77.6~~	Clear	None
16:15	4	4	0.25	~	6.74	20.65	3.645	7.02	-19.2/81.2	Clear	None
16:23	6	6	0.25	~	6.74	20.03	3.631	7.12	-18.9/82.9	Clear	None
16:25	6.50	6.50	0.25	~	6.74	20.02	3.635	7.14	-18.6/83.2	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F3274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:25	SAMPLING ENDED AT: 16:30
PUMP OR TUBING DEPTH IN WELL (feet): 58.49'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-41	3	CG	40mL	HCL	120 mL	6.74	VOC's 8260	BP	0.25

REMARKS: Placed Purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: SVE-30	SAMPLE ID: SVE-30	DATE: 06/26/2019	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 42.52	PURGE PUMP TYPE OR BAILER

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (44.0 feet – 42.52 1.48 feet) X 0.16 gallons/foot = 0.23 gallons

3 WELL VOLUMES = 0.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
				42.52							

No Parameters Taken
Low well Column of water
Sampled Immediately.

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton M Barnhill / CMB		12:45	12:50

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SVE-30	3	CG	40mL	HCL	120mL	N/A	8260 VOCs	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME:	Twp Roswell Station #9	SITE LOCATION:	6381 N. Main St. Roswell, NM 88201
WELL NO:	SVE -28	SAMPLE ID:	SVE -28
		DATE:	06/26/2019

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2"			28.97	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (34.80 feet – 28.97 feet) X 0.16 gallons/foot = 0.93 gallons

3 WELL VOLUMES = 2.79 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
12:25	0	0		28.97		-					
	Well Bails Down – Quickly										
	No Parameters Taken										

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton McBride/Ensolum		12:25	12:30

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SVE 28	3	CG	40mL	HCL	120mL	N/A	8260 VOC's	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: RW-1	SAMPLE ID: RW-1	DATE: 06/26/19	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.57	PURGE PUMP TYPE OR BAILER: 3.5' x 30 poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (41.65 feet – 33.57' feet) X 0.65 gallons/foot = 5.25 gallons

3 WELL VOLUMES = 15.75 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:45	PURGING ENDED AT: 12:11	TOTAL VOLUME PURGED (gallons): 16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
11:45	Initial	0	1.0	33.57	7.19	23.24	0.530	2.23	-46.6 / 163.1	Clear	Strong
12:00	5	5	1.0	—	6.84	22.21	1.767	2.09	-25.7 / 224.1	Black	Strong
12:05	10	10	1.0	—	6.86	22.28	3.178	1.85	-26.2 / 305.8	"	"
12:10	15	15	1.0	—	6.83	21.93	3.433	0.76	-24.8 / 326.7	Black	Strong
12:11	16	16	1.0	—	6.83	21.91	3.439	0.65	-24.7 / -329.2	Black	Strong

INSTRUMENTS USED: YSI 556 MPS Serial # 05F227YAL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:11	SAMPLING ENDED AT: 12:15
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
RW-1	3	CG	40mL	HCL	120 mL	6.53	8260 VOC'S	B	1.0
RW-1 Equipment Bailer Rinsate @11:45	3	CG	40mL	HCL	120 mL	N/A	8260 VOC's	B	1.0

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: Octr

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N Main St. Roswell, NM 88201
WELL NO: MW-39	SAMPLE ID: MW-39
DATE: 06/26/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 48.97	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.11 feet – 48.97' feet) X 0.16 gallons/foot = 3.38 gallons

3 WELL VOLUMES = 10.14 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.0'	PURGING INITIATED AT: 10:45	PURGING ENDED AT: 11:16	TOTAL VOLUME PURGED (gallons): 10.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:45	Initial	0	0.285	48.97'	6.83	19.97	3.710	8.11	-24.8/85.4	Grey Turbid	None
10:50	2	2	0.285	—	6.68	19.12	3.714	7.47	-15.6/93.9	Turbid	None
10:57	4	4	0.285	—	6.63	19.12	3.710	7.32	-11.4/98.4	Clear	None
11:04	6	6	0.285	—	6.59	19.12	3.732	6.36	-9.1/103.4	Clear	None
11:11	8	8	0.285	—	6.59	19.23	3.720	5.80	-9.1/104.5	clear	None
11:16	10.25	10.25	0.285	—	6.67	19.03	3.715	4.64	-13.2/101.3	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial #05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2") = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:16	SAMPLING ENDED AT: 11:19
PUMP OR TUBING DEPTH IN WELL (feet): 64.0'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-39	3	CG	40mL	HCl	120mL	6.67	8260 VOC's	BP	0.285
MW-39 Duplicate	3	CG	40mL	HCl	120 mL	6.67	VOC's 8260	BP	0.285

REMARKS: Placed Purge H2O in on-site Drums

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Jordon French
Mailing Address: 1880 West Oak Parkway #106
Marietta, Ga. 30062
Phone #: 770. 973. 2100 Ext. 2892
email or Fax#: Jfrench@earthcon.
QA/QC Package: JHaines@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Earth Con Trans Western Pipline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, PE
Sampler: Cm Barnhill PE
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF):

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	8260 BTEX
6/24/19	0937	H_2O	MW-34	3x 40mL VOAs	HCl									X			X
6/24/19	0937	H_2O	MW-34 Duplicate											X			X
6/24/19	11:00	H_2O	MW-29											X			X
6/24/19	11:40	H_2O	MW-21											X			X
6/25/19	0845	H_2O	MW-22											X			
6/25/19	0825	H_2O	MW-22 Boiler equipment Rinsate											X			
6/25/19	0917	H_2O	MW-20											X			
6/25/19	10:03	H_2O	MW-26											X			
6/25/19	10:56	H_2O	MW-42											X			
6/25/19	10:56	H_2O	MW-42 Duplicate											X			
6/25/19	15:37	H_2O	MW-40											X			
6/25/19	16:25	H_2O	MW-41											X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/26/19	1500					
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: ANY Questions? Please Call CmB @ 575.626.16[illegible]

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

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Chain-of-Custody Record

Client: EarthCon Consultants, Inc
ATTN: JORDON French
Mailing Address: 1880 West Oak Parkway #106
Marietta, GA 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: JFrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____
Project Name: EarthCon Transwestern Pipeline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, P.E.
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature:

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) Full List	8270 (Semi-VOA)	Air Bubbles (Y or N)
6/26/19	11:16	H_2O	MW-39	3x 40mL VOA's	HCl											X		
6/26/19	11:16	H_2O	MW-39 Duplicate													X		
6/26/19	12:11	H_2O	RW-1													X		
6/26/19	12:11	H_2O	RW-1 equipment rinsate Bailer													X		
6/26/19	12:25	H_2O	SVE-28															
6/26/19	12:45	H_2O	SVE-30															
			TRIP Blank	2x 40mL VOA's	HCl													

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/26/19	1500				
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: ANY Questions ? Please Call CMB @ 575.626.1615

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

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SHIPPER'S UPS ACCOUNT NO.: 1AF802

REFERENCE NUMBER: EarthCon Twp Roswell Station 9

NAME: CM Barnhill, PE — TELEPHONE: 575 626 1615

COMPANY: CMB Environmental & Geological Services Inc.

STREET ADDRESS: 115 E. College Blvd. #109

CITY AND STATE: Roswell, NM — ZIP CODE: 88201

2 DELIVERY TO

NAME: Sample Receiving — TELEPHONE: (505) 345-3975

COMPANY: Hall Environmental Analysis Lab — DEPT./FLR.

STREET ADDRESS: 4901 Hawkins NE — Residential Delivery ☐

CITY AND STATE: Albuquerque, NM — ZIP CODE: 87109

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1AF802

THIRD PARTY'S COMPANY NAME: Hall Environmental Analysis Lab

STREET ADDRESS: 4901 Hawkins NE

CITY AND STATE: Albuquerque NM — ZIP CODE: 87109

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Location TWP Roswell Station 9 Date 11/19/2019

Project / Client GW Monitoring 2019

EarthCon Consultants, Inc.

By: CMB Environmental & Geological Services, Inc. Page 1 of 1

Calibrated YST 556 MPS

Serial # 05F2274

Conductivity @ 12:15 hr. Calitech 500mL @ Conductivity 1413 µs/cm @ 25°C Expires 09/04/2019

Initial @ 12:15 1.457 Ms/cm @ 17.66°C

Final: 1413 µS/cm @ 17.85°C

pH 7.0 Calitech 500mL pH 7.0 @ 25°C Expires: 04/23/19

Initial: @ 12:18 hr 8.50 @ 17.18°C

Final: 7.00 @ 17.19°C

pH 4.0: Calitech 500mL pH 4.0 @ 25°C Expires: 07/05/2019

Initial: @ 12:20 hr 4.75 @ 17.19°C

Final: 4.00 pH @ 17.23 °C

ORP: Aurical 500mL ORP 100 mV @ 25°C Expires: 09/17/2019

Initial @ 12:25 314.8 ORP @ 17.28°C

Final: 100.2 @ 17.34°C

D.O: 8.30 mg/L in ambient air

Initial: @ 12:30 11.92 mg/L @ 15.93°C

Final: 8.30 mg/L @ 16.11°C

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Location Twp Roswell station 9 Date 11/19/2019

Project / Client GW Monitoring 2019

EarthCon Consultants, Inc. By: CMB

Environmental & Geological Services, Inc

Page 2 of 1

Arrive on site @ 0900 hr

Sunny 44°F

Well	DTW	DTW	T.D.	3 Cy gallons	Remarks
MW-37	Ø	59.85'	69.61	4.68 gal	2" well with BP
MW-34	Ø	64.69'	75.75	5.31	2" MW with BP
MW-35	Ø	62.21	74.71	6.96	2" MW with BP
MW-33	Ø	65.95'	—	—	2" BP in well
MW-32	Ø	67.76'	74.20	3.09	2" BP in well
MW-30	Ø	67.59	—	—	2" BP in well
MW-29	Ø	70.0	73.90	1.87	2" MW with B.P.
MPE-7	Ø	68.40'	—	—	4" MPE well
MW-28	Ø	70.53'	—	—	2" BP in MW
MPE-9	Ø	68.84'	—	—	4" MPE well
MW-27	Ø	69.47'	75.0'	2.65	2" MW
MPE-8	Ø	67.10'	—	—	4" MPE well
MPE-11	Ø	64.89'	—	—	4" MPE well
MPE-10	66.91	66.92	* 0.01'	NAPL	X 4" MPE well
MW-21	Ø	66.98	75.0'	3.84	2" MW with BP

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Location Twp Roswell Sta. 9 Date 01/05/2020
Project / Client GW Monitoring 2019
Earth Cov Consultants Inc.
By: CMB Environmental & Geological Services, Inc.
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Well #	DNAPL	DTW	T.D.	3 cv gallons	Remarks
SVE-3	∅	∅	61.65'	—	2" SVE well
SVE-1A	∅	∅	29.61'	—	2" SVE well
SVE-2A	∅	∅	29.60'	—	2" SVE well.
MW-11	∅	65.25'	—	—	2" SVE well
MW-10	∅	69.91'	—	—	2" MW
MW-3	∅	67.55'	—	—	2" MW
MW-13	∅	65.05' ~~70.40~~		3.34	2" BP in well
MPE-34	∅	64.70'	—	—	4" MPE well
MPE-29	∅	68.31	—	—	4" MPE well
MPE-30	∅	66.08'	—	—	4" MPE well
SVE-30	∅	42.45'	44.05	0.768	2" SVE well
* 1.6' X 0.16 = 0.256 X 3 = 0.768.					
MPE-26	∅	65.53'	—	—	4 in MPE well
SVE-26	∅	∅	32.60'	—	2" SVE well
MPE-27	63.61	64.85'	—	—	4" MPE well w/pump
64.85 - 6361 = 1.24' NAPL Thickness					
SVE-27	∅	34.05	34.05	—	2" SVE well

Location Twp Roswell Sta. 9 Date 01/05/2020
Project / Client GW Monitoring 2019
Earth Cov Consultants Inc.
By: CMB Environmental & Geological Services Inc Page 4 of 7

Well	DNAPL	DTW	TD	3 cv gallons	Remarks
* RW-1	∅	33.38'	47.61'	2.75	4" MW
47.61' - 33.38 = 14.23' X 0.65 = 9.25					
~~SVE-3~~					
MPE-28	∅	56.90'	—	—	4" MPE well
* SVE-28	∅	28.81'	34.85	2.90	2" SVE well
34.85' - 28.81' = 6.04' X 0.16 = 0.964					
MPE-31	∅	64.0	—	—	4" MPE well w/pump
SVE-31	∅	∅	33.0'	—	2" SVE well
MW-2	∅	59.88	—	—	2" MW
MPE-25	∅	68.05'	—	—	4" MPE well
SVE-25	∅	∅	32.70	—	2" SVE well
MPE-22	∅	68.19	—	—	4" MPE well
SVE-22	∅	∅	33.08'	—	2" SVE well
MPE-23	∅	63.55'	—	—	4" MPE well w/pump
SVE-23	33.10	33.75	—	—	2" SVE well
33.75 - 33.10 = 0.65' Black oily NAPL					
MW-18	61.60'	61.95'	—	—	2" MW (Gold color)
61.95 - 61.60 = 0.35' NAPL					
MPE-40	61.63	64.45	—	—	4" well 2" pump
64.45 - 61.45 = 2.8' Gold NAPL pipeline condensate					

Rite in the Rain

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Location TWP Roswell Sta. 9 Date 01/06/2020

Project / Client GW Monitoring 2019

By: CMB Environmental & Geological Services Inc

Well	Dtw	DTW	TD	3 CV gallons	Remarks
MPE-24	Ø	59.60	—	—	4" MPE well w/pump
SVE-24	Ø	Ø	28.58'	—	2" SVE well
MW-14	Ø	55.95	64.50'		2" MW with/BP
MW-7	Ø	65.10'	—	—	2" MW
MW-15	Ø	61.18'	—	—	2" MW BP in well
MW-17	Ø	63.0	—	—	2" MW w/BP
MPE-15	Ø	64.58'	—	—	4" MPE well
MPE-18	Ø	63.51'	—	—	4" MPE well
MPE-12	65.71'	66.38'	—	—	4" MPE well
66.38' - 65.71' = 0.67' NAPL Thickness					
MPE-13	Ø	65.65'	—	—	4" MPE well w/Pump
Pulled pump To gauge MPE-13					
MPE-14	65.48'	66.30'	—	—	4" MPE well w/pump
66.30' - 65.48 = 0.82' NAPL Thickness					
MPE-16	67.75'	69.75'	—	—	4" MPE w/pump
Pulled pump To Gauge MPE-16					
2.0' NAPL Thickness 69.75 - 67.75 = 2.0					
MPE-19	Ø	66.40'	—	—	4" MPE well

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Location TWP Roswell Station 9 Date 01/06/2020

Project / Client GW Monitoring 2019

By: CMB Environmental & Geological Service Inc

Well	Dtw	DTW	TD	3 CV gallons	Remarks
MPE-38	67.68'	69.41	—	—	4" MPE well w/pump
69.41' - 67.68' = 1.73' NAPL Thickness					
MPE-17	67.0	67.15'	—	—	4" MPE well w/pump
67.15' - 67.0 = 0.15' NAPL Thickness					
MW-16	68.85	68.90	—	—	2" MW
Absorbent Sock in Well — Pulled Sock to gauge well					
68.90' - 68.85 = 0.05' NAPL thickness. Changed absorbent sock.					
MPE-20	64.38	64.50'	—	—	4" MPE well w/pump
64.50' - 64.38 = 0.12' NAPL Thickness					
MPE-21	Ø	66.90'	—	—	4" MPE w/pump
Pulled pump MPE-21 To gauge well.					
MPE-39	61.10'	61.25'	—	—	4" MPE w/pump
61.25 - 61.10 = 0.15' NAPL thickness					

Rita in the Rain

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Location Tap Roswell Sta. 9 Date 01/06/2022

Project / Client GW Monitoring 2019

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Well #	Diagram	DTW	T.D.	3 CV gallons	Remarks
MPE-32	57.70'	59.20'	—	—	4" MPE w/pump
59.20' - 57.70' = 1.5' NAPL Thickness					
MW-12	Ø	56.0'	—	—	2" MW
MPE-41	56.50'	57.75'	—	—	4" MPE w/Pump
57.75 - 56.50 = 1.25' NAPL Thickness					
MPE-33	Ø	53.05'	—	—	4" MPE
MPE-36	Ø	54.62'	—	—	4" MPE well
MPE-35	58.50	60.22'	—	—	4" MPE well
60.22' - 58.50' = 1.72' NAPL Thickness					
MW-22	Ø	58.01	64.81	3.26	2" MW
MPE-37	Ø	52.22'	—	—	4" MPE
MW-20	Ø	52.45	64.0	~~5.54~~	2" MW w/BP
MW-26	Ø	50.10'	65.0	7.15	2" MW w/BP
MW-14	Ø	55.95	64.5	4.10	2" MW w/BP
MW-240	Ø	61.90	180.0	230.3	4" MW
MW-39	Ø	49.40	70.11		2" MW
MW 42	Ø	55.58	75.95	~~75.95~~ 9.47	2" MW
MW-40	Ø	54.30	70.13	7.59	2" MW
MW-41	Ø	57.20	70.06	6.17	2" MW

Location _____ Date _____

Project / Client _____

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Rite in the Rain

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Bisque II Station 9	SITE LOCATION: TWP – 6381 N. Main St. Roswell NM 88201		
WELL NO.: MW-13	SAMPLE ID.: MW-13	DATE: 01/05/2022	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 57 feet to 72 feet	STATIC DEPTH TO WATER (feet): 65.05	PURGE PUMP TYPE OR BAILER: BP – 1.5" x 3' Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (72.0 feet – 65.05 = 6.95 feet) X 0.16 gallons/foot = 1.112 gallons

3 WELL VOLUMES = 3.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1600	PURGING ENDED AT: 1620	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
16:00	Initial	0	0.25	65.05	6.06	18.16	3.607	1.80	185.0/93.3	Brown	None
16:10	1	1	0.25	–	6.10	19.11	3.712	2.62	135.7/-49.4	Turbid	None
16:15	2	2	0.25	–	6.46	20.03	3.710	2.63	125.9/-159.4	"	"
16:20	3.50	3.5	0.25	–	6.93	19.53	3.724	3.12	115.2/-138.2	"	"

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McCorkle / Ensolum	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1620	SAMPLING ENDED AT: 1625
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-13	3	CG	40mL	HCL	120 mL	6.93	BTEX 8260	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO.: MW-14	SAMPLE ID: MW-14
DATE: 01/07/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 49.5 feet to 64.5 feet	STATIC DEPTH TO WATER (feet): 55.95	PURGE PUMP TYPE OR BAILER: Dedicated ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.5 feet – 55.95 = 8.55 feet) X 0.16 gallons/foot = 1.368 gallons

3 WELL VOLUMES = 4.10 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.85	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.85	PURGING INITIATED AT: 9:05	PURGING ENDED AT: 0940	TOTAL VOLUME PURGED (gallons): 4.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0907	Initial	0	0.14	56.95	6.29	18.17	3.590	3.03	106.4/-191.2	Clear	None
0915	1	1	0.14	—	6.78	18.91	3.604	2.75	117.9/-189.0	Clear	None
0922	2	2	0.14	—	6.81	18.83	3.601	2.39	117.3/-188.5	Clear	None
0929	3	3	0.14	—	6.94	18.59	3.590	2.40	113.2/-189.7	Clear	None
0940	4.25	4.25	0.14	—	6.96	18.52	3.589	2.58	113.4/-188.7	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / EnB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0941	SAMPLING ENDED AT: 0945
PUMP OR TUBING DEPTH IN WELL (feet): 57.85	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-14	3	CG	40mL	HCl	120mL	6.96	8260 BTEX	BP	0.14
MW-14 Duplicate	3	CG	40mL	HCl	120mL	6.96	8260 BTEX	BP	0.14

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: MW-20	SAMPLE ID: MW-20	DATE: 01/06/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 46.8 feet to 61.8 feet	STATIC DEPTH TO WATER (feet): 52.45	PURGE PUMP TYPE OR BAILER: dedicated B.P.

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.0 feet − 52.45 = 11.55 (feet) X 0.16 gallons/foot = 1.848 gallons

3 WELL VOLUMES = 5.54 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.45	PURGING INITIATED AT: 15:06	PURGING ENDED AT: 15:20	TOTAL VOLUME PURGED (gallons): 5.75

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:00	Initial	0	0.20	52.45	6.97	18.21	4.010	5.00	123.7/113.8	Tan/Brn	None
15:05	1	1	0.20	/	6.78	18.25	4.009	5.23	117.6/114.9	Clear	None
15:08	2	2	0.20	/	6.76	18.26	4.005	5.42	111.9/157.5	Clear	None
15:11	3	3	0.20	/	6.93	17.65	3.733	5.85	118.0/188.9	Clear	None
15:15	4	4	0.20	/	6.81	17.50	3.745	5.29	116.6/201	Clear	None
15:20	5.75	5.75	0.20	/	6.92	17.55	3.738	5.20	114.1/177.5	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:21	SAMPLING ENDED AT: 15:25
PUMP OR TUBING DEPTH IN WELL (feet): 56.45	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (displaced)	DUPLICATE (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-20	3	CG	40mL	HCl	120mL	6.92	8260 Full List	BP	0.20
MW-20 Duplicate	3	CG	40mL	HCl	120mL	6.92	8260 Full List	BP	0.20

REMARKS: Placed Purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; (CG = Clear Glass); (PE = Polyethylene); PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: Tap Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO: MW-21	SAMPLE ID: MW-21
DATE: 11/26/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 54 feet to 74 feet	STATIC DEPTH TO WATER (feet): 66.98	PURGE PUMP TYPE OR BAILER: Dedicated BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (75 feet − 66.98 feet) X 0.16 gallons/foot = 1.28 gallons

3 WELL VOLUMES = 3.84 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 68.21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 68.21	PURGING INITIATED AT: 10:42	PURGING ENDED AT: 11:00	TOTAL VOLUME PURGED (gallons): 4 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmho/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL pH (mV)	COLOR (describe)	ODOR (describe)
10:45	Initial	0		66.98	6.16	17.76	3.270	7.74	142.6/-55.2	Clear	
10:48	1	1		—	6.17	18.00	3.264	2.06	129.5/-135.4	Clear	None
10:51	2	2		—	6.18	18.24	3.251	2.02	86.3/-137.1	Clear	None
10:55	3	3		—	6.21	18.33	3.248	2.00	85.4/-130.5	Clear	None
11:00	4	4		—	6.18	18.32	3.248	1.96	86.6/-128.3	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 227AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Peyton McBarnhill / CNB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:01	SAMPLING ENDED AT: 11:05
PUMP OR TUBING DEPTH IN WELL (feet): 68.21	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (Replaced) DUPLICATE Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
MW-21	3	CG	40mL	HCL	120 mL		BTEX 8260	BP		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TNP Roswell Station 9	SITE LOCATION: 6381 North Main St. Roswell, NM 88201		
WELL NO: MW-22	SAMPLE ID: MW-29	DATE: 09/06/2022	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: 50 feet to 65 feet	STATIC DEPTH TO WATER (feet): 58.01'	PURGE PUMP TYPE OR BAILER: 1.5" Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.81 feet – 58.01 = 6.8 feet) X 0.16 gallons/foot = 1.088 gallons

3 WELL VOLUMES = 3.26 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 14:18	PURGING ENDED AT: 14:35	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:18	Initial	0	0.25	58.01	7.46	18.87	3.940	6.57	-68.1/55.6	Tuned Brown	None
14:21	1	1	0.25	—	7.46	18.68	3.923	6.34	-91.4/52.5	Tuned Brown	None
14:24	2	2	0.25	—	7.39	18.54	3.914	5.97	-89.8/53.4	Tan/Turbid	None
14:28	3	3	0.25	—	7.33	18.46	3.913	5.98	-88.3/60.1	Tan/Turbid	None
14:30	3.50	3.50	0.25	—	7.32	18.35	3.914	5.86	-88.5/60.9	Tan/Turbid	None

INSTRUMENTS USED: YSI 556 MPS

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.015

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Hunter M Barnhill, CnB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:31	SAMPLING ENDED AT: 14:33
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	CG	40mL	HCl	120 mL	7.32	8260 Full List	B	0.25
MW-29 Equipment Blank @ 14:15	3	CG	40mL	HCl	120 mL	N/A	8260 Full List	B	0.25

REMARKS: Placed Purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N Main St. Roswell NM 88201	
WELL NO: MW-240	SAMPLE ID: MW-240	DATE: 01/07/2022

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 61.90	PURGE PUMP TYPE OR ~~BAILER~~: 10' PLC 4"

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (180 feet − 61.90 = 118.1 feet) X 0.65 gallons/foot = 76.76 gallons

3 WELL VOLUMES = 230.28 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:00	PURGING ENDED AT: 10:35	TOTAL VOLUME PURGED (gallons): 53

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~µS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or ~~% saturation~~	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:00	Initial	0	2.5	61.90	7.06	18.58	3.211	1.07	215/-51.7	Clear	None
10:05	10	10	2.5	—	7.21	18.80	3.217	0.96	223/60.4	Clear	None
10:11	20	20	2.5	—	7.15	18.77	3.231	0.87	23.1/-61.7	Clear	None
10:16	30	30	2.5	—	7.13	18.75	3.225	0.52	20.7/60.3	Clear	None
10:22	40	40	2.5	—	7.11	18.70	3.220	0.46	21.2/59.8	Clear	None
1035	55	55	2.5	—	7.10	18.61	3.225	0.51	20.8/60.2	Clear	None

INSTRUMENTS USED: YSI 556

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; (4" = 0.65); 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B = Bailer); BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Burchik/Cmes	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:35	SAMPLING ENDED AT: 10:40
PUMP/OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (Replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-240	3	CG	40mL	HCL	120mL	7.10	BTEX 8260	B	2.5
MW240 Equipment Rinsate	3	CG	40mL	HCL	120mL	7.10	BTEX 8260	B	2.5

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B = Bailer); BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201	
WELL NO: MW-26	SAMPLE ID: MW-26	DATE: 01/06/2021

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 43 feet to 63 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Dedicated BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (65.0 feet − 50.10 = 14.90 feet) X 0.16 gallons/foot = 2.38 gallons

3 WELL VOLUMES = 7.157 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.63	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.63	PURGING INITIATED AT: 15:55	PURGING ENDED AT: 16:20	TOTAL VOLUME PURGED (gallons): 7.25

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (circle) mV or ORP (mV)	COLOR (describe)	ODOR (describe)
15:55	Initial	0	0.40	50.10	6.35	18.16	3.608	6.19	102.6/72.9	Clear	None
16:00	2	2	0.40	/	6.32	18.29	3.628	6.56	112.5/72.0	Clear	None
16:05	4	4	0.40	/	6.01	18.26	3.638	6.90	113.6/74.0	Clear	None
16:10	6	6	0.40	/	6.90	18.24	3.633	6.54	115.0/72.5	Clear	None
16:20	7.25	7.25	0.40	/	6.89	18.24	3.627	5.46	115.4/72.1	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2") = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McBride / ICMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:21	SAMPLING ENDED AT: 16:25
PUMP OR TUBING DEPTH IN WELL (feet): 56.63'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-26	3	CG	40mL	HCL	120 mL	6.89	8260 Full List	BP	0.40

REMARKS: Placed Purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201	
WELL NO: MW-27	SAMPLE ID: MW-27	DATE: 11/26/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 69.47	PURGE PUMP TYPE OR BAILER: 1.6"x30' Poly Disposable Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.0 feet − 69.47 = 5.53 feet) X 0.16 gallons/foot = 0.885 gallons

3 WELL VOLUMES = 2.65 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 0930	PURGING ENDED AT: 0946	TOTAL VOLUME PURGED (gallons): 2.75

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (circle units) mV or ft	COLOR (describe)	ODOR (describe)
0930	Initial	0	0.25	69.47	6.04	18.20	3.755	1.34	111.3/-324.9	Gray-Black	Strong Hydrocarbon
0936	0.50	0.50	0.25	—	6.64	19.34	3.740	0.78	107.4/-328.3	"	"
0939	1.0	1.0	0.25	—	6.59	19.32	3.710	0.99	108.3/-327.8	"	"
0943	2.0	2.0	0.25	—	6.53	19.32	3.724	1.09	111.9/-308.6	"	"
0946	2.75	2.75	0.25	—	6.47	19.26	3.737	1.32	112.5/-308.4	"	"

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton McDonald, CMS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0953

PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-27 Fairmont Blank & Equip RINSATE	3	CG	40mL	HCL	120 mL	N/A	BTEX 8260	B	0.25
MW-27	3	CG	40mL	HCL	120 mL	6.47	BTEX 8260	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B = Bailer); BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TW-Roswell Station 9	SITE LOCATION: 6251 N. Main St. Roswell, NM 88201
WELL NO.: MW-29	SAMPLE ID: MW-29
DATE: 11/25/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Dedicated BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (73.90' feet − 70.0= 3.90 feet) X 0.16 gallons/foot = 0.624 gallons

3 WELL VOLUMES = ~~1.87~~ 1.87 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 68.87'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 68.87'	PURGING INITIATED AT:	PURGING ENDED AT: 15:25	TOTAL VOLUME PURGED (gallons): 16:05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:25	Initial	0	0.05	70.0	6.83	21.12	1.815	5.84	68.8/-99.2	Clear	None
15:35	0.50	0.50	0.05	—	6.83	21.62	3.428	2.97	100.8/-104.6	Clear	None
15:45	1.0	1.0	0.05	—	6.75	21.10	3.416	2.53	103.2/-104.0	Clear	None
15:55	1.50	1.50	0.05	—	6.72	20.78	3.411	2.38	103.9/-114.6	Clear	None
16:05	2.0	2.0	0.05	—	6.70	20.69	3.412	2.33	105.0/-116.1	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F227AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5.66
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Easton M. Barnhill / Ensr	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:05	SAMPLING ENDED AT: 16:08
PUMP OR TUBING DEPTH IN WELL (feet): 68.87'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	CG	40mL	HCl	120mL	6.70	BTEX 8260	BP	0.05

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-32	SAMPLE ID: MW-32	DATE: 11/25/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet	STATIC DEPTH TO WATER (feet): 67.76	PURGE PUMP TYPE OR BAILER: 2" Dedicated B.P.

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (74.20 feet − 67.76 = 6.44 feet) X 0.16 gallons/foot = 1.03 gallons

3 WELL VOLUMES = 3.09 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
68.61'	68.61'	13:42	14:07	3.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
13:42	Initial	0	0.166	67.76	6.69	19.74	3.203	5.63	14.8/167	Clear	None
13:48	1	1	0.166	—	6.08	19.57	3.296	2.38	30.5/716	Clear	None
13:54	2	2	0.166	—	6.07	19.45	3.307	2.24	98.6/57.9	Clear	None
14:02	3.25	3.25	0.166	—	6.08	19.41	3.305	2.23	101.8/370	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05E2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton McDonald / CMB		14:02	14:15

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
68.61'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-32	3	CG	40mL	HCl	120mL	6.08	BTEX 8260	BP	0.166
MW-32 Replicate	3	CG	40mL	HCl	120mL	6.08	BTEX 8260	BP	0.166

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS.
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main ST. Roswell, NM 88201	
WELL NO: MW-34	SAMPLE ID: MW-34	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 49 feet to 79 feet	STATIC DEPTH TO WATER (feet): 64.69	PURGE PUMP TYPE OR BAILER: Redi-Flo 2 BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.75 feet – 64.69 = 11.06 feet) X 0.16 gallons/foot = 1.769 gallons

3 WELL VOLUMES = 5.31 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67.0	PURGING INITIATED AT: 14:30	PURGING ENDED AT: 15:00	TOTAL VOLUME PURGED (gallons): 5.50

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:30	Initial	0	0.20	64.69	6.06	19.40	3.572	3.37	96.6/-14.7	Clear	None
14:35	1	1	0.20	—	6.16	19.37	3.576	0.96	87.0/-16.8	Turbid	None
14:40	2	2	0.20	—	6.16	19.17	3.566	0.79	87.0/-32.2	Turbid	None
14:45	3	3	0.20	—	6.10	19.14	3.551	0.60	89.3/-51.5	Clear	None
14:50	4	4	0.20	—	6.08	19.15	3.549	0.59	89.7/-52.2	Clear	None
15:00	5.50	5.50	0.20								

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Bradshaw KMS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:00	SAMPLING ENDED AT: 1503
PUMP OR TUBING DEPTH IN WELL (feet): 67.0'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-34	3	CG	40mL	HCl	120 mL	<2	BTEX 8260	BP	0.20

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO: MW-35	SAMPLE ID: MW-35
	DATE: 11/21/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH 49 feet to 79 feet	STATIC DEPTH TO WATER (feet): 62.21	PURGE PUMP TYPE OR BAILER: ~~Grab~~ 2" Diaphragm DP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (76.71 feet – 62.21 = 14.5 feet) X 0.16 gallons/foot = 2.32 gallons

3 WELL VOLUMES = 6.96 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.05	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.05	PURGING INITIATED AT: 11:35	PURGING ENDED AT: 12:10	TOTAL VOLUME PURGED (gallons): 7 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL pH (mV)	COLOR (describe)	ODOR (describe)
11:35	Turbid	0	0.053	62.21	6.62	17.18	4.010	6.74	76.8/89.6	Clear	None
11:53	1	1	0.333	—	6.31	18.69	4034	6.35	80.1/78.8	Turbid	None
11:56	2	2	0.166	—	6.29	18.90	4042	5.74	84.9/85.9	Turbid	None
12:02	4	4	0.166	—	6.24	18.88	4.045	5.68	83.8/81.7	Turbid	None
12:08	6	6	0.166	—	6.23	18.90	4.046	5.55	84.5/84.5	Turbid	None
12:10	7	7	0.166	—	6.21	18.85	4.046	5.77	85.6/86.6	Turbid	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McDonald / Ensolum	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:11	SAMPLING ENDED AT: 12:13
PUMP OR TUBING DEPTH IN WELL (feet): 61.05'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW35	3	CG	40mL	HCL	120 mL	6.21	BTEX 8260	BP	0.166

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME:	TWP Roswell Station 9	SITE LOCATION:	6381 N. Main Street Roswell, NM 88201
WELL NO:	MW-37	SAMPLE ID:	MW-37
DATE:	11/20/2019		

PURGING DATA

WELL DIAMETER (inches):	2"	TUBING DIAMETER (inches):	1/2"	WELL SCREEN INTERVAL DEPTH:	50 feet to 70 feet	STATIC DEPTH TO WATER (feet):	59.85	PURGE PUMP TYPE OR BAILER:	Dedicated B.P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER), X WELL CAPACITY (only fill out if applicable)

= (69.61' feet – 59.85' 9.76 feet) X 0.16 gallons/foot = 1.56 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

3CV = 4.68 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	64.20'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	64.20'	PURGING INITIATED AT:	13:35	PURGING ENDED AT:	13:47	TOTAL VOLUME PURGED (gallons):	5.6+1.6=7.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP ~~TURBIDITY (NTUs)~~ mV/NTU	COLOR (describe)	ODOR (describe)
13:35	Initial	0	0.50	59.85'	8.29	19.32	3.885	7.22	52/71.5	Clear	None
13:37	1	1	0.50	—	7.79	19.23	3.866	5.87	148/67.7	Clear	None
13:39	2	2	0.50	—	7.78	19.01	3.876	5.93	36.3/66.4	Clear	None
13:41	3	3	0.50	—	7.52	18.83	3.875	5.55	35.2/65.2	Clear	None
13:43	4	4	0.50	—	6.83	18.71	3.872	5.48	60.8/61.6	Clear	None
13:46	4.75	4.75	0.50	—	6.82	18.79	3.872	5.44	61.9/61.0	Clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; (BP) Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Clayton McCorkle / EMS	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	13:47	SAMPLING ENDED AT:	13:50
PUMP OR TUBING DEPTH IN WELL (feet):	64.20	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP Y (N)		TUBING Y (N) (replaced)		DUPLICATE: (Y) N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-37	3	CG	40mL	HCL	120 mL	6.82	BTEX 8260	BP	0.50
MW-37 Duplicate	3	CG	40mL	HCL	120 mL	6.82	BTEX 8260	BP	0.50

REMARKS: YSI 556 MPS Serial # 05F227AC

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME:	TWP Roswell Station 9	SITE LOCATION:	6381 N. Main St. Roswell NM 88201
WELL NO:	MW-39	SAMPLE ID:	MW-39
DATE:	01/07/2020		

PURGING DATA

WELL DIAMETER (inches):	2"	TUBING DIAMETER (inches):	1/2"	WELL SCREEN INTERVAL DEPTH:	55 feet to 75 feet	STATIC DEPTH TO WATER (feet):	49.40	PURGE PUMP TYPE OR BAILER:	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.11 feet – 49.40 = 20.71 feet) X 0.16 gallons/foot = 3.31 gallons

3 WELL VOLUMES = 9.94 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	64.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	64.0	PURGING INITIATED AT:	10:45	PURGING ENDED AT:	11:45	TOTAL VOLUME PURGED (gallons):	

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:45	Init.	0	0.20	49.40	7.25	18.85	3.401	3.80	-21.5/121.0	Tan/Brown	None
10:55	2	2	0.20	"	6.98	18.60	3.595	3.81	-22.8/121	"	"
11:05	4	4	0.20	"	6.95	18.79	3.602	2.87	-22.1/120	"	"
11:15	6	6	0.20	"	6.98	18.60	3.615	2.60	-22.2/119.8	"	"
11:25	8	8	0.20	"	6.98	18.61	3.615	2.59	-22.8/135.7	"	"
11:45	10	10	0.20	"	6.99	18.65	3.619	2.65	-23.0/136.8	"	"

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	Jayton M Burchill / [illegible]	SAMPLER(S) SIGNATURE(S):	[signature]	SAMPLING INITIATED AT:	11:45	SAMPLING ENDED AT:	11:50

PUMP OR TUBING DEPTH IN WELL (feet):	64.0	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (per minute)
MW39	3	CG	40mL	HCl	120 mL	6.99	8260 Full List	BP	0.20

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS.
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-40	SAMPLE ID: MW-40	DATE: 01/08/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 54.30	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.13 feet 54.30 = 15.83 feet) X 0.16 gallons/foot = 2.53 gallons

3 WELL VOLUMES = 7.59 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet)	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:00	PURGING ENDED AT: 10:18	TOTAL VOLUME PURGED (gallons): 7.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:00	Initial	0	0.50	54.30	6.93	18.53	3.450	3.50	-13.5/107.8	Clear	None
10:03	2	2	0.50	—	6.92	18.67	3.457	3.57	-13.8/148.2	Turbid	None
10:06	4	4	0.50	—	6.92	18.55	3.462	3.60	-13.7/147.2	Turbid	None
10:10	6	6	0.50	—	6.88	18.57	3.466	3.58	-13.8/148.0	Turbid Brown	None
10:13	7.75	7.75	0.50	—	6.89	18.60	3.465	3.62	-13.7/147.8	Turbid Reddish	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2") = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McBarnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:15	SAMPLING ENDED AT: 10:20
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-40	3	CG	40mL	HCl	120mL	6.89	8260 Full List	BP	0.50

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Screw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TNP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: MW-41	SAMPLE ID: MW-41	DATE: 01/08/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 57.20	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.06 feet – 57.2 = 12.86 feet) X 0.12 gallons/foot = 2.057 gallons

3 WELL VOLUMES = 6.17 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:25	PURGING ENDED AT: 10:41	TOTAL VOLUME PURGED (gallons): 6.25

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:25	Initial	0	0.20	57.20	7.17	18.91	3.400	7.10	-9.7/10.2	Clear	None
10:30	2	2	0.20	—	7.03	18.92	3.397	7.25	-5.8/12.4	Clear	None
10:36	4	4	0.20	—	7.03	18.87	3.396	7.35	-5.6/15.7	Clear	None
10:41	6.25	6.25	0.20	—	7.08	18.91	3.397	7.40	-5.1/15.0	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McCasland/Ensr	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:41	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (Replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW41	3	CG	40mL	HCl	120 mL	7.08	8260 Full List	BP	0.20

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6361 N. Main St. Roswell, NM 88201
WELL NO: MW-42	SAMPLE ID: MW-42
DATE: 01/08/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 55.58	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.95 feet – 55.58 = 20.37 feet) X 0.16 gallons/foot = 3.26 gallons

3 WELL VOLUMES = 9.777 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.03'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.03'	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0947	TOTAL VOLUME PURGED (gallons): 10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0920	Initial	0	0.40	55.58	6.97	16.52	3.616	4.95	-19.9/122.7	clear	None
0926	2	2	0.40	—	6.34	18.52	3.643	4.71	-2.5/122.5	"	"
0931	4	4	0.40	—	6.33	18.52	3.614	4.39	-2.7/120.7	clear	None
0937	6	6	0.40	—	6.34	18.51	3.629	4.87	-2.6/120.7	clear	None
0942	8	8	0.40	—	6.86	18.51	3.614	4.86	-2.5/120.7	clear	None
0947	10	10	0.40	—	6.68	18.51	3.615	4.30	-2.6/121.0	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McBarnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0955
PUMP OR TUBING DEPTH IN WELL (feet): 64.03'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal. per minute)
MW-42	3	CG	40mL	HCl	120 mL	6.88	8260 Full List	BP	0.40
MW-42 Duplicate	3	CG	40mL	HCl	120 mL	6.88	8260 Full List	BP	0.40

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
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GROUNDWATER SAMPLING LOG

SITE NAME	TWP Roswell Station #9	SITE LOCATION	6361 N. Main St. Roswell, NM 88201
WELL NO:	SVE-28	SAMPLE ID:	SVE-28
DATE:	01/08/2020		

PURGING DATA

WELL DIAMETER (inches):	2"	TUBING DIAMETER (inches):	N/A	WELL SCREEN INTERVAL DEPTH:	25 feet to 35 feet	STATIC DEPTH TO WATER (feet):	28.81	PURGE PUMP TYPE OR BAILER:	1.5" pdp Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (34.85 feet − 28.81 = 6.04 feet) X 0.16 gallons/foot = 0.9664 gallons

3 WELL VOLUMES = 2.89 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1355	PURGING ENDED AT: 1420	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
13:55	Initial	0	0.25	28.81	6.28	17.46	2.891	2.00	152.7/-87.2	Clear	Strong HC odor
14:10	1	1	0.25	—	6.37	19.58	2.868	1.82	128.6/174.4	Turbid	Strong
14:15	2	2	0.25	—	6.72	19.83	2.880	2.02	119.7/-185.2	Red Silt	Strong
14:20	3	3	0.25	—	6.73	19.72	2.881	2.35	111.2/-172.8	"	"

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:22	SAMPLING ENDED AT: 1425
Clayton M Barnhill / CMB			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
N/A	N/A		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SVE-28	3	CG	40mL	HCl	120mL	6.73	8260 Full List	B	0.25
SVE-28 Equipment Rinsate	3	CG	40mL	HCl	120mL	6.73	8260 Full List	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201	
WELL NO: SVE - 30	SAMPLE ID: SVE - 30	DATE: 01/08/2020

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 20 feet to 45 feet	STATIC DEPTH TO WATER (feet): 42.45	PURGE PUMP TYPE OR BAILER: Poly 1-5"x30 Disposible

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (44.05 feet – 42.45 = 1.6 feet) X 0.16 gallons/foot = 0.256 gallons

3 WELL VOLUMES = 0.768 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:25	PURGING ENDED AT: 15:40	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:25	Tubing Vol	0.0	0.25	42.45	3.95	19.26	5.485	0.57	163.4/-174.8	Black	Strong HC odor
15:34	0.25	0.25	0.25	–	4.53	19.11	5.467	0.58	148.2/-334.8	"	"
15:35	0.50	0.50	0.25	–	4.81	19.58	5.821	1.62	143.4/-256.8	"	"
15:37	0.75	0.75	0.25	–	5.27	19.82	5.815	3.69	136.4/-256.1	"	"
15:40	1.0	1.0	0.25	–	5.04	19.58	5.842	0.63	-136.5/-255.5	"	"

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / KMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:40	SAMPLING ENDED AT: 15:45
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (Replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SVE-30	3	CG	40mL	HCL	120mL	5.04	8260 Full List	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: RW-1	SAMPLE ID: RW-1	DATE: 11/08/2020	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: N/A feet to feet	STATIC DEPTH TO WATER (feet): 33.28	PURGE PUMP TYPE OR BAILER: 10' PVC 1.5" Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

= (47.65 feet - 33.28 = 14.33 feet) X 0.65 gallons/foot = 9.31 gallons

3 WELL VOLUMES = 27.94 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:50	PURGING ENDED AT: 15:20	TOTAL VOLUME PURGED (gallons): 28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:50	Initial	0	0.20	33.28	6.57	18.23	2.622	0.14	121.9/-344.1	Brown	Strong HC odor
14:55	5	5	2.0	—	6.68	20.56	1.299	0.99	120.8/-52.0	" "	" "
15:00	10	10	2.0	—	6.71	20.66	1.550	1.10	118.5/-385.7	"	" "
15:10	20	20	2.0	—	6.91	20.45	1.433	1.02	115.1/-385.9	" "	" "
15:20	28	28	2.0	—	6.92	20.38	1.432	0.82	114.8/-387.0	" "	" "

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; (4") = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:22	SAMPLING ENDED AT: 15:25
Clayton Burchit / Jemb			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
RW-1	3	CG	40mL	HCl	120 mL	6.92	8260 BTEX CIST	B	12.0

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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Location Twp Roswell Station 9 Date 02/13/2020

Project / Client GW Monitoring 2019
EarthCon Consultants, Inc.
By: CMB Environmental & Geological Services, Inc
Page 1 of 2

Calibrated YSI 556 MPS
Serial # 05F2274AL.
Conductivity: 500mL Calitech.
1413 µs/cm @ 25°C Exp. 09/04/2020
Initial: @ 10:45 hr. 1330 µS/cm @ 15.73°C
Final: 1.413 mS/cm @ 15.73°C
pH 7.0: Calitech. 500mL pH 7.0
@ 25°C Expires: 05/22/2020
Initial: @ 10:47 hr. 7.00 pH @ 15.63
Final: 7.00 pH @ 15.64°C
pH 4.0: Calitech 500mL pH 4.0
@ 25°C Exp. 07/03/2020
Initial: @ 10:50 hr. 3.94 pH @ 15.80°C
Final: 4.00 pH @ 15.79°C
ORP: Aurical 500 mL ORP 100 mV
@ 25°C Exp. 2/17/2020
Initial: @ 10:55 hr. 212.1 ORP mV @ 15.41°C
Final: 99.9 mV ORP @ 15.41°C
DO: 8.30 mg/L in ambient air
Initial: @ 11:01 10.04 mg/L Final: 8.30 mg/L

Location Twp Roswell Station 9 Date 02/13/2020

Project / Client GW Monitoring 2019
EarthCon Consultants, Inc. By:
CMB Environmental & Geological Services Inc. Page 2 of 2
Arrive on-site @ 13:30
Sunny 50°F Humidity: 53%
Wind: SE @ 15 mph, Barometric Pressure: 30.06" in ↓

Well #	Purge	DTW	T.D.	3 CV gallons
MW-10	Ø	69.87'	72.45'	1.24
MW-11	Ø	65.10	68.55	1.66
MW-17	Ø	63.23'	67.35	1.98

Began GW monitoring @ 14:00 hr. Left site @ 16:00 hr. Shipped Samples @ 17:00 hr.
Sampled for BTEX 8260

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell/Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 02/13/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 57' feet to 72' feet	STATIC DEPTH TO WATER (feet): 69.87'	PURGE PUMP TYPE OR BAILER: ~~BP~~ Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
72.45 = (74.45 feet – 69.87' = 2.58 feet) X 0.16 gallons/foot = 0.4128 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
3well vol. = 1.24 ~~gallons~~ gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:10	PURGING ENDED AT: 14:18	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:10	Initial	0	0.25	69.87	6.93	18.95	3.806	2.82	mV/NTU 184.4/183.7	Brown TURBID	None
14:12	0.50	0.50	0.25	—	6.56	18.92	3.807	3.26	181.2/162.2	Brown TURBID	None
14:16	1.0	1.0	0.25	—	6.85	18.78	3.802	3.47	198.1/142.2	" "	" "
14:18	1.25	1.25	0.25	—	6.22	18.73	3.793	3.39	189.7/121.2	Brown TURBID	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill/CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:20	SAMPLING ENDED AT: 14:25
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	3	CG	40mL	HCL	120 mL	6.22	BTEX 8260	B	0.25
MW-10 Duplicate	3	CG	40mL	HCL	120 mL	6.22	BTEX 8260	B	0.25

REMARKS: YSI 556 MPS Serial # 05F227441
Solinst IP Serial # 55638

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO: MW-11	SAMPLE ID: MW-11
	DATE: 02/13/2020

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: 54 feet to 69 feet	STATIC DEPTH TO WATER (feet): 65.10	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (68.55 feet − 65.10 = 3.45 feet) X 0.16 gallons/foot = 0.55 gallons

3 WELL VOLUMES = 1.66 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:45	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:45	Initial	0	0.25	65.10	6.42	17.94	3.882	4.96	210.2/-70.2	Brown	Odor
14:49	0.50	0.50	0.25	/	6.66	17.86	3.876	4.45	206.0/-73.3	Turbid	None
14:51	1.0	1.0	0.25	/	6.84	18.32	3.846	4.88	+200.6/-78.3	Turbid	None
14:54	1.50	1.50	0.25	/	6.01	18.52	3.847	5.00	196.9/-80.4	Turbid	None
14:55	1.75	1.75	0.25	/	6.05	18.17	3.912	5.06	195.7/-80.3	Turbid	None

INSTRUMENTS USED: YST 556 MPS Serial # 05F2274AL Solinst IP Serial # 555638

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Cleyton M Barnhill/CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:55	SAMPLING ENDED AT: 15:06
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	Equipment Rinsate

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-11	3	CG	40mL	HCl	120 mL	6.05	BTEX 8260	B	0.25
Equipment Rinsate MW-11	3	CG	40mL	HCl	120mL	N/A	BTEX 8260	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9 | SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO: MW-17 | SAMPLE ID: MW-17 | DATE: 02/13/2020

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): N/A | WELL SCREEN INTERVAL DEPTH: 53 feet to 68 feet | STATIC DEPTH TO WATER (feet): 63.23 | PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (67.35 feet – 63.23 = 4.12 feet) X 0.16 gallons/foot = 0.659 gallons

3 WELL VOLUMES = 1.9776 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: 1526 | PURGING ENDED AT: 1535 | TOTAL VOLUME PURGED (gallons): 2 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL pH (mV)	COLOR (describe)	ODOR (describe)
1526	Initial	0	0.25	63.23	6.70	17.93	4.126	2.34	206.2/-151.7	Turbid	Slight H2S odor
15:28	0.50	0.50	0.25	/	6.90	17.96	4.142	2.07	197.7/-233.8	Turbid	Mod odor
15:30	1.0	1.0	0.25	/	6.38	18.25	4.126	2.84	167.9/-202.9	"	" "
15:32	1.5	1.5	0.25	/	6.40	18.07	4.140	3.64	188.3/-163.1	Turbid	None
15:35	2.0	2.0	0.25	/	6.26	18.06	4.129	3.82	168.4/-140.0	Turbid Brown	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL Solinst WL Serial # 53038

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M. Barnhill / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1535 | SAMPLING ENDED AT: 1540

PUMP OR TUBING DEPTH IN WELL (feet): N/A | TUBING MATERIAL CODE: N/A | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-17 @ 15:45	3	CG	40mL	HCl	120mL	6.26	BTEX 8260	B	0.25
Field Blank									

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Released to Imaging: 11/22/2022 9:27:59 AM

Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc.
ATTN: JD Haines, S Diamond
Mailing Address: 1880 West Oak Parkway Bldg. 100 Suite 106, Marietta, Ga 30062
Phone #: 770.973.2100
email or Fax#: JHaines@earthcon.com SDiamond@earthcon.com
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush
Project Name: Earthcon Consultants Inc. TWP Roswell Station 7
Project #: 02.2012.003700 GW Monitoring 2015
Project Manager: JD Haines, PE
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF):

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260
02/13/2020	1425	H_2O	MW-10	3x40mL VOA's	HCl												X
02/13/2020	1425	H_2O	MW-10 Duplicate	3x40mL VOA's	HCl												X
02/13/2020	15:00	H_2O	MW-11	3x40mL VOA's	HCl												X
02/13/2020	15:00	H_2O	MW-11 Equipment Rinsate	3x40mL VOA's	HCl												X
02/13/2020	15:40	H_2O	MW-17	3x40mL VOA's	HCl												X
02/13/2020	15:45	H_2O	Field Blank	3x40mL VOA's	HCl												X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
02/13/2020	1700					
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: ANY QUESTIONS PLEASE CALL CM BARNHILL 575.626.1615

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

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UPS Ground **S.D.P.**

Shipping Document

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TRACKING NUMBER: K270 799 602 5

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO.: 1AF802

REFERENCE NUMBER: Earthcon Twp Roswell Station 9

NAME: Cm Barnhill, Pe TELEPHONE: 575 626 1615

COMPANY: CmB Environmental

STREET ADDRESS: 115 E. College Blvd. #109

CITY AND STATE: Roswell, NM ZIP CODE: 88201

2 DELIVERY TO

NAME: Sample Receiving TELEPHONE: 505 345 3975

COMPANY: Hall Environmental Analysis Lab DEPT./FLR.:

STREET ADDRESS: 4901 Hawkins NE Residential Delivery ☐

CITY AND STATE: Albuquerque NM ZIP CODE: 87109

3 WEIGHT

WEIGHT (Whole Lbs. Only)	DIMENSIONAL WEIGHT (If Applicable)	LARGE PACKAGE
		☐

4 SHIPPER RELEASE ☐

	CHARGES
5 GROUND S.D.P. SHIPPING CHARGES	$
6 OPTIONAL SERVICES ☐ DECLARED VALUE FOR CARRIAGE (For declared value over $100, see instructions.) $ AMOUNT	$
C.O.D. shipping may be available at UPS.com	
7 ADDITIONAL HANDLING CHARGE ☐ An Additional Handling Charge applies for certain items. See instructions.	$
TOTAL CHARGES	$

8 METHOD OF PAYMENT

☐ Bill Shipper's Account Number (In Section 1) ☒ Bill Receiver ☐ Bill Third Party ☐ Credit Card (American Express, Diner's Club, MasterCard, Visa) (Record Account No. In Section 9) ☐ Check

9 RECEIVER'S/THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO. 1AF802 EXPIRATION DATE

THIRD PARTY'S COMPANY NAME: Hall Environmental Analysis Lab

STREET ADDRESS: 4901 Hawkins NE

CITY AND STATE: Albuquerque NM ZIP CODE: 87109

Shipper authorizes UPS to act as forwarding agent for export control and customs purposes. Shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to law is prohibited.

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Drop-Off Package Receipt: 1 of 1

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The UPS Store #4804
115 E COLLEGE BLVD
ROSWELL NM 88201-5158

DROP-OFF DATE/TIME:
Thu 13 Feb 2020 5:03 PM

ESTIMATED PICKUP DATE:
UPS Thu 13 Feb 2020 1pkg

CUSTOMER:
Not Provided
ID Type: Not Provided

TOTAL PACKAGES: 1pkg

TRACKING NUMBER	CARRIER & SERVICE	WEIGHT
K2707996025	UPS Ground	30.75000 lb

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CMB CONSULTING GEOLOGIST
WELL DATA FORM

Well No. RW-1
Sheet 1
of Sheets 2

1. Project RW-1 Pump Test TWP Roswell Station 9
2. Project Location TWP Roswell Station 9 6381 N. Main Street Roswell, NM 88201
3. Date 04/01/2020
4. Technician CM Barnhill, PE

Sampling / Development Parameters, Continued

Time	Temp C	Conductivity (umhos/cm)	pH	NTUs	WL (from TOC)	Volume (gallons)	Flow Rate (gpm)	Photo #, Observations (1)
Arrive on site @ 0850 hrs - 56°F Mostly Cloudy								
Humidity 37% Wind: SW 12 mph Barometric Pressure								
29.72" Hg								
well Depth #					DTW	T.D.		
0930	RW-1				33.75'	41.80'		
0935	SVE-27				Ø	34.15'		
0938	SVE-28				29.12'	35.0'		
		4" Submersible pump set @ 40.80' From TOC						
10:20	RW-1	1" Discharge line -			33.76'	—	—	—
Surge Tank: TOP Water @ 4.08' NAPL 3.75'								
	SVE-27	34.15' T.D						
10:30	Started Pumping @ 10:30				34.6 GPM			
	SVE-28				29.12	—	—	—
10:31	RW-1 @				36.35'			
10:32	SVE-28				29.0			
10:35	RW-1				36.47			
	SVE-28				29.0			
10:37	RW-1				36.85			
	SVE-28				29.0			
10:40	RW-1				36.84'			
	SVE-28				29.0			
10:45	RW-1				37.05'		(33 GPM)	
	SVE-28				29.0			
10:50	RW-1				37.23'		(32.07 GPM)	
	SVE-28				29.0		3.32 NAPL (Surge Tank)	
10:55	RW-1				37.39'		(31.09 GPM)	
	SVE-28				29.0		NAPL @ 3.0' Surge Tank	

NTU = Nephelometric turbidity units

WL = Water Level from Top of PVC Casing

Checked By [signature] PE

Date 04/01/2020

CMB CONSULTING GEOLOGIST
WELL DATA FORM

Well No. RW-1
Sheet 2 of Sheets 2

1. Project RW-1 Pump Test TWP Roswell Station 9
2. Project Location TWP Roswell Station 9 6351 Main St. Roswell, NM 88201
3. Date 04/01/2020
4. Technician CM Barnhill, PG

Sampling / Development Parameters, Continued

Time	Well # / Temp C	Conductivity (umhos/cm)	pH	NTUs	WL (from TOC)	Volume (gallons)	Flow Rate (gpm)	Photo #, Observations (1)
11:00	RW-1				37.50'		(30.68')	
11:00	SVE-28				29.0'		Surge Tank NAPL 2.70'	
11:05	RW-1				37.95'			
	SVE-28				29.0		(30.57)	
11:10	RW-1				38.05'		Surge Tank NAPL @ 2.37'	
	SVE-28				29.0'		(31.12) NAPL	
11:15	RW-1				38.20'		Surge Tank 2.17'	
	SVE-28				29.0'			
11:20	RW-1				~~32.71~~ 38.40'		Surge Tank NAPL 1.85'	
	SVE-28				29.0		(32.71)	
11:25	RW-1				38.50'		Surge Tank NAPL 1.50	
	SVE-28				29.0			
* Shut Down @ 11:30 hr - Pump off - Will let well re-charge								
11:35	RW-1				37.85			
	SVE-28				29.0'			
11:40	RW-1				35.55			
	SVE-28				29.0'			
11:45	RW-1				35.25			
	SVE-28				29.0			
11:50	RW-1				35.12			
	SVE-28				29.0			
11:55	RW-1				34.95			
	SVE-28				29.0'		* Average Pumping	
12:00	RW-1				34.80'		rate = 31.978 Gallons	
	SVE-28				29.0		per minute = 1918	
12:10	RW-1				34.70'		Gallons pumped *	
~~12:20~~	SVE28				29.0			
~~12:30~~	RW-1				34.55'			
	SVE-28				29.0'			
12:30	RW-1				34.45'			
	SVE-28				29.0'			

NTU = Nephelometric turbidity units

WL = Water Level from Top of PVC Casing

Left Site @ 13:00 hr

Checked By [signature] PG

Date 04/01/2020

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

1 110

Location Twp Roswell Station 9 Date 04/04/2020

Project / Client Napl Removal / SVE-23

EarthCon Consultants, Inc. By:

CMB Environmental & Geological Services, Inc. Page 1 of 1

Arrive on-site @ 0830 hr.

Well #	DNapl	DTw	T.D.	Remarks
SVE23	33.40'	34.30	36.80'	Black oil

2" SCH 40 PVC SVE Well Napl Thickness

34.30' - 33.40' = 0.90' Napl

0.90 x 0.16 = 0.144 Gallons Napl

@ 0920 hr started Bailing SVE-23 with 3.0' x 1.5" Poly disposable bailer. & 30" x 1/8" Stainless steel bailer

@ 0930 hr Bailed 5 gallons

99% H_2O 1% Napl

4.95 Gallons H_2O 0.05 Gallons Napl

DNapl = ∅ DTw = 34.80'

TD = 33.60'

Placed purged water in Tank inside Building to be pumped to large 210 Barrel Surge Tank.

Left Site @ 10:00

Christian Llull PG

Location Twp Roswell Station 9 Date 04/23/2020 111

Project / Client Gauge SVE & Monitor Wells & Remove Napl / EarthCon Consultants

By: CMB Environmental & Geological Services, Inc. Page 1 of 1

Arrived on-site @ 0700 hr.

Well #	DNapl	DTw	T.D.	Remarks
SVE-28	∅	29.11'	34.85'	@ 0730 hr
SVE-30	∅	42.55'	44.03'	@ 0735 hr.
RW-1	∅	33.79'	—	@ 07:40 hr
~~SVE~~ SVE-22	∅	∅	Dpy @ 33.15'	@ 07:45 hr
SVE-23	33.5'	33.90	36.80'	@ 0750 hr

0.40' Napl = 0.064 Gallons Napl

Started bailing SVE-23 @ 0755 hr

@ 0702 hr. DNapl = ∅ DTw = 35.70'

Bailed 160 ounces = 97% H_2O 3% Napl

155.2 ounces H_2O 4.8 ounces Napl

Placed large 3' absorbent Sock in well @ 34' From TOC.

Left Site @ 0830 hr.

Christian Llull PG

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Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

144

Location Twp Roswell Station 9 Date 04/06/2020

Project / Client NAPL Recovery / Earth Consultants, Inc. By: CMB

Environmental & Geological Services

Page 1 OF —

Arrive on-site 0630 hr.

Mike Beagles, Geotech,

Well	D_{NAPL}	D_{TW}	TD	Remarks
SVE-23	33.51	33.91	—	@ 07:08 hr. Started bailing with 3.0' x 1.8" poly disposable Bailer, @ 0715 hr. @ 07:20 Bailed 66 ounces 95% H_2O 5% NAPL 62.7 ounces H_2O 3.3 ounces Black NAPL. D_{NAPL} = 33.60' D_{TW} = 33.62' Left Site 07:45 hr.

Location _____ Date _____

Project / Client _____

Steve Diamond

From: Clayton Barnhill <cmbenviro@gmail.com>
Sent: Wednesday, March 25, 2020 12:13 PM
To: JD Haines; Steve Diamond
Subject: Gauging SVE wells at TWP Roswell Station 9

03/25/3020

SVE23: @ 09:20 hour from TOC
Dnapl: 29.11' Black engine oil
DTW: 0
Total Depth: 33.75'

NAPL Thickness: 4.64'

SVE 27: @09:15 hour from TOC
Dnapl: 0
DTW: 0
Total Depth: 34.10'
--
Clayton M. Barnhill, PG
CMB Environmental & Geological Services Inc.
PO Box 2304
Roswell, NM 88202-2304
(575) 626-1615
cmbenviro@gmail.com

Appendix B
Data Validation Report – RPDs and
Analytical Data Packages – Semi-annual Groundwater Sampling

APPENDIX B - Data Validation Report - RPDs
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene
MW-10	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-10DUP)	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-14	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-14 DUP)	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-20	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	7.4	2.5
(MW-20 DUP)	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	7.3	2.5
	RPD:	--	--	--	--	1.3	0
MW-32	11/25/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-32 DUP)	11/25/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-34	06/24/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-34 DUP)	06/24/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-37	11/20/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-37 DUP)	11/20/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-39	06/26/19	< 1.0	< 1.0	< 1.0	< 1.5	3.1	18
(MW-39 DUP)	06/26/19	< 1.0	< 1.0	< 1.0	< 1.5	2.8	18
	RPD:	--	--	--	--	10	0
MW-42	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.0
(MW-42 DUP)	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.1
	RPD:	--	--	--	--	--	10
MW-42	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.4
(MW-42 DUP)	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.5
	RPD:	--	--	--	--	--	7.1

NOTES:
Relative Percent Differenct (RPD) = abs([(S-D) / ((S+D)/2)] * 100)
S = Concentration of analyte in Real Sample
D = Concentration of analyte in Duplicate Sample
ug/L - all concentrations reported in micrograms per liter

Prepared by: JIM 2/21/20
Checked by: RAH 2/21/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 05, 2019

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Con Transwestern Pipeline Co OrderNo.: 1906F30

Dear JD Haines:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/27/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-34
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 9:37:00 AM
Lab ID: 1906F30-001 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Toluene	ND	1.0		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-34 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 9:37:00 AM
Lab ID: 1906F30-002 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Toluene	ND	1.0		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103
Surr: Toluene-d8	99.2	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-29
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 11:00:00 AM
Lab ID: 1906F30-003 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Toluene	ND	1.0		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063
Surr: Dibromofluoromethane	100	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063
Surr: Toluene-d8	98.8	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-21
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 11:40:00 AM
Lab ID: 1906F30-004 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Toluene	ND	1.0		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€
Surr: Toluene-d8	102	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:45:00 AM
Lab ID: 1906F30-005 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Toluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Acetone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Butanone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1-Dichloroethene	2.0	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:45:00 AM
Lab ID: 1906F30-005 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Styrene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 5:19:00 AM	R61063
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063
Surr: Toluene-d8	99.3	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Boiler Equipment Rinsat
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:25:00 AM
Lab ID: 1906F30-006 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Acetone	19	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Boiler Equipment Rinsat
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:25:00 AM
Lab ID: 1906F30-006 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 5:43:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063
Surr: Toluene-d8	99.5	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 9:17:00 AM
Lab ID: 1906F30-007 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1-Dichloroethane	7.8	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1-Dichloroethene	3.4	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 9:17:00 AM
Lab ID: 1906F30-007 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 6:07:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:03:00 AM
Lab ID: 1906F30-008 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1-Dichloroethane	7.8	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1-Dichloroethene	42	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:03:00 AM
Lab ID: 1906F30-008 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 6:31:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-009 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Acetone	5.3	5.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1-Dichloroethene	1.0	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-009 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 6:54:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	92.7	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063
Surr: Dibromofluoromethane	96.7	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063
Surr: Toluene-d8	97.7	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-010 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Acetone	14	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1-Dichloroethene	1.1	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-010 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 7:18:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063
Surr: Dibromofluoromethane	96.9	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063
Surr: Toluene-d8	98.3	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 3:37:00 PM
Lab ID: 1906F30-011 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 3:37:00 PM
Lab ID: 1906F30-011 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 7:42:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063
Surr: Toluene-d8	98.0	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 4:25:00 PM
Lab ID: 1906F30-012 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1-Dichloroethene	1.1	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 4:25:00 PM
Lab ID: 1906F30-012 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 8:06:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063
Surr: Dibromofluoromethane	96.7	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063
Surr: Toluene-d8	100	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-013 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1-Dichloroethane	3.1	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1-Dichloroethene	18	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-013 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 9:05:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063
Surr: Toluene-d8	100	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-014 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Acetone	11	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1-Dichloroethane	2.8	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1-Dichloroethene	18	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-014 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 9:29:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063
Surr: Dibromofluoromethane	98.7	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063
Surr: Toluene-d8	96.2	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-015 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	51	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Ethylbenzene	1.4	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Naphthalene	4.4	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
cis-1,2-DCE	5.2	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1-Dichloroethane	12	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-015 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 9:53:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063
Surr: Dibromofluoromethane	94.6	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063
Surr: Toluene-d8	102	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1 Boiler Equipment Rinsate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-016 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Acetone	30	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1 Boiler Equipment Rinsate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-016 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 10:16:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063
Surr: Dibromofluoromethane	94.8	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063
Surr: Toluene-d8	99.2	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:25:00 PM
Lab ID: 1906F30-017 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	1.5	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1-Dichloroethane	2.2	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:25:00 PM
Lab ID: 1906F30-017 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 10:40:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063
Surr: Toluene-d8	97.0	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:45:00 PM
Lab ID: 1906F30-018 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	10	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Toluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Ethylbenzene	24	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Naphthalene	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
1-Methylnaphthalene	ND	20		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Methylnaphthalene	ND	20		µg/L	5	7/2/2019 11:04:00 AM	B61063
Acetone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromodichloromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromoform	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromomethane	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Butanone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Carbon disulfide	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Carbon Tetrachloride	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chloroethane	11	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chloroform	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chloromethane	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Chlorotoluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
4-Chlorotoluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
cis-1,2-DCE	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Dibromochloromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Dibromomethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,3-Dichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,4-Dichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Dichlorodifluoromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1-Dichloroethane	30	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1-Dichloroethene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dichloropropane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,3-Dichloropropane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
2,2-Dichloropropane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:45:00 PM
Lab ID: 1906F30-018 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Hexachlorobutadiene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Hexanone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Isopropylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
4-Isopropyltoluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
4-Methyl-2-pentanone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Methylene Chloride	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
n-Butylbenzene	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
n-Propylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
sec-Butylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Styrene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
tert-Butylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
trans-1,2-DCE	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,4-Trichlorobenzene	5.6	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,1-Trichloroethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,2-Trichloroethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Trichloroethene (TCE)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Trichlorofluoromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,3-Trichloropropane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Vinyl chloride	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Xylenes, Total	ND	7.5		µg/L	5	7/2/2019 11:04:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063
Surr: Dibromofluoromethane	96.5	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063
Surr: Toluene-d8	97.1	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Transwestern Pipeline Co
Collection Date:
Lab ID: 1906F30-019
Matrix: TRIP BLANK
Received Date: 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Transwestern Pipeline Co
Collection Date:
Lab ID: 1906F30-019
Matrix: TRIP BLANK
Received Date: 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 11:28:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063
Surr: Dibromofluoromethane	95.9	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063
Surr: Toluene-d8	98.0	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070180** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.4	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **1906f30-004ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-21** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0.4060	98.5	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.3	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.4	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.6	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **1906f30-004amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-21** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070228** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0.4060	89.3	70	130	9.65	20	
Toluene	19	1.0	20.00	0	96.8	70	130	8.00	20	
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130	0	0	
Surr: Dibromofluoromethane	9.8		10.00		97.7	70	130	0	0	
Surr: Toluene-d8	10		10.00		100	70	130	0	0	

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070230** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070230** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070313** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.6	70	130			
Toluene	19	1.0	20.00	0	94.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.2	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070342** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL61103** RunNo: **61103**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2071640** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **PBW**	Batch ID: **SL61103**	RunNo: **61103**							
Prep Date:	Analysis Date: **7/2/2019**	SeqNo: **2071640**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.4	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.0	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **LCSW**	Batch ID: **SL61103**	RunNo: **61103**							
Prep Date:	Analysis Date: **7/2/2019**	SeqNo: **2071679**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.0	70	130			
Toluene	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.5	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.2	70	130			
Surr: Toluene-d8	9.8		10.00		97.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070178** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.6	70	130			
Toluene	19	1.0	20.00	0	94.1	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	85.3	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	83.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.2	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070221** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R61063**	RunNo: **61063**
Prep Date:	Analysis Date: **7/1/2019**	SeqNo: **2070221** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070221** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.4	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **B61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070414** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	22	1.0	20.00	0	111	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.3	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070415** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070415** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **PBW**	Batch ID: **B61063**	RunNo: **61063**							
Prep Date:	Analysis Date: **7/2/2019**	SeqNo: **2070415**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **1906F30** RcptNo: **1**

Received By: **Thom Maybee** **6/27/2019 10:00:00 AM**

Completed By: **Michelle Garcia** **6/27/2019 12:04:38 PM** Michelle Garcia

Reviewed By: LB 6/28/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☑

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Thm 6-28-19

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

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

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks: Sample 005 & 017 all have large amount of headspace

17. **Cooler Information** one of two Trip Blanks w/broken. Thm 6-28-19

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

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

Client: EarthCon Consultants, Inc.
ATTN: Jordon French
Mailing Address: 1880 West Oak Parkway #106
Marietta, Ga. 30062
Phone #: 770. 973. 2100 Ext. 2892
email or Fax#: Jfrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush
Project Name: EarthCon Trans Western Pipeline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, PE
Sampler: CM Barnhill PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 5.1+0.2=5.3

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906F30	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	8260 BTEX
06/24/19	0931	H_2O	MW-34	3x40mL VOAs	HCL	001											X
06/24/19	0937	H_2O	MW-~~99~~34 Duplicate			002											X
06/24/19	11:00	H_2O	MW-29			003											X
06/24/19	11:40	H_2O	MW-21			004											X
06/25/19	0845	H_2O	MW-22			005								X			
06/25/19	0825	H_2O	MW-22 Boiler equipment Rinsate			006								X			
06/25/19	0917	H_2O	MW-20			007								X			
06/25/19	10:03	H_2O	MW-26			008								X			
06/25/19	10:56	H_2O	MW-42			009								X			
06/25/19	10:56	H_2O	MW-42 Duplicate			010								X			
06/25/19	15:37	H_2O	MW-40			011								X			
06/25/19	16:25	H_2O	MW-41			012								X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
06/26/19	1500			UPS		
					6.27.19	1000
Date	Time	Relinquished by:	Received by:	Via:	Date	Time

Remarks: ANY Questions? Please Call CMB @ 575.626.1615

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

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 11/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Jordon French
Mailing Address: 1880 West Oak Parkway #106
Marietta, Ga 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: Jfrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____
Project Name: EarthCon Transwestern Pipeline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, P.E.
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature: 5.1 + 0.2 = 5.3°C

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1906F30	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) Full List	8270 (Semi-VOA)	Air Bubbles (Y or N)
06/26/19	11:16	H_2O	MW-39	3x 40mL VOA's	HCL	013										X		
06/26/19	11:16	H_2O	MW-39 Duplicate			014										X		
06/26/19	12:11	H_2O	RW-1			015										X		
06/26/19	12:11	H_2O	RW-1 equipment rinsate Bailer			016										X		
06/26/19	12:25	H_2O	SVE-28			017										X		
06/26/19	12:45	H_2O	SVE-30			018										X		
																	06/27/19	
			TRIP BLANK	2x 40mL VOA's	HCL	019										X		

Date	Time	Relinquished by:	Received by:	Date	Time
06/26/19	1500		UPS	6-27-19	10.00
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: ANY Questions ? Please Call CMB @ 575.626.1615

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

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 11, 2019

JD Haines
Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Con TWP Roswell Station 9 OrderNo.: 1907167

Dear JD Haines:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/2/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1907167**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27
Project: Earth Con TWP Roswell Station 9
Collection Date: 6/29/2019 7:00:00 PM
Lab ID: 1907167-001 **Matrix:** AQUEOUS **Received Date:** 7/2/2019 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	2.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Toluene	ND	2.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Ethylbenzene	ND	2.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Xylenes, Total	ND	3.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Surr: 1,2-Dichloroethane-d4	83.1	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259
Surr: 4-Bromofluorobenzene	87.7	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259
Surr: Dibromofluoromethane	88.3	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259
Surr: Toluene-d8	94.2	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1907167**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27 Field Blank
Project: Earth Con TWP Roswell Station 9
Collection Date: 6/29/2019 7:00:00 PM
Lab ID: 1907167-002 **Matrix:** AQUEOUS **Received Date:** 7/2/2019 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	7/10/2019 5:26:27 AM	S61259
Toluene	ND	1.0		µg/L	1	7/10/2019 5:26:27 AM	S61259
Ethylbenzene	ND	1.0		µg/L	1	7/10/2019 5:26:27 AM	S61259
Xylenes, Total	ND	1.5		µg/L	1	7/10/2019 5:26:27 AM	S61259
Surr: 1,2-Dichloroethane-d4	84.3	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259
Surr: Dibromofluoromethane	90.9	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259
Surr: Toluene-d8	92.1	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907167**

11-Jul-19

Client: Earth Con

Project: Earth Con TWP Roswell Station 9

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **PBW** Batch ID: **S61259** RunNo: **61259**

Prep Date: Analysis Date: **7/10/2019** SeqNo: **2076556** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.0	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130			
Surr: Dibromofluoromethane	9.1		10.00		90.6	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **LCSW** Batch ID: **S61259** RunNo: **61259**

Prep Date: Analysis Date: **7/9/2019** SeqNo: **2078514** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.8	70	130			
Toluene	18	1.0	20.00	0	91.2	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.8	70	130			
Surr: Toluene-d8	9.1		10.00		90.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EARTH CON | Work Order Number: 1907167 | RcptNo: 1

Received By: **Leah Baca** 7/2/2019 10:20:00 AM Leah Baca

Completed By: **Anne Thorne** 7/3/2019 12:30:15 PM Anne Thorne

Reviewed By: LR 7/3/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preserved added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? ~~Yes~~ ☑ No ☑ No VOA Vials ☐ YG 7/3/19
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

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

Adjusted? _____

Checked by: YG 7/3/19

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Yes			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc
ATTN: Jordan French
Mailing Address: 1650 Westoak Parkway #106
Marietta GA 30062
Phone #: 770.973.2100
email or Fax#: 770.973.7395 JFrench@earthcon.com
QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)
Accreditation ☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time: ☑ Standard ☐ Rush _____
Project Name: EarthCon TWP Roswell Station 9
Project #: GW Monitoring 2019 TWP Roswell Station 9
Project Manager: JD Haines, PG
Sampler: CM Barnhill, PG
On Ice: ☑ Yes ☐ No
Sample Temperature: (1) 3.8 + CF 0.0 = 3.8C

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1907167	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX 8260				Air Bubbles (Y or N)
06/29/19	1900	H_2O	SVE MW-27	3x 40mL VOA's	HCl	-001												X				N
06/29/19	1900	H_2O	MW-27 Field Blank	3x 40mL VOA's	HCl	-002												X				N

Date	Time	Relinquished by:	Received by:	Date	Time
06/30/19	0645				
			Lehr UPS	7/2/19	1020

Remarks: Any Questions? Please Call CMB @ 575.626.1615

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 26, 2020

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: TWP Roswell Station 9 EarthCon Consultants OrderNo.: 1911C67

Dear JD Haines:

Hall Environmental Analysis Laboratory received 11 sample(s) on 11/27/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 04, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-37
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/20/2019 1:47:00 PM
Lab ID: 1911C67-001 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 2:08:27 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 2:08:27 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 2:08:27 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 2:08:27 PM	R64839
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-37 Duplicate
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/20/2019 1:47:00 PM
Lab ID: 1911C67-002 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 3:34:09 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 3:34:09 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 3:34:09 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 3:34:09 PM	R64839
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839
Surr: Dibromofluoromethane	103	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-34
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/20/2019 3:00:00 PM
Lab ID: 1911C67-003 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 4:02:43 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 4:02:43 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 4:02:43 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 4:02:43 PM	R64839
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839
Surr: Dibromofluoromethane	110	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839
Surr: Toluene-d8	106	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-35
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/21/2019 12:11:00 PM
Lab ID: 1911C67-004 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 4:31:18 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 4:31:18 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 4:31:18 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 4:31:18 PM	R64839
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839
Surr: Dibromofluoromethane	102	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-32
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/25/2019 2:02:00 PM
Lab ID: 1911C67-005 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 4:59:56 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 4:59:56 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 4:59:56 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 4:59:56 PM	R64839
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839
Surr: Dibromofluoromethane	103	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-32 Duplicate
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/25/2019 2:02:00 PM
Lab ID: 1911C67-006 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 5:28:31 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 5:28:31 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 5:28:31 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 5:28:31 PM	R64839
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839
Surr: Dibromofluoromethane	106	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-29
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/25/2019 4:05:00 PM
Lab ID: 1911C67-007
Matrix: AQUEOUS
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 5:57:05 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 5:57:05 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 5:57:05 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 5:57:05 PM	R64839
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839
Surr: Dibromofluoromethane	106	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27 Equipment Rinsate
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/26/2019 9:05:00 AM
Lab ID: 1911C67-008 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 6:25:37 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 6:25:37 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 6:25:37 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 6:25:37 PM	R64839
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839
Surr: Toluene-d8	105	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-21
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/26/2019 11:00:00 AM
Lab ID: 1911C67-009 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 6:54:09 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 6:54:09 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 6:54:09 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 6:54:09 PM	R64839
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839
Surr: Dibromofluoromethane	108	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839
Surr: Toluene-d8	102	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/26/2019 9:50:00 AM
Lab ID: 1911C67-010
Matrix: AQUEOUS
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	2.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Toluene	ND	2.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Ethylbenzene	ND	2.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Xylenes, Total	ND	3.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	2	11/27/2019 7:22:41 PM	R64839
Surr: 4-Bromofluorobenzene	66.0	70-130	S	%Rec	2	11/27/2019 7:22:41 PM	R64839
Surr: Dibromofluoromethane	112	70-130		%Rec	2	11/27/2019 7:22:41 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	2	11/27/2019 7:22:41 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date:
Lab ID: 1911C67-011
Matrix: TRIP BLANK
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 7:51:09 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 7:51:09 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 7:51:09 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 7:51:09 PM	R64839
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839
Surr: Dibromofluoromethane	102	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C67**
26-Feb-20

Client: Earth Con
Project: TWP Roswell Station 9 EarthCon Consultants

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222891** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.2	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.5	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **1911c67-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-37**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222901** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	70	130			
Toluene	20	1.0	20.00	0	99.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.8	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		99.8	70	130			

Sample ID: **1911c67-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-37**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222902** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.0	70	130	2.99	20	
Toluene	19	1.0	20.00	0	93.2	70	130	6.50	20	
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.3		10.00		92.9	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		107	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.4	70	130	0	0	

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222918** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C67**
26-Feb-20

Client: Earth Con
Project: TWP Roswell Station 9 EarthCon Consultants

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **PBW**	Batch ID: **R64839**	RunNo: **64839**						
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222918**	Units: **µg/L**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.3	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.1	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **LCSW**	Batch ID: **R64875**	RunNo: **64875**						
Prep Date:	Analysis Date: **12/2/2019**	SeqNo: **2224105**	Units: **%Rec**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.8	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.1	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **PBW**	Batch ID: **R64875**	RunNo: **64875**						
Prep Date:	Analysis Date: **12/2/2019**	SeqNo: **2224108**	Units: **%Rec**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.0	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		88.8	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **1911C67** RcptNo: **1**

Received By: **Isaiah Ortiz** **11/27/2019 10:05:00 AM** I-Ox

Completed By: **Isaiah Ortiz** **11/27/2019 10:42:19 AM** I-Ox

Reviewed By: ENM 11/27/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑

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

    Adjusted? _____

    Checked by: JR 11/27/19 MH 12/4/19
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

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

    Person Notified: _____ Date: _____

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

    Regarding: _____

    Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc
ATTN: JHames, SDiamond
Mailing Address: 1550 West Oak Parkway Bldg 100 Suite 106, Marietta Ga 30062
Phone #: 770.973.2100
email or Fax#: JHames@earthCon.com
QA/QC Package: SDiamond@earthCon.com
☐ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: EarthCon Consultants Inc - TWP Roswell Station 9
Project #: 02.2012.008700 GW Monitoring 2019
Project Manager: J.D. Hames, PE
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature: 4302 (CF) 4.1°C

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1911C67
11/20/19	1347	H_2O	MW-37	3x40mL VOAs	HCl	-001
11/20/19	1347	H_2O	MW-37 Duplicate			-002
11/20/19	1500	H_2O	MW-34			-003
11/21/19	12:11	H_2O	MW-35			-004
11/25/19	14:02	H_2O	MW-32			-005
11/25/19	14:02	H_2O	MW-32 Duplicate			-006
11/25/19	16:05	H_2O	MW-29			-007
11/26/19	0905	H_2O	MW-27 Equipment Rinsate			-008
11/26/19	11:00	H_2O	MW-21			-009
11/26/19	0950	H_2O	MW-27			-010
			Trip Blank	2x40mL VOAs	HCl	-011

Date	Time	Relinquished by:	Received by:	Date	Time
11/26/19	1635		-O- CPS	11/27/19	1005
Date:	Time:	Relinquished by:	Received by:	Date	Time

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX 8260				Air Bubbles (Y or N)
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N

Remarks: Any Questions Please call CMB @ 575.626.1615

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 21, 2020

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2001727

Dear JD Haines:

Hall Environmental Analysis Laboratory received 20 sample(s) on 1/18/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-13
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 4:20:00 PM
Lab ID: 2001727-001 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905
Surr: Toluene-d8	96.2	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-14
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 9:41:00 AM
Lab ID: 2001727-002 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905
Surr: Dibromofluoromethane	94.4	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905
Surr: Toluene-d8	106	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-14 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 9:41:00 AM
Lab ID: 2001727-003 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905
Surr: Toluene-d8	85.0	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-004 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1-Dichloroethene	1.1	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-004 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 11:18:00 AM	R65905
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905
Surr: Toluene-d8	95.6	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-005 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-005 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 11:42:00 AM	R65905
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905
Surr: Dibromofluoromethane	95.9	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905
Surr: Toluene-d8	94.8	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-006 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1-Dichloroethane	7.4	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1-Dichloroethene	2.5	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-006 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 12:06:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905
Surr: Toluene-d8	95.1	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-007 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1-Dichloroethane	7.3	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1-Dichloroethene	2.5	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-007 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 12:30:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905
Surr: Toluene-d8	94.5	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-24D
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 10:35:00 AM
Lab ID: 2001727-008 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905
Surr: Dibromofluoromethane	94.2	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905
Surr: Toluene-d8	106	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-24D Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 10:35:00 AM
Lab ID: 2001727-009 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905
Surr: Dibromofluoromethane	94.8	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905
Surr: Toluene-d8	90.9	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 4:21:00 PM
Lab ID: 2001727-010 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1-Dichloroethane	9.1	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1-Dichloroethene	45	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 4:21:00 PM
Lab ID: 2001727-010 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 1:41:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905
Surr: Dibromofluoromethane	98.5	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905
Surr: Toluene-d8	115	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 11:45:00 AM
Lab ID: 2001727-011 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1-Dichloroethane	3.7	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1-Dichloroethene	24	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 11:45:00 AM
Lab ID: 2001727-011 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 2:05:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905
Surr: Toluene-d8	94.8	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:15:00 AM
Lab ID: 2001727-012 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:15:00 AM
Lab ID: 2001727-012 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 2:29:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905
Surr: Toluene-d8	110	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:41:00 AM
Lab ID: 2001727-013 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1-Dichloroethene	1.1	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:41:00 AM
Lab ID: 2001727-013 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 2:53:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905
Surr: Toluene-d8	85.7	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 9:50:00 AM
Lab ID: 2001727-014 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1-Dichloroethene	1.4	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 9:50:00 AM
Lab ID: 2001727-014 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 3:17:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905
Surr: Toluene-d8	87.2	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 9:50:00 AM
Lab ID: 2001727-015 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1-Dichloroethene	1.5	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 9:50:00 AM
Lab ID: 2001727-015 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 3:41:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905
Surr: Toluene-d8	93.7	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 2:22:00 PM
Lab ID: 2001727-016 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	1.5	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1-Dichloroethane	2.2	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 2:22:00 PM
Lab ID: 2001727-016 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 4:04:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905
Surr: Toluene-d8	95.6	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28 Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 2:22:00 PM
Lab ID: 2001727-017 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28 Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 2:22:00 PM
Lab ID: 2001727-017 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 4:28:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905
Surr: Toluene-d8	94.4	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:40:00 PM
Lab ID: 2001727-018 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	8.9	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Toluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Ethylbenzene	29	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Naphthalene	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
1-Methylnaphthalene	ND	20		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Methylnaphthalene	ND	20		µg/L	5	1/20/2020 4:52:00 PM	R65905
Acetone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromodichloromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromoform	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromomethane	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Butanone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Carbon disulfide	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Carbon Tetrachloride	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chloroethane	14	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chloroform	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chloromethane	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Chlorotoluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
4-Chlorotoluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
cis-1,2-DCE	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Dibromochloromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Dibromomethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,3-Dichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,4-Dichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Dichlorodifluoromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1-Dichloroethane	32	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1-Dichloroethene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dichloropropane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,3-Dichloropropane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
2,2-Dichloropropane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:40:00 PM
Lab ID: 2001727-018 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Hexachlorobutadiene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Hexanone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Isopropylbenzene	7.7	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
4-Isopropyltoluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
4-Methyl-2-pentanone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Methylene Chloride	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
n-Butylbenzene	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
n-Propylbenzene	6.4	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
sec-Butylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Styrene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
tert-Butylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
trans-1,2-DCE	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,1-Trichloroethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,2-Trichloroethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Trichloroethene (TCE)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Trichlorofluoromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,3-Trichloropropane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Vinyl chloride	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Xylenes, Total	ND	7.5		µg/L	5	1/20/2020 4:52:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905
Surr: Dibromofluoromethane	93.7	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905
Surr: Toluene-d8	116	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:22:00 PM
Lab ID: 2001727-019 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	26	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Ethylbenzene	1.5	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
cis-1,2-DCE	1.0	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1-Dichloroethane	4.3	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:22:00 PM
Lab ID: 2001727-019 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 5:16:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905
Surr: Dibromofluoromethane	92.8	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905
Surr: Toluene-d8	74.7	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Client Sample ID:** TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell **Collection Date:**
Lab ID: 2001727-020 **Matrix:** TRIP BLANK **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 2001727-020 **Matrix:** TRIP BLANK **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 5:39:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	99.5	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905
Surr: Toluene-d8	94.2	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263271** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.4	70	130			
Toluene	20	1.0	20.00	0	97.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.2	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263272** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.8	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **2001727-001ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-13** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263970** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: **2001727-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-13** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263971** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130	0.0890	20	
Toluene	19	1.0	20.00	0	96.9	70	130	1.96	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **2001727-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-13** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263971** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.3	70	130	0	0	
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130	0	0	
Surr: Toluene-d8	9.5		10.00		95.3	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263310** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.4	70	130			
Toluene	20	1.0	20.00	0	97.6	70	130			
Chlorobenzene	20	1.0	20.00	0	98.5	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.3	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.2	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263311** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R65905**	RunNo: **65905**	
Prep Date:	Analysis Date: **1/20/2020**	SeqNo: **2263311**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263311** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.8	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **2001727** RcptNo: 1

Received By: **John Caldwell** **1/18/2020 8:20:00 AM** John Caldwell

Completed By: **Erin Melendrez** **1/18/2020 10:25:03 AM**

Reviewed By: DAD 1/20/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: ENM 1/18/20

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good				

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: J Haines & S Diamond
Mailing Address: 1880 West Oak Parkway Bldg. 100 Suite 106, Marietta Ga 30062
Phone #: 770.973.2100
email or Fax#: JHaines@earthcon.com
QA/QC Package: Sdiamond@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush
Project Name: EarthCon Consultants Inc. TWP Roswell Station #9
Project #: 02.2012.003700 GW Monitoring 2019
Project Manager: JD Haines, PG
Sampler: CM Barnhill, PE
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.8+0.1(CF)=3.9(°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2001727	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260(VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260
01/08/20	1620	H_2O	MW-13	3x40ml VOA's	HCl	-001											X
01/07/20	0941	H_2O	MW-14			-002											X
01/07/20	0941	H_2O	MW-14 Duplicate			-003											X
01/06/20	14:31	H_2O	MW-22			-004								X			
01/06/20	14:31	H_2O	MW-22 Equipment Rinsate			-005								X			
01/06/20	15:21	H_2O	MW-20			-006								X			
01/06/20	15:21	H_2O	MW-20 Duplicate			-007								X			
01/07/20	10:35	H_2O	MW-24D			-008											X
01/07/20	10:35	H_2O	MW-24D Equipment Rinsate			-009											X
01/06/20	16:21	H_2O	MW-26			-010								X			
01/07/20	11:45	H_2O	MW-39			-011								X			
01/08/20	10:15	H_2O	MW-40			-012								X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/16/20	0820				1-16-20	0820
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Any Questions? Please Call CMB @ 575.626.161[illegible]

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

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

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

Client: EarthCon Consultants, Inc.
ATTN: J Haines & S Diamond
Mailing Address: 1660 West Oak Parkway Bldg 100 Suite 106, Marietta, Ga 30062
Phone #: 770.973.2100
email or Fax#: JHaines@earthcon.com
QA/QC Package: SDiamond@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush
Project Name: EarthCon Consultants, Inc TWP Roswell Station #9
Project #: 02.2012.003200 GW Monitoring 2019
Project Manager: J Haines, PG
Sampler: CM Barnhill PG
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.8+0.1(CF)=3.9 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2001727
01/08/20	10:41	H_2O	MW-41	3x40mL VOA's	HCl	-013
01/08/20	0930	H_2O	MW-42			-014
01/08/20	0950	H_2O	MW-42 Duplicate			-015
01/08/20	14:22	H_2O	SVE-28			-016
01/08/20	14:22	H_2O	SVE-28 Equipment Rinsate			-017
01/08/20	15:40	H_2O	SVE-30			-018
01/08/20	15:22	H_2O	RW-1			-019
			Trip Blank	2x40mL VOA's	HCl	-020

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260
							X			
							X			
							X			
							X			
							X			
							X			
							X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
01/15/20	0820				1.18.20	0820
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Any Questions? Please Call CMB @ 575.626.1615

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

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-10
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 2:25:00 PM
Lab ID: 2002590-001 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 12:25:34 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 12:25:34 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 12:25:34 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 12:25:34 PM	R66589
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589
Surr: Dibromofluoromethane	109	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589
Surr: Toluene-d8	109	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-10 Duplicate
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 2:25:00 PM
Lab ID: 2002590-002 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 12:55:32 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 12:55:32 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 12:55:32 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 12:55:32 PM	R66589
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589
Surr: Dibromofluoromethane	108	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589
Surr: Toluene-d8	104	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-11
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:00:00 PM
Lab ID: 2002590-003 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 1:24:51 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 1:24:51 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 1:24:51 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 1:24:51 PM	R66589
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589
Surr: Dibromofluoromethane	110	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589
Surr: Toluene-d8	104	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-11 Equipment Blank
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:00:00 PM
Lab ID: 2002590-004 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 1:54:44 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 1:54:44 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 1:54:44 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 1:54:44 PM	R66589
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589
Surr: Dibromofluoromethane	107	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589
Surr: Toluene-d8	103	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-17
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:40:00 PM
Lab ID: 2002590-005 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 11:56:04 AM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 11:56:04 AM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 11:56:04 AM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 11:56:04 AM	R66589
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589
Surr: Dibromofluoromethane	104	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589
Surr: Toluene-d8	108	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Field Blank
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:45:00 PM
Lab ID: 2002590-006 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 2:24:03 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 2:24:03 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 2:24:03 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 2:24:03 PM	R66589
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589
Surr: Dibromofluoromethane	114	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589
Surr: Toluene-d8	103	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Appendix C

Analytical Data Packages – SVE and Groundwater Treatment System Sampling

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 27, 2019

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: TWP Roswell Station 9 Earthcon Consultants Inc. OrderNo.: 1909899

Dear JD Haines:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/17/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 1:45:00 PM
Lab ID: 1909899-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	4600	100		µg/L	100	9/19/2019 3:33:32 PM	B63046
Toluene	5400	100		µg/L	100	9/19/2019 3:33:32 PM	B63046
Ethylbenzene	240	100		µg/L	100	9/19/2019 3:33:32 PM	B63046
Xylenes, Total	2300	200		µg/L	100	9/19/2019 3:33:32 PM	B63046
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	100	9/19/2019 3:33:32 PM	B63046

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Air Stripper
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 1:55:00 PM
Lab ID: 1909899-002 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	5.0	1.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Toluene	6.2	1.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Xylenes, Total	3.6	2.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	9/19/2019 6:17:36 PM	B63046

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GAC's
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:00:00 PM
Lab ID: 1909899-003 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.1	1.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Toluene	ND	1.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Xylenes, Total	ND	2.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	9/19/2019 6:41:01 PM	B63046

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:10:00 PM
Lab ID: 1909899-004 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Fluoride	0.98	0.10		mg/L	1	9/18/2019 5:05:18 AM	A63001
Chloride	440	25	*	mg/L	50	9/24/2019 1:56:05 AM	A63112
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	9/18/2019 5:17:38 AM	A63001
Bromide	0.30	0.10		mg/L	1	9/18/2019 5:05:18 AM	A63001
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	9/18/2019 5:05:18 AM	A63001
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	9/24/2019 1:43:13 AM	A63112
Sulfate	800	10	*	mg/L	20	9/18/2019 5:17:38 AM	A63001
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **bcv**	
Calcium	290	10		mg/L	10	9/24/2019 4:35:32 PM	B63181
Magnesium	110	10		mg/L	10	9/24/2019 4:35:32 PM	B63181
Potassium	2.2	1.0		mg/L	1	9/24/2019 4:33:27 PM	B63181
Sodium	220	10		mg/L	10	9/24/2019 4:35:32 PM	B63181
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Toluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Naphthalene	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Acetone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromodichloromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromoform	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromomethane	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Butanone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Carbon disulfide	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Carbon Tetrachloride	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chloroethane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chloroform	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chloromethane	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
4-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:10:00 PM
Lab ID: 1909899-004 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
cis-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Dibromochloromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Dibromomethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1-Dichloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1-Dichloroethene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,3-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2,2-Dichloropropane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Hexachlorobutadiene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Hexanone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Isopropylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
4-Isopropyltoluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
4-Methyl-2-pentanone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Methylene Chloride	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
n-Butylbenzene	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
n-Propylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
sec-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Styrene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
tert-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
trans-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Trichlorofluoromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Vinyl chloride	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:10:00 PM
Lab ID: 1909899-004 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Xylenes, Total	ND	1.5		µg/L	1	9/19/2019 6:41:31 PM	A63060
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060
Surr: Toluene-d8	103	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date:
Lab ID: 1909899-005
Matrix: TRIP BLANK
Received Date: 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Toluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Naphthalene	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Acetone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromodichloromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromoform	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromomethane	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Butanone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Carbon disulfide	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Carbon Tetrachloride	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chloroethane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chloroform	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chloromethane	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
4-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
cis-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Dibromochloromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Dibromomethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1-Dichloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1-Dichloroethene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,3-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2,2-Dichloropropane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date:
Lab ID: 1909899-005
Matrix: TRIP BLANK
Received Date: 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Hexachlorobutadiene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Hexanone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Isopropylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
4-Isopropyltoluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
4-Methyl-2-pentanone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Methylene Chloride	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
n-Butylbenzene	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
n-Propylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
sec-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Styrene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
tert-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
trans-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Trichlorofluoromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Vinyl chloride	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Xylenes, Total	ND	1.5		µg/L	1	9/19/2019 8:08:19 PM	A63060
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060
Surr: Toluene-d8	99.7	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **MB-B** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **B63181** RunNo: **63181**
Prep Date: Analysis Date: **9/24/2019** SeqNo: **2155515** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS-B** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **B63181** RunNo: **63181**
Prep Date: Analysis Date: **9/24/2019** SeqNo: **2155517** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	112	50	150			
Magnesium	ND	1.0	0.5000	0	104	50	150			
Potassium	ND	1.0	0.5000	0	96.0	50	150			
Sodium	ND	1.0	0.5000	0	110	50	150			

Sample ID: **LCS-B** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **B63181** RunNo: **63181**
Prep Date: Analysis Date: **9/24/2019** SeqNo: **2155519** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	50	1.0	50.00	0	99.9	85	115			
Sodium	50	1.0	50.00	0	99.4	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A63001**	RunNo: **63001**
Prep Date:	Analysis Date: **9/18/2019**	SeqNo: **2147883** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A63001**	RunNo: **63001**
Prep Date:	Analysis Date: **9/18/2019**	SeqNo: **2147884** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.0	90	110			
Nitrogen, Nitrite (As N)	0.93	0.10	1.000	0	93.4	90	110			
Bromide	2.4	0.10	2.500	0	95.4	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	95.8	90	110			
Sulfate	9.4	0.50	10.00	0	94.2	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A63112**	RunNo: **63112**
Prep Date:	Analysis Date: **9/23/2019**	SeqNo: **2154081** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A63112**	RunNo: **63112**
Prep Date:	Analysis Date: **9/23/2019**	SeqNo: **2154082** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.1	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW** Batch ID: **B63046** RunNo: **63046**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150207** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		92.9	80	120			

Sample ID: **100NG BTEX LCSB** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW** Batch ID: **B63046** RunNo: **63046**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150208** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.3	80	120			
Toluene	20	1.0	20.00	0	98.0	80	120			
Ethylbenzene	20	1.0	20.00	0	98.2	80	120			
Xylenes, Total	59	2.0	60.00	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		97.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **A63060**	RunNo: **63060**	
Prep Date:	Analysis Date: **9/19/2019**	SeqNo: **2150226**	Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150226** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	8.0		10.00		80.0	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	115	70	130			
Toluene	19	1.0	20.00	0	94.5	70	130			
Chlorobenzene	18	1.0	20.00	0	91.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16	1.0	20.00	0	82.4	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	91.5	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	8.3		10.00		82.8	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Sample ID: **1909899-004a ms** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Post Treatment** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150259** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	70	130			
Toluene	19	1.0	20.00	0	92.5	70	130			
Chlorobenzene	18	1.0	20.00	0	88.2	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	81.5	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	88.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	8.0		10.00		79.9	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: **1909899-004a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Post Treatment** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150260** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130	4.86	20	
Toluene	18	1.0	20.00	0	90.6	70	130	2.09	20	
Chlorobenzene	17	1.0	20.00	0	87.2	70	130	1.13	20	
1,1-Dichloroethene	15	1.0	20.00	0	77.4	70	130	5.05	20	
Trichloroethene (TCE)	17	1.0	20.00	0	83.1	70	130	6.39	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	7.9		10.00		79.2	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	9.6		10.00		95.8	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **1909899** RcptNo: **1**

Received By: **Yazmine Garduno** **9/17/2019 9:55:00 AM**

Completed By: **Desiree Dominguez** **9/17/2019 4:11:30 PM**

Reviewed By: ENM 9/17/19 300combo
ENM 9/18/19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	UPS		

Log In

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

# of preserved bottles checked for pH: 1 (2) (<2 or >12 unless noted)
Adjusted? no / no
300ml combo
Checked by: YG 9/17/19

DM 9/18/19

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Not Present			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: JHaines, JFrench, J. Wilson
Mailing Address: 880 West Oak Parkway Bldg 100 Suite 106, Marietta Ga. 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: JFrench@earthcon.com JHaines@earthcon.com
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush
Project Name: EarthCon Consultants, Inc. TWP Roswell Station #9
Project #: 02.2012.0037.00 Monthly Discharge Water Sampling September 2019
Project Manager: JD Haines, P.E.
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 3.4 - 0.1 = 3.1 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1909899	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Dissolved metals	Ca, Mg, K, Na	* Field Filtered	0 - Phosphorus	Bromide
09/16/19	13:45	H_2O	Pre-Treatment	3x40mL VOA's	HCL	-001	X														
09/16/19	13:55	H_2O	Post Air Stripper	3x40mL VOA's	HCL	-002	X														
09/16/19	1400	H_2O	Between GAC's	3x40mL VOA's	HCL	-003	X														
09/16/19	1410	H_2O	Post Treatment	3x40mL VOA's	HCL	-004							X	X			X	X	X	X	X
			* HNO_3 Field Filtered	1x125mL HDPE	H_2SO_4 / HNO_3																
				1x500mL HDPE	None																
		H_2O	** Trip Blank	1x40mL VOA	HCL	-005															

Remarks: Any questions please call CMB 575.626.1615 Send Results ASAP to: JFrench@earthcon.com JHaines@earthcon.com

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
09/16/19	16:10					
Date	Time	Relinquished by:	Received by:	Via:	Date	Time
			VN	UPS	9/17/19	0955

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 18, 2019

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 1910F09

Dear JD Haines:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/30/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 10:55:00 AM
Lab ID: 1910F09-001 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	4500	100		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Toluene	5000	100		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Ethylbenzene	190	100		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Xylenes, Total	2200	150		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64
Surr: Dibromofluoromethane	98.7	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64
Surr: Toluene-d8	96.2	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Air Stripper
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:00:00 AM
Lab ID: 1910F09-002 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	44	1.0		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Toluene	52	1.0		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Ethylbenzene	1.9	1.0		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Xylenes, Total	36	1.5		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64
Surr: Dibromofluoromethane	100	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64
Surr: Toluene-d8	96.9	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GACs
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:05:00 AM
Lab ID: 1910F09-003 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	17	1.0		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Toluene	18	1.0		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Ethylbenzene	ND	1.0		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Xylenes, Total	9.2	1.5		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64
Surr: Toluene-d8	95.8	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:10:00 AM
Lab ID: 1910F09-004 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Bromide	0.41	0.10		mg/L	1	10/30/2019 6:22:47 PM	R64108
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	10/30/2019 6:22:47 PM	R64108
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **bcv**	
Calcium	320	5.0		mg/L	5	11/15/2019 10:26:46 AM	A64544
Magnesium	110	5.0		mg/L	5	11/15/2019 10:26:46 AM	A64544
Potassium	2.1	1.0		mg/L	1	11/15/2019 10:24:41 AM	A64544
Sodium	200	5.0		mg/L	5	11/15/2019 10:26:46 AM	A64544
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Toluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Ethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Naphthalene	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Acetone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromodichloromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromoform	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromomethane	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Butanone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Carbon disulfide	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Carbon Tetrachloride	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chloroethane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chloroform	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chloromethane	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
4-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
cis-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Dibromochloromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Dibromomethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:10:00 AM
Lab ID: 1910F09-004 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1-Dichloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1-Dichloroethene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,3-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2,2-Dichloropropane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Hexachlorobutadiene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Hexanone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Isopropylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
4-Isopropyltoluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
4-Methyl-2-pentanone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Methylene Chloride	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
n-Butylbenzene	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
n-Propylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
sec-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Styrene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
tert-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
trans-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Trichlorofluoromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Vinyl chloride	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Xylenes, Total	ND	1.5		µg/L	1	11/1/2019 4:14:00 PM	R64154
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154
Surr: Toluene-d8	95.3	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 1910F09-005
Matrix: TRIP BLANK
Received Date: 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Toluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Ethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Naphthalene	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Acetone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromodichloromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromoform	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromomethane	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Butanone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Carbon disulfide	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Carbon Tetrachloride	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chloroethane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chloroform	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chloromethane	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
4-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
cis-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Dibromochloromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Dibromomethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1-Dichloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1-Dichloroethene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,3-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2,2-Dichloropropane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 1910F09-005
Matrix: TRIP BLANK
Received Date: 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Hexachlorobutadiene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Hexanone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Isopropylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
4-Isopropyltoluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
4-Methyl-2-pentanone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Methylene Chloride	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
n-Butylbenzene	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
n-Propylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
sec-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Styrene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
tert-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
trans-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Trichlorofluoromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Vinyl chloride	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Xylenes, Total	ND	1.5		µg/L	1	11/1/2019 4:38:00 PM	R64154
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154
Surr: Toluene-d8	96.5	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **MB-A** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A64544** RunNo: **64544**
Prep Date: Analysis Date: **11/15/2019** SeqNo: **2210119** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS-A** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A64544** RunNo: **64544**
Prep Date: Analysis Date: **11/15/2019** SeqNo: **2210120** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	105	50	150			
Magnesium	ND	1.0	0.5000	0	101	50	150			
Potassium	ND	1.0	0.5000	0	117	50	150			
Sodium	ND	1.0	0.5000	0	97.6	50	150			

Sample ID: **LCS-A** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A64544** RunNo: **64544**
Prep Date: Analysis Date: **11/15/2019** SeqNo: **2210121** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	85	115			
Magnesium	50	1.0	50.00	0	99.4	85	115			
Potassium	50	1.0	50.00	0	99.7	85	115			
Sodium	50	1.0	50.00	0	99.7	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193571** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193572** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.5	0.10	2.500	0	99.5	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	96.5	90	110			

Sample ID: **1910F09-004BMS**	SampType: **ms**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Post-Treatment**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193594** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.8	0.10	2.500	0.4074	95.1	81.9	109			
Phosphorus, Orthophosphate (As P	3.5	0.50	5.000	0	69.4	75.6	113			S

Sample ID: **1910F09-004BMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Post-Treatment**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193595** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.8	0.10	2.500	0.4074	94.9	81.9	109	0.101	20	
Phosphorus, Orthophosphate (As P	3.5	0.50	5.000	0	69.9	75.6	113	0.703	20	S

Qualifiers:

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D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL_W64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2196634** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	93.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.3	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: **rb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL_W64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2196635** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2195980** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	93.3	70	130			
Chlorobenzene	19	1.0	20.00	0	94.9	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.0	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.3	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: **rb1** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2195981** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R64154**	RunNo: **64154**	
Prep Date:	Analysis Date: **11/1/2019**	SeqNo: **2195981**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R64154**	RunNo: **64154**	
Prep Date:	Analysis Date: **11/1/2019**	SeqNo: **2195981**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EARTH CON | Work Order Number: 1910F09 | RcptNo: 1

Received By: Juan Rojas 10/30/2019 10:25:00 AM

Completed By: Leah Baca 10/30/2019 10:57:52 AM Leah S Baca

Reviewed By: DAD 10/30/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

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

# of preserved bottles checked for pH: 2 (<2 or >12 unless noted)
Adjusted? yes
Checked by: DM 10/30/19

Special Handling (if applicable)

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

Person Notified: | Date:
By Whom: | Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks: added ~0.5mL of HNO3 to sample 004C for pH <2. DM 10/30/19
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Not Present			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc
ATTN: J. French, J Haines
Mailing Address: 880 West Oak Parkway, Bldg, Suite 106, Marietta, GA 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: jfrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____
Project Name: Earthcon Consultants, Inc TWP Roswell Station 9
Project #: 02, 2012, 003700 Monthly Discharge Water Sampling October 2019
Project Manager: JD Haines, PE
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature: 3.9 - 0.4 = 3.5

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1910F09	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F^-, Cl^-, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) Full List	8270 (Semi-VOA)	Dissolved metals	Ca, Mg, K, Na	* Field Filtered	O-phosphorus, Bromide	Air Bubbles (Y or N)
10/29/19	10:35	H_2O	Pre-Treatment	3x40mL VOA's	HCL	-001	X															
10/29/19	11:00	H_2O	Post-Air Stripper	3x40mL VOA's	HCL	-002	X															
10/29/19	11:05	H_2O	Between GAC's	3x40mL VOA's	HCL	-003	X															
10/29/19	11:10	H_2O	Post-Treatment	3x40mL VOA's	HCL	-004								X		X		X	X	X	X	X
			* HNO_3 Field Filtered	2x125mL	HNO_3/H_2SO_4	-005																
				1x125mL	None																	

Date: 10/29/19 Time: 1645 Relinquished by: [signature]
Received by: [signature] Via: UPS Date: 10/30/19 Time: 10:25
Date: Time: Relinquished by:
Received by: Date Time

Remarks: Send Results ASAP To JHaines@earthcon.com, JFrench@earthcon.com
For Questions Call CMB @ 5756261

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

18-Apr-2019

Emma Cook
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station 9 Work Order: **1904472**

Dear Emma,

ALS Environmental received 2 samples on 05-Apr-2019 12:12 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 18-Apr-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: **1904472**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1904472-01	TWP West Baker Furnace	Air		4/2/2019	4/5/2019 12:12	☐
1904472-02	TWP East Baker Furnace	Air		4/2/2019	4/5/2019 12:12	☐

ALS Environmental

Date: 18-Apr-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: 1904472

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9
Sample ID: TWP West Baker Furnace
Collection Date: 4/2/2019

Work Order: 1904472
Lab ID: 1904472-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1-Dichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1-Dichloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dibromoethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dichloropropane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,3-Butadiene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,4-Dioxane	ND		500	ppbv	500	4/12/2019 11:34 PM
2-Butanone	ND		250	ppbv	500	4/12/2019 11:34 PM
2-Hexanone	ND		500	ppbv	500	4/12/2019 11:34 PM
2-Propanol	ND		500	ppbv	500	4/12/2019 11:34 PM
4-Ethyltoluene	ND		250	ppbv	500	4/12/2019 11:34 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	4/12/2019 11:34 PM
Acetone	ND		500	ppbv	500	4/12/2019 11:34 PM
Benzene	**680**		**250**	**ppbv**	500	4/12/2019 11:34 PM
Benzyl chloride	ND		250	ppbv	500	4/12/2019 11:34 PM
Bromodichloromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Bromoform	ND		250	ppbv	500	4/12/2019 11:34 PM
Bromomethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Carbon disulfide	ND		250	ppbv	500	4/12/2019 11:34 PM
Carbon tetrachloride	ND		250	ppbv	500	4/12/2019 11:34 PM
Chlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
Chloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Chloroform	ND		100	ppbv	500	4/12/2019 11:34 PM
Chloromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	4/12/2019 11:34 PM
Cumene	ND		250	ppbv	500	4/12/2019 11:34 PM
Cyclohexane	**22,000**		**5,000**	**ppbv**	10000	4/12/2019 09:21 PM
Dibromochloromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Dichlorodifluoromethane	ND		250	ppbv	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP West Baker Furnace **Lab ID:** 1904472-01
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	4/12/2019 11:34 PM
Ethylbenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
Freon 113	ND		250	ppbv	500	4/12/2019 11:34 PM
Freon 114	ND		250	ppbv	500	4/12/2019 11:34 PM
Heptane	**11,000**		**250**	**ppbv**	500	4/12/2019 11:34 PM
Hexachlorobutadiene	ND		250	ppbv	500	4/12/2019 11:34 PM
Hexane	**36,000**		**5,000**	**ppbv**	10000	4/12/2019 09:21 PM
m,p-Xylene	**440**		**250**	**ppbv**	500	4/12/2019 11:34 PM
Methylene chloride	ND		1,000	ppbv	500	4/12/2019 11:34 PM
MTBE	ND		250	ppbv	500	4/12/2019 11:34 PM
Naphthalene	ND		100	ppbv	500	4/12/2019 11:34 PM
o-Xylene	ND		250	ppbv	500	4/12/2019 11:34 PM
Propene	ND		250	ppbv	500	4/12/2019 11:34 PM
Styrene	ND		250	ppbv	500	4/12/2019 11:34 PM
Tetrachloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
Tetrahydrofuran	ND		250	ppbv	500	4/12/2019 11:34 PM
Toluene	**910**		**250**	**ppbv**	500	4/12/2019 11:34 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	4/12/2019 11:34 PM
Trichloroethene	ND		100	ppbv	500	4/12/2019 11:34 PM
Trichlorofluoromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Vinyl acetate	ND		250	ppbv	500	4/12/2019 11:34 PM
Vinyl chloride	ND		250	ppbv	500	4/12/2019 11:34 PM
Surr: Bromofluorobenzene	*96.2*		*60-140*	*%REC*	500	4/12/2019 11:34 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	4/12/2019 11:34 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	4/12/2019 11:34 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	4/12/2019 11:34 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	4/12/2019 11:34 PM
1,1-Dichloroethene	ND		991	µg/m3	500	4/12/2019 11:34 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	4/12/2019 11:34 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	4/12/2019 11:34 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	4/12/2019 11:34 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	4/12/2019 11:34 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	4/12/2019 11:34 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
1,3-Butadiene	ND		553	µg/m3	500	4/12/2019 11:34 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	4/12/2019 11:34 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP West Baker Furnace **Lab ID:** 1904472-01
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	4/12/2019 11:34 PM
2-Butanone	ND		737	µg/m3	500	4/12/2019 11:34 PM
2-Hexanone	ND		2,050	µg/m3	500	4/12/2019 11:34 PM
2-Propanol	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	4/12/2019 11:34 PM
Acetone	ND		1,190	µg/m3	500	4/12/2019 11:34 PM
Benzene	**2,160**		**799**	**µg/m3**	500	4/12/2019 11:34 PM
Benzyl chloride	ND		1,290	µg/m3	500	4/12/2019 11:34 PM
Bromodichloromethane	ND		1,680	µg/m3	500	4/12/2019 11:34 PM
Bromoform	ND		2,580	µg/m3	500	4/12/2019 11:34 PM
Bromomethane	ND		971	µg/m3	500	4/12/2019 11:34 PM
Carbon disulfide	ND		778	µg/m3	500	4/12/2019 11:34 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	4/12/2019 11:34 PM
Chlorobenzene	ND		1,150	µg/m3	500	4/12/2019 11:34 PM
Chloroethane	ND		660	µg/m3	500	4/12/2019 11:34 PM
Chloroform	ND		488	µg/m3	500	4/12/2019 11:34 PM
Chloromethane	ND		516	µg/m3	500	4/12/2019 11:34 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	4/12/2019 11:34 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/12/2019 11:34 PM
Cumene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
Cyclohexane	**76,800**		**17,200**	**µg/m3**	10000	4/12/2019 09:21 PM
Dibromochloromethane	ND		2,130	µg/m3	500	4/12/2019 11:34 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	4/12/2019 11:34 PM
Ethyl acetate	ND		901	µg/m3	500	4/12/2019 11:34 PM
Ethylbenzene	ND		1,090	µg/m3	500	4/12/2019 11:34 PM
Freon 113	ND		1,920	µg/m3	500	4/12/2019 11:34 PM
Freon 114	ND		1,750	µg/m3	500	4/12/2019 11:34 PM
Heptane	**46,000**		**1,020**	**µg/m3**	500	4/12/2019 11:34 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	4/12/2019 11:34 PM
Hexane	**127,000**		**17,600**	**µg/m3**	10000	4/12/2019 09:21 PM
m,p-Xylene	**1,910**		**1,090**	**µg/m3**	500	4/12/2019 11:34 PM
Methylene chloride	ND		3,500	µg/m3	500	4/12/2019 11:34 PM
MTBE	ND		901	µg/m3	500	4/12/2019 11:34 PM
Naphthalene	ND		524	µg/m3	500	4/12/2019 11:34 PM
o-Xylene	ND		1,090	µg/m3	500	4/12/2019 11:34 PM
Propene	ND		430	µg/m3	500	4/12/2019 11:34 PM
Styrene	ND		1,060	µg/m3	500	4/12/2019 11:34 PM
Tetrachloroethene	ND		1,700	µg/m3	500	4/12/2019 11:34 PM
Tetrahydrofuran	ND		737	µg/m3	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP West Baker Furnace **Lab ID:** 1904472-01
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**3,430**		**942**	**µg/m3**	500	4/12/2019 11:34 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	4/12/2019 11:34 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/12/2019 11:34 PM
Trichloroethene	ND		537	µg/m3	500	4/12/2019 11:34 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	4/12/2019 11:34 PM
Vinyl acetate	ND		880	µg/m3	500	4/12/2019 11:34 PM
Vinyl chloride	ND		639	µg/m3	500	4/12/2019 11:34 PM
Surr: Bromofluorobenzene	*96.2*		*60-140*	*%REC*	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP East Baker Furnace **Lab ID:** 1904472-02
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1,2-Trichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1-Dichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1-Dichloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dibromoethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dichloropropane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,3-Butadiene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,4-Dichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,4-Dioxane	ND		500	ppbv	500	4/13/2019 01:02 AM
2-Butanone	ND		250	ppbv	500	4/13/2019 01:02 AM
2-Hexanone	ND		500	ppbv	500	4/13/2019 01:02 AM
2-Propanol	ND		500	ppbv	500	4/13/2019 01:02 AM
4-Ethyltoluene	ND		250	ppbv	500	4/13/2019 01:02 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	4/13/2019 01:02 AM
Acetone	**1,200**		**500**	**ppbv**	500	4/13/2019 01:02 AM
Benzene	ND		250	ppbv	500	4/13/2019 01:02 AM
Benzyl chloride	ND		250	ppbv	500	4/13/2019 01:02 AM
Bromodichloromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Bromoform	ND		250	ppbv	500	4/13/2019 01:02 AM
Bromomethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Carbon disulfide	ND		250	ppbv	500	4/13/2019 01:02 AM
Carbon tetrachloride	ND		250	ppbv	500	4/13/2019 01:02 AM
Chlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
Chloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Chloroform	ND		100	ppbv	500	4/13/2019 01:02 AM
Chloromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	4/13/2019 01:02 AM
Cumene	ND		250	ppbv	500	4/13/2019 01:02 AM
Cyclohexane	**4,600**		**250**	**ppbv**	500	4/13/2019 01:02 AM
Dibromochloromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Dichlorodifluoromethane	ND		250	ppbv	500	4/13/2019 01:02 AM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP East Baker Furnace **Lab ID:** 1904472-02
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	4/13/2019 01:02 AM
Ethylbenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
Freon 113	ND		250	ppbv	500	4/13/2019 01:02 AM
Freon 114	ND		250	ppbv	500	4/13/2019 01:02 AM
Heptane	**3,500**		**250**	**ppbv**	500	4/13/2019 01:02 AM
Hexachlorobutadiene	ND		250	ppbv	500	4/13/2019 01:02 AM
Hexane	**6,100**		**250**	**ppbv**	500	4/13/2019 01:02 AM
m,p-Xylene	ND		250	ppbv	500	4/13/2019 01:02 AM
Methylene chloride	ND		1,000	ppbv	500	4/13/2019 01:02 AM
MTBE	ND		250	ppbv	500	4/13/2019 01:02 AM
Naphthalene	ND		100	ppbv	500	4/13/2019 01:02 AM
o-Xylene	ND		250	ppbv	500	4/13/2019 01:02 AM
Propene	ND		250	ppbv	500	4/13/2019 01:02 AM
Styrene	ND		250	ppbv	500	4/13/2019 01:02 AM
Tetrachloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
Tetrahydrofuran	ND		250	ppbv	500	4/13/2019 01:02 AM
Toluene	ND		250	ppbv	500	4/13/2019 01:02 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	4/13/2019 01:02 AM
Trichloroethene	ND		100	ppbv	500	4/13/2019 01:02 AM
Trichlorofluoromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Vinyl acetate	ND		250	ppbv	500	4/13/2019 01:02 AM
Vinyl chloride	ND		250	ppbv	500	4/13/2019 01:02 AM
Surr: Bromofluorobenzene	*94.0*		*60-140*	*%REC*	500	4/13/2019 01:02 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	4/13/2019 01:02 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	4/13/2019 01:02 AM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	4/13/2019 01:02 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	4/13/2019 01:02 AM
1,1-Dichloroethene	ND		991	µg/m3	500	4/13/2019 01:02 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	4/13/2019 01:02 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
1,2-Dibromoethane	ND		1,920	µg/m3	500	4/13/2019 01:02 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	4/13/2019 01:02 AM
1,2-Dichloroethane	ND		1,010	µg/m3	500	4/13/2019 01:02 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	4/13/2019 01:02 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
1,3-Butadiene	ND		553	µg/m3	500	4/13/2019 01:02 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	4/13/2019 01:02 AM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	4/13/2019 01:02 AM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP East Baker Furnace **Lab ID:** 1904472-02
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	4/13/2019 01:02 AM
2-Butanone	ND		737	µg/m3	500	4/13/2019 01:02 AM
2-Hexanone	ND		2,050	µg/m3	500	4/13/2019 01:02 AM
2-Propanol	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	4/13/2019 01:02 AM
Acetone	**2,890**		**1,190**	**µg/m3**	500	4/13/2019 01:02 AM
Benzene	ND		799	µg/m3	500	4/13/2019 01:02 AM
Benzyl chloride	ND		1,290	µg/m3	500	4/13/2019 01:02 AM
Bromodichloromethane	ND		1,680	µg/m3	500	4/13/2019 01:02 AM
Bromoform	ND		2,580	µg/m3	500	4/13/2019 01:02 AM
Bromomethane	ND		971	µg/m3	500	4/13/2019 01:02 AM
Carbon disulfide	ND		778	µg/m3	500	4/13/2019 01:02 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	4/13/2019 01:02 AM
Chlorobenzene	ND		1,150	µg/m3	500	4/13/2019 01:02 AM
Chloroethane	ND		660	µg/m3	500	4/13/2019 01:02 AM
Chloroform	ND		488	µg/m3	500	4/13/2019 01:02 AM
Chloromethane	ND		516	µg/m3	500	4/13/2019 01:02 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	4/13/2019 01:02 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/13/2019 01:02 AM
Cumene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
Cyclohexane	**15,800**		**861**	**µg/m3**	500	4/13/2019 01:02 AM
Dibromochloromethane	ND		2,130	µg/m3	500	4/13/2019 01:02 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	4/13/2019 01:02 AM
Ethyl acetate	ND		901	µg/m3	500	4/13/2019 01:02 AM
Ethylbenzene	ND		1,090	µg/m3	500	4/13/2019 01:02 AM
Freon 113	ND		1,920	µg/m3	500	4/13/2019 01:02 AM
Freon 114	ND		1,750	µg/m3	500	4/13/2019 01:02 AM
Heptane	**14,500**		**1,020**	**µg/m3**	500	4/13/2019 01:02 AM
Hexachlorobutadiene	ND		2,670	µg/m3	500	4/13/2019 01:02 AM
Hexane	**21,500**		**881**	**µg/m3**	500	4/13/2019 01:02 AM
m,p-Xylene	ND		1,090	µg/m3	500	4/13/2019 01:02 AM
Methylene chloride	ND		3,500	µg/m3	500	4/13/2019 01:02 AM
MTBE	ND		901	µg/m3	500	4/13/2019 01:02 AM
Naphthalene	ND		524	µg/m3	500	4/13/2019 01:02 AM
o-Xylene	ND		1,090	µg/m3	500	4/13/2019 01:02 AM
Propene	ND		430	µg/m3	500	4/13/2019 01:02 AM
Styrene	ND		1,060	µg/m3	500	4/13/2019 01:02 AM
Tetrachloroethene	ND		1,700	µg/m3	500	4/13/2019 01:02 AM
Tetrahydrofuran	ND		737	µg/m3	500	4/13/2019 01:02 AM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9
Sample ID: TWP East Baker Furnace
Collection Date: 4/2/2019

Work Order: 1904472
Lab ID: 1904472-02
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	4/13/2019 01:02 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	4/13/2019 01:02 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/13/2019 01:02 AM
Trichloroethene	ND		537	µg/m3	500	4/13/2019 01:02 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	4/13/2019 01:02 AM
Vinyl acetate	ND		880	µg/m3	500	4/13/2019 01:02 AM
Vinyl chloride	ND		639	µg/m3	500	4/13/2019 01:02 AM
Surr: Bromofluorobenzene	*94.0*		*60-140*	*%REC*	500	4/13/2019 01:02 AM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC **

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 1904472-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	157552	PPBV
	TVOC**	555266	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 1904472-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	43627	PPBV
	TVOC**	153755	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 18-Apr-19

Client: EarthCon

Work Order: 1904472

Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R164147** Units: **ppbv** Analysis Date: **4/12/2019 02:34 PM**

Client ID: Run ID: **VMS4_190412A** SeqNo: **1971767** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1904472
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	9.19	0	*10*	0	*91.9*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1904472
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **lcs-R164147** Units: **ppbv** Analysis Date: **4/12/2019 01:05 PM**
Client ID: Run ID: **VMS4_190412A** SeqNo: **1971765** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.72	0.50	10	0	97.2	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.41	0.50	10	0	104	60-140	0			
1,1,2-Trichloroethane	10	0.50	10	0	100	60-140	0			
1,1-Dichloroethane	9.94	0.50	10	0	99.4	60-140	0			
1,1-Dichloroethene	10.09	0.50	10	0	101	60-140	0			
1,2,4-Trichlorobenzene	8.97	0.50	10	0	89.7	49.3-150	0			
1,2,4-Trimethylbenzene	10.32	0.50	10	0	103	50.1-162	0			
1,2-Dibromoethane	10.21	0.50	10	0	102	60-140	0			
1,2-Dichlorobenzene	10.35	0.50	10	0	104	41.9-141	0			
1,2-Dichloroethane	10.11	0.50	10	0	101	60-140	0			
1,2-Dichloropropane	9.61	0.50	10	0	96.1	60-140	0			
1,3,5-Trimethylbenzene	10.03	0.50	10	0	100	60-140	0			
1,3-Butadiene	10.21	0.50	10	0	102	50.6-140	0			
1,3-Dichlorobenzene	10.32	0.50	10	0	103	60-140	0			
1,4-Dichlorobenzene	10.41	0.50	10	0	104	55.1-145	0			
1,4-Dioxane	9.76	1.0	10	0	97.6	60-140	0			
2-Butanone	10.45	0.50	10	0	104	60-140	0			
2-Hexanone	10.03	1.0	10	0	100	56.2-162	0			
2-Propanol	9.89	1.0	10	0	98.9	60-140	0			
4-Ethyltoluene	10.26	0.50	10	0	103	60-140	0			
4-Methyl-2-pentanone	10.29	1.0	10	0	103	60-140	0			
Acetone	9.82	1.0	10	0	98.2	60-140	0			
Benzene	9.72	0.50	10	0	97.2	60-140	0			
Benzyl chloride	10.5	0.50	10	0	105	31.9-174	0			
Bromodichloromethane	9.91	0.50	10	0	99.1	60-140	0			
Bromoform	9.82	0.50	10	0	98.2	60-140	0			
Bromomethane	10.9	0.50	10	0	109	60-140	0			
Carbon disulfide	9.95	0.50	10	0	99.5	60-140	0			
Carbon tetrachloride	9.76	0.50	10	0	97.6	60-140	0			
Chlorobenzene	9.61	0.50	10	0	96.1	60-140	0			
Chloroethane	10.64	0.50	10	0	106	60-140	0			
Chloroform	9.92	0.20	10	0	99.2	60-140	0			
Chloromethane	10.52	0.50	10	0	105	60-140	0			
cis-1,2-Dichloroethene	10.09	0.50	10	0	101	60-140	0			
cis-1,3-Dichloropropene	10.06	0.50	10	0	101	60-140	0			
Cumene	10.01	0.50	10	0	100	60-140	0			
Cyclohexane	9.66	0.50	10	0	96.6	60-140	0			
Dibromochloromethane	10.11	0.50	10	0	101	60-140	0			
Dichlorodifluoromethane	10.58	0.50	10	0	106	60-140	0			
Ethyl acetate	10.45	0.50	10	0	104	60-140	0			
Ethylbenzene	9.82	0.50	10	0	98.2	60-140	0			
Freon 113	9.82	0.50	10	0	98.2	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1904472
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147**	Instrument ID **VMS4**		Method: **ETO-15**				
Freon 114	10.31	0.50	10	0	103	60-140	0
Heptane	10	0.50	10	0	100	60-140	0
Hexachlorobutadiene	10.24	0.50	10	0	102	60-140	0
Hexane	10.01	0.50	10	0	100	60-140	0
m,p-Xylene	19.88	0.50	20	0	99.4	60-140	0
Methylene chloride	9.72	2.0	10	0	97.2	60-140	0
MTBE	9.98	0.50	10	0	99.8	60.8-151	0
Naphthalene	8.96	0.20	10	0	89.6	53.1-152	0
o-Xylene	9.86	0.50	10	0	98.6	60-140	0
Propene	10.8	0.50	10	0	108	34.4-139	0
Styrene	10.22	0.50	10	0	102	60-140	0
Tetrachloroethene	9.72	0.50	10	0	97.2	60-140	0
Tetrahydrofuran	9.74	0.50	10	0	97.4	60-140	0
Toluene	10.01	0.50	10	0	100	60-140	0
trans-1,2-Dichloroethene	9.46	0.50	10	0	94.6	60-140	0
trans-1,3-Dichloropropene	9.87	0.50	10	0	98.7	60-140	0
Trichloroethene	9.67	0.20	10	0	96.7	60-140	0
Trichlorofluoromethane	10.09	0.50	10	0	101	60-140	0
Vinyl acetate	10.66	0.50	10	0	107	48.4-145	0
Vinyl chloride	12.53	0.50	10	0	125	60-140	0
Surr: Bromofluorobenzene	10.19	0	*10*	0	*102*	*60-140*	0

The following samples were analyzed in this batch: 1904472-01A 1904472-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 18-Apr-19

Client: EarthCon
Project: TWP Roswell Station 9
WorkOrder: **1904472**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **05-Apr-19 12:12**

Work Order: **1904472** Received by: **SNH**

Checklist completed by Stephanie Harrington 07-Apr-19 Reviewed by: Shawn Smythe 08-Apr-19
eSignature Date eSignature Date

Matrices:
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

10-Jul-2019

Jordon French
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station 9 Work Order: **19061022**

Dear Jordon,

ALS Environmental received 2 samples on 18-Jun-2019 10:18 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 10-Jul-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: **19061022**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19061022-01	TWP West Baker Furnace	Air		6/14/2019	6/18/2019 10:18	☐
19061022-02	TWP East Baker Furnace	Air		6/14/2019	6/18/2019 10:18	☐

ALS Environmental

Date: 10-Jul-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: 19061022

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9
Sample ID: TWP West Baker Furnace
Collection Date: 6/14/2019

Work Order: 19061022
Lab ID: 19061022-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1-Dichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1-Dichloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dibromoethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dichloropropane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,3-Butadiene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,4-Dioxane	ND		500	ppbv	500	6/27/2019 09:00 PM
2-Butanone	ND		250	ppbv	500	6/27/2019 09:00 PM
2-Hexanone	ND		500	ppbv	500	6/27/2019 09:00 PM
2-Propanol	ND		500	ppbv	500	6/27/2019 09:00 PM
4-Ethyltoluene	ND		250	ppbv	500	6/27/2019 09:00 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	6/27/2019 09:00 PM
Acetone	ND		500	ppbv	500	6/27/2019 09:00 PM
Benzene	**1,200**		**250**	**ppbv**	500	6/27/2019 09:00 PM
Benzyl chloride	ND		250	ppbv	500	6/27/2019 09:00 PM
Bromodichloromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Bromoform	ND		250	ppbv	500	6/27/2019 09:00 PM
Bromomethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Carbon disulfide	ND		250	ppbv	500	6/27/2019 09:00 PM
Carbon tetrachloride	ND		250	ppbv	500	6/27/2019 09:00 PM
Chlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
Chloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Chloroform	ND		100	ppbv	500	6/27/2019 09:00 PM
Chloromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 09:00 PM
Cumene	ND		250	ppbv	500	6/27/2019 09:00 PM
Cyclohexane	**43,000**		**2,500**	**ppbv**	5000	6/27/2019 08:16 PM
Dibromochloromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Dichlorodifluoromethane	ND		250	ppbv	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP West Baker Furnace **Lab ID:** 19061022-01
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	6/27/2019 09:00 PM
Ethylbenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
Freon 113	ND		250	ppbv	500	6/27/2019 09:00 PM
Freon 114	ND		250	ppbv	500	6/27/2019 09:00 PM
Heptane	**36,000**		**2,500**	**ppbv**	5000	6/27/2019 08:16 PM
Hexachlorobutadiene	ND		250	ppbv	500	6/27/2019 09:00 PM
Hexane	**74,000**		**2,500**	**ppbv**	5000	6/27/2019 08:16 PM
m,p-Xylene	**820**		**250**	**ppbv**	500	6/27/2019 09:00 PM
Methylene chloride	ND		1,000	ppbv	500	6/27/2019 09:00 PM
MTBE	ND		250	ppbv	500	6/27/2019 09:00 PM
Naphthalene	ND		100	ppbv	500	6/27/2019 09:00 PM
o-Xylene	ND		250	ppbv	500	6/27/2019 09:00 PM
Propene	ND		250	ppbv	500	6/27/2019 09:00 PM
Styrene	ND		250	ppbv	500	6/27/2019 09:00 PM
Tetrachloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
Tetrahydrofuran	ND		250	ppbv	500	6/27/2019 09:00 PM
Toluene	**1,400**		**250**	**ppbv**	500	6/27/2019 09:00 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 09:00 PM
Trichloroethene	ND		100	ppbv	500	6/27/2019 09:00 PM
Trichlorofluoromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Vinyl acetate	ND		250	ppbv	500	6/27/2019 09:00 PM
Vinyl chloride	ND		250	ppbv	500	6/27/2019 09:00 PM
Surr: Bromofluorobenzene	*98.9*		*60-140*	*%REC*	500	6/27/2019 09:00 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 09:00 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	6/27/2019 09:00 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 09:00 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 09:00 PM
1,1-Dichloroethene	ND		991	µg/m3	500	6/27/2019 09:00 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	6/27/2019 09:00 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	6/27/2019 09:00 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 09:00 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 09:00 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	6/27/2019 09:00 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
1,3-Butadiene	ND		553	µg/m3	500	6/27/2019 09:00 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 09:00 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP West Baker Furnace **Lab ID:** 19061022-01
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	6/27/2019 09:00 PM
2-Butanone	ND		737	µg/m3	500	6/27/2019 09:00 PM
2-Hexanone	ND		2,050	µg/m3	500	6/27/2019 09:00 PM
2-Propanol	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	6/27/2019 09:00 PM
Acetone	ND		1,190	µg/m3	500	6/27/2019 09:00 PM
Benzene	**3,850**		**799**	**µg/m3**	500	6/27/2019 09:00 PM
Benzyl chloride	ND		1,290	µg/m3	500	6/27/2019 09:00 PM
Bromodichloromethane	ND		1,680	µg/m3	500	6/27/2019 09:00 PM
Bromoform	ND		2,580	µg/m3	500	6/27/2019 09:00 PM
Bromomethane	ND		971	µg/m3	500	6/27/2019 09:00 PM
Carbon disulfide	ND		778	µg/m3	500	6/27/2019 09:00 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	6/27/2019 09:00 PM
Chlorobenzene	ND		1,150	µg/m3	500	6/27/2019 09:00 PM
Chloroethane	ND		660	µg/m3	500	6/27/2019 09:00 PM
Chloroform	ND		488	µg/m3	500	6/27/2019 09:00 PM
Chloromethane	ND		516	µg/m3	500	6/27/2019 09:00 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 09:00 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 09:00 PM
Cumene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
Cyclohexane	**147,000**		**8,610**	**µg/m3**	5000	6/27/2019 08:16 PM
Dibromochloromethane	ND		2,130	µg/m3	500	6/27/2019 09:00 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	6/27/2019 09:00 PM
Ethyl acetate	ND		901	µg/m3	500	6/27/2019 09:00 PM
Ethylbenzene	ND		1,090	µg/m3	500	6/27/2019 09:00 PM
Freon 113	ND		1,920	µg/m3	500	6/27/2019 09:00 PM
Freon 114	ND		1,750	µg/m3	500	6/27/2019 09:00 PM
Heptane	**147,000**		**10,200**	**µg/m3**	5000	6/27/2019 08:16 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	6/27/2019 09:00 PM
Hexane	**262,000**		**8,810**	**µg/m3**	5000	6/27/2019 08:16 PM
m,p-Xylene	**3,580**		**1,090**	**µg/m3**	500	6/27/2019 09:00 PM
Methylene chloride	ND		3,500	µg/m3	500	6/27/2019 09:00 PM
MTBE	ND		901	µg/m3	500	6/27/2019 09:00 PM
Naphthalene	ND		524	µg/m3	500	6/27/2019 09:00 PM
o-Xylene	ND		1,090	µg/m3	500	6/27/2019 09:00 PM
Propene	ND		430	µg/m3	500	6/27/2019 09:00 PM
Styrene	ND		1,060	µg/m3	500	6/27/2019 09:00 PM
Tetrachloroethene	ND		1,700	µg/m3	500	6/27/2019 09:00 PM
Tetrahydrofuran	ND		737	µg/m3	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9
Sample ID: TWP West Baker Furnace
Collection Date: 6/14/2019

Work Order: 19061022
Lab ID: 19061022-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**5,390**		**942**	**µg/m3**	500	6/27/2019 09:00 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 09:00 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 09:00 PM
Trichloroethene	ND		537	µg/m3	500	6/27/2019 09:00 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	6/27/2019 09:00 PM
Vinyl acetate	ND		880	µg/m3	500	6/27/2019 09:00 PM
Vinyl chloride	ND		639	µg/m3	500	6/27/2019 09:00 PM
Surr: Bromofluorobenzene	*98.9*		*60-140*	*%REC*	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1-Dichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1-Dichloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dibromoethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dichloropropane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,3-Butadiene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,4-Dioxane	ND		500	ppbv	500	6/27/2019 10:30 PM
2-Butanone	ND		250	ppbv	500	6/27/2019 10:30 PM
2-Hexanone	ND		500	ppbv	500	6/27/2019 10:30 PM
2-Propanol	ND		500	ppbv	500	6/27/2019 10:30 PM
4-Ethyltoluene	ND		250	ppbv	500	6/27/2019 10:30 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	6/27/2019 10:30 PM
Acetone	ND		500	ppbv	500	6/27/2019 10:30 PM
Benzene	ND		250	ppbv	500	6/27/2019 10:30 PM
Benzyl chloride	ND		250	ppbv	500	6/27/2019 10:30 PM
Bromodichloromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Bromoform	ND		250	ppbv	500	6/27/2019 10:30 PM
Bromomethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Carbon disulfide	ND		250	ppbv	500	6/27/2019 10:30 PM
Carbon tetrachloride	ND		250	ppbv	500	6/27/2019 10:30 PM
Chlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
Chloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Chloroform	ND		100	ppbv	500	6/27/2019 10:30 PM
Chloromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 10:30 PM
Cumene	ND		250	ppbv	500	6/27/2019 10:30 PM
Cyclohexane	**8,100**		**250**	**ppbv**	500	6/27/2019 10:30 PM
Dibromochloromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Dichlorodifluoromethane	ND		250	ppbv	500	6/27/2019 10:30 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	6/27/2019 10:30 PM
Ethylbenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
Freon 113	ND		250	ppbv	500	6/27/2019 10:30 PM
Freon 114	ND		250	ppbv	500	6/27/2019 10:30 PM
Heptane	**5,400**		**250**	**ppbv**	500	6/27/2019 10:30 PM
Hexachlorobutadiene	ND		250	ppbv	500	6/27/2019 10:30 PM
Hexane	**16,000**		**2,500**	**ppbv**	5000	6/27/2019 09:46 PM
m,p-Xylene	ND		250	ppbv	500	6/27/2019 10:30 PM
Methylene chloride	ND		1,000	ppbv	500	6/27/2019 10:30 PM
MTBE	ND		250	ppbv	500	6/27/2019 10:30 PM
Naphthalene	ND		100	ppbv	500	6/27/2019 10:30 PM
o-Xylene	ND		250	ppbv	500	6/27/2019 10:30 PM
Propene	ND		250	ppbv	500	6/27/2019 10:30 PM
Styrene	ND		250	ppbv	500	6/27/2019 10:30 PM
Tetrachloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
Tetrahydrofuran	ND		250	ppbv	500	6/27/2019 10:30 PM
Toluene	ND		250	ppbv	500	6/27/2019 10:30 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 10:30 PM
Trichloroethene	ND		100	ppbv	500	6/27/2019 10:30 PM
Trichlorofluoromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Vinyl acetate	ND		250	ppbv	500	6/27/2019 10:30 PM
Vinyl chloride	ND		250	ppbv	500	6/27/2019 10:30 PM
Surr: Bromofluorobenzene	*98.4*		*60-140*	*%REC*	500	6/27/2019 10:30 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 10:30 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	6/27/2019 10:30 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 10:30 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 10:30 PM
1,1-Dichloroethene	ND		991	µg/m3	500	6/27/2019 10:30 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	6/27/2019 10:30 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	6/27/2019 10:30 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 10:30 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 10:30 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	6/27/2019 10:30 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
1,3-Butadiene	ND		553	µg/m3	500	6/27/2019 10:30 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 10:30 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 10:30 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	6/27/2019 10:30 PM
2-Butanone	ND		737	µg/m3	500	6/27/2019 10:30 PM
2-Hexanone	ND		2,050	µg/m3	500	6/27/2019 10:30 PM
2-Propanol	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	6/27/2019 10:30 PM
Acetone	ND		1,190	µg/m3	500	6/27/2019 10:30 PM
Benzene	ND		799	µg/m3	500	6/27/2019 10:30 PM
Benzyl chloride	ND		1,290	µg/m3	500	6/27/2019 10:30 PM
Bromodichloromethane	ND		1,680	µg/m3	500	6/27/2019 10:30 PM
Bromoform	ND		2,580	µg/m3	500	6/27/2019 10:30 PM
Bromomethane	ND		971	µg/m3	500	6/27/2019 10:30 PM
Carbon disulfide	ND		778	µg/m3	500	6/27/2019 10:30 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	6/27/2019 10:30 PM
Chlorobenzene	ND		1,150	µg/m3	500	6/27/2019 10:30 PM
Chloroethane	ND		660	µg/m3	500	6/27/2019 10:30 PM
Chloroform	ND		488	µg/m3	500	6/27/2019 10:30 PM
Chloromethane	ND		516	µg/m3	500	6/27/2019 10:30 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 10:30 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 10:30 PM
Cumene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
Cyclohexane	**27,800**		**861**	**µg/m3**	500	6/27/2019 10:30 PM
Dibromochloromethane	ND		2,130	µg/m3	500	6/27/2019 10:30 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	6/27/2019 10:30 PM
Ethyl acetate	ND		901	µg/m3	500	6/27/2019 10:30 PM
Ethylbenzene	ND		1,090	µg/m3	500	6/27/2019 10:30 PM
Freon 113	ND		1,920	µg/m3	500	6/27/2019 10:30 PM
Freon 114	ND		1,750	µg/m3	500	6/27/2019 10:30 PM
Heptane	**22,000**		**1,020**	**µg/m3**	500	6/27/2019 10:30 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	6/27/2019 10:30 PM
Hexane	**54,800**		**8,810**	**µg/m3**	5000	6/27/2019 09:46 PM
m,p-Xylene	ND		1,090	µg/m3	500	6/27/2019 10:30 PM
Methylene chloride	ND		3,500	µg/m3	500	6/27/2019 10:30 PM
MTBE	ND		901	µg/m3	500	6/27/2019 10:30 PM
Naphthalene	ND		524	µg/m3	500	6/27/2019 10:30 PM
o-Xylene	ND		1,090	µg/m3	500	6/27/2019 10:30 PM
Propene	ND		430	µg/m3	500	6/27/2019 10:30 PM
Styrene	ND		1,060	µg/m3	500	6/27/2019 10:30 PM
Tetrachloroethene	ND		1,700	µg/m3	500	6/27/2019 10:30 PM
Tetrahydrofuran	ND		737	µg/m3	500	6/27/2019 10:30 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	6/27/2019 10:30 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 10:30 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 10:30 PM
Trichloroethene	ND		537	µg/m3	500	6/27/2019 10:30 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	6/27/2019 10:30 PM
Vinyl acetate	ND		880	µg/m3	500	6/27/2019 10:30 PM
Vinyl chloride	ND		639	µg/m3	500	6/27/2019 10:30 PM
Surr: Bromofluorobenzene	*98.4*		*60-140*	*%REC*	500	6/27/2019 10:30 PM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC **

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 19061022-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	285817	PPBV
	TVOC**	1007314	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 19061022-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	74327	PPBV
	TVOC**	261954	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 10-Jul-19

Client: EarthCon

Work Order: 19061022

Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R167195** Units: **ppbv** Analysis Date: **6/27/2019 04:25 PM**

Client ID: Run ID: **VMS4_190627A** SeqNo: **2037070** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 19061022
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195**	Instrument ID **VMS4**		Method: **ETO-15**					
Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	9.73	0	*10*	0	*97.3*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 19061022
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **LCS-R167195** Units: **ppbv** Analysis Date: **6/27/2019 03:41 PM**
Client ID: Run ID: **VMS4_190627A** SeqNo: **2037069** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	11.05	0.50	10	0	110	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.89	0.50	10	0	109	60-140	0			
1,1,2-Trichloroethane	10.98	0.50	10	0	110	60-140	0			
1,1-Dichloroethane	11.32	0.50	10	0	113	60-140	0			
1,1-Dichloroethene	11.49	0.50	10	0	115	60-140	0			
1,2,4-Trichlorobenzene	7.95	0.50	10	0	79.5	49.3-150	0			
1,2,4-Trimethylbenzene	10.66	0.50	10	0	107	50.1-162	0			
1,2-Dibromoethane	10.88	0.50	10	0	109	60-140	0			
1,2-Dichlorobenzene	9.98	0.50	10	0	99.8	41.9-141	0			
1,2-Dichloroethane	11.73	0.50	10	0	117	60-140	0			
1,2-Dichloropropane	11.19	0.50	10	0	112	60-140	0			
1,3,5-Trimethylbenzene	10.62	0.50	10	0	106	60-140	0			
1,3-Butadiene	12.06	0.50	10	0	121	50.6-140	0			
1,3-Dichlorobenzene	10.29	0.50	10	0	103	60-140	0			
1,4-Dichlorobenzene	9.91	0.50	10	0	99.1	55.1-145	0			
1,4-Dioxane	9.65	1.0	10	0	96.5	60-140	0			
2-Butanone	11.75	0.50	10	0	118	60-140	0			
2-Hexanone	10.86	1.0	10	0	109	56.2-162	0			
2-Propanol	11.86	1.0	10	0	119	60-140	0			
4-Ethyltoluene	10.75	0.50	10	0	108	60-140	0			
4-Methyl-2-pentanone	11.78	1.0	10	0	118	60-140	0			
Acetone	10.71	1.0	10	0	107	60-140	0			
Benzene	11.14	0.50	10	0	111	60-140	0			
Benzyl chloride	10.22	0.50	10	0	102	31.9-174	0			
Bromodichloromethane	11.16	0.50	10	0	112	60-140	0			
Bromoform	10.57	0.50	10	0	106	60-140	0			
Bromomethane	11.56	0.50	10	0	116	60-140	0			
Carbon disulfide	10.57	0.50	10	0	106	60-140	0			
Carbon tetrachloride	10.96	0.50	10	0	110	60-140	0			
Chlorobenzene	10.45	0.50	10	0	104	60-140	0			
Chloroethane	13.53	0.50	10	0	135	60-140	0			
Chloroform	11.21	0.20	10	0	112	60-140	0			
Chloromethane	11.9	0.50	10	0	119	60-140	0			
cis-1,2-Dichloroethene	11.73	0.50	10	0	117	60-140	0			
cis-1,3-Dichloropropene	11.35	0.50	10	0	114	60-140	0			
Cumene	10.78	0.50	10	0	108	60-140	0			
Cyclohexane	11.11	0.50	10	0	111	60-140	0			
Dibromochloromethane	10.92	0.50	10	0	109	60-140	0			
Dichlorodifluoromethane	11.26	0.50	10	0	113	60-140	0			
Ethyl acetate	11.77	0.50	10	0	118	60-140	0			
Ethylbenzene	10.82	0.50	10	0	108	60-140	0			
Freon 113	10.88	0.50	10	0	109	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 19061022
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	11.32	0.50	10	0	113	60-140	0
Heptane	12.4	0.50	10	0	124	60-140	0
Hexachlorobutadiene	9.83	0.50	10	0	98.3	60-140	0
Hexane	11.49	0.50	10	0	115	60-140	0
m,p-Xylene	21.63	0.50	20	0	108	60-140	0
Methylene chloride	11.11	2.0	10	0	111	60-140	0
MTBE	11.46	0.50	10	0	115	60.8-151	0
Naphthalene	7.75	0.20	10	0	77.5	53.1-152	0
o-Xylene	10.82	0.50	10	0	108	60-140	0
Propene	9.82	0.50	10	0	98.2	34.4-139	0
Styrene	10.96	0.50	10	0	110	60-140	0
Tetrachloroethene	10.46	0.50	10	0	105	60-140	0
Tetrahydrofuran	11.98	0.50	10	0	120	60-140	0
Toluene	11.02	0.50	10	0	110	60-140	0
trans-1,2-Dichloroethene	10.69	0.50	10	0	107	60-140	0
trans-1,3-Dichloropropene	11.37	0.50	10	0	114	60-140	0
Trichloroethene	10.72	0.20	10	0	107	60-140	0
Trichlorofluoromethane	10.95	0.50	10	0	110	60-140	0
Vinyl acetate	12.46	0.50	10	0	125	48.4-145	0
Vinyl chloride	11.82	0.50	10	0	118	60-140	0
Surr: Bromofluorobenzene	10.2	0	*10*	0	*102*	*60-140*	0

The following samples were analyzed in this batch:

19061022-01A	19061022-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 10-Jul-19

Client: EarthCon
Project: TWP Roswell Station 9
WorkOrder: **19061022**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **18-Jun-19 10:18**

Work Order: **19061022** Received by: **SNH**

Checklist completed by Stephanie Harrington 18-Jun-19 Reviewed by: Shawn Smythe 19-Jun-19
eSignature Date eSignature Date

Matrices:
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

09-Oct-2019

Jordon French
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station #9 Work Order: **1909928**

Dear Jordon,

ALS Environmental received 2 samples on 19-Sep-2019 12:58 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 09-Oct-19

Client: EarthCon
Project: TWP Roswell Station #9
Work Order: **1909928**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1909928-01	TWP West Baker Furnace	Air		9/16/2019	9/19/2019 12:58	☐
1909928-02	TWP East Baker Furnace	Air		9/16/2019	9/19/2019 12:58	☐

ALS Environmental

Date: 09-Oct-19

Client: EarthCon
Project: TWP Roswell Station #9
Work Order: 1909928

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1-Dichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1-Dichloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dibromoethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dichloropropane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,3-Butadiene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,4-Dioxane	ND		500	ppbv	500	10/3/2019 03:47 PM
2-Butanone	ND		250	ppbv	500	10/3/2019 03:47 PM
2-Hexanone	ND		500	ppbv	500	10/3/2019 03:47 PM
2-Propanol	ND		500	ppbv	500	10/3/2019 03:47 PM
4-Ethyltoluene	ND		250	ppbv	500	10/3/2019 03:47 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	10/3/2019 03:47 PM
Acetone	ND		500	ppbv	500	10/3/2019 03:47 PM
Benzene	**1,400**		**250**	**ppbv**	500	10/3/2019 03:47 PM
Benzyl chloride	ND		250	ppbv	500	10/3/2019 03:47 PM
Bromodichloromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Bromoform	ND		250	ppbv	500	10/3/2019 03:47 PM
Bromomethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Carbon disulfide	ND		250	ppbv	500	10/3/2019 03:47 PM
Carbon tetrachloride	ND		250	ppbv	500	10/3/2019 03:47 PM
Chlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
Chloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Chloroform	ND		100	ppbv	500	10/3/2019 03:47 PM
Chloromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 03:47 PM
Cumene	ND		250	ppbv	500	10/3/2019 03:47 PM
Cyclohexane	**49,000**		**2,500**	**ppbv**	5000	10/3/2019 05:18 PM
Dibromochloromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Dichlorodifluoromethane	ND		250	ppbv	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	10/3/2019 03:47 PM
Ethylbenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
Freon 113	ND		250	ppbv	500	10/3/2019 03:47 PM
Freon 114	ND		250	ppbv	500	10/3/2019 03:47 PM
Heptane	**44,000**		**2,500**	**ppbv**	5000	10/3/2019 05:18 PM
Hexachlorobutadiene	ND		250	ppbv	500	10/3/2019 03:47 PM
Hexane	**68,000**		**2,500**	**ppbv**	5000	10/3/2019 05:18 PM
m,p-Xylene	**1,200**		**250**	**ppbv**	500	10/3/2019 03:47 PM
Methylene chloride	ND		1,000	ppbv	500	10/3/2019 03:47 PM
MTBE	ND		250	ppbv	500	10/3/2019 03:47 PM
Naphthalene	ND		100	ppbv	500	10/3/2019 03:47 PM
o-Xylene	ND		250	ppbv	500	10/3/2019 03:47 PM
Propene	ND		250	ppbv	500	10/3/2019 03:47 PM
Styrene	ND		250	ppbv	500	10/3/2019 03:47 PM
Tetrachloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
Tetrahydrofuran	ND		250	ppbv	500	10/3/2019 03:47 PM
Toluene	**2,000**		**250**	**ppbv**	500	10/3/2019 03:47 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 03:47 PM
Trichloroethene	ND		100	ppbv	500	10/3/2019 03:47 PM
Trichlorofluoromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Vinyl acetate	ND		250	ppbv	500	10/3/2019 03:47 PM
Vinyl chloride	ND		250	ppbv	500	10/3/2019 03:47 PM
Surr: Bromofluorobenzene	*93.6*		*60-140*	*%REC*	500	10/3/2019 03:47 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 03:47 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	10/3/2019 03:47 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 03:47 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 03:47 PM
1,1-Dichloroethene	ND		991	µg/m3	500	10/3/2019 03:47 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	10/3/2019 03:47 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	10/3/2019 03:47 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 03:47 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 03:47 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	10/3/2019 03:47 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
1,3-Butadiene	ND		553	µg/m3	500	10/3/2019 03:47 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 03:47 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	10/3/2019 03:47 PM
2-Butanone	ND		737	µg/m3	500	10/3/2019 03:47 PM
2-Hexanone	ND		2,050	µg/m3	500	10/3/2019 03:47 PM
2-Propanol	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	10/3/2019 03:47 PM
Acetone	ND		1,190	µg/m3	500	10/3/2019 03:47 PM
Benzene	**4,580**		**799**	**µg/m3**	500	10/3/2019 03:47 PM
Benzyl chloride	ND		1,290	µg/m3	500	10/3/2019 03:47 PM
Bromodichloromethane	ND		1,680	µg/m3	500	10/3/2019 03:47 PM
Bromoform	ND		2,580	µg/m3	500	10/3/2019 03:47 PM
Bromomethane	ND		971	µg/m3	500	10/3/2019 03:47 PM
Carbon disulfide	ND		778	µg/m3	500	10/3/2019 03:47 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	10/3/2019 03:47 PM
Chlorobenzene	ND		1,150	µg/m3	500	10/3/2019 03:47 PM
Chloroethane	ND		660	µg/m3	500	10/3/2019 03:47 PM
Chloroform	ND		488	µg/m3	500	10/3/2019 03:47 PM
Chloromethane	ND		516	µg/m3	500	10/3/2019 03:47 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 03:47 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 03:47 PM
Cumene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
Cyclohexane	**169,000**		**8,610**	**µg/m3**	5000	10/3/2019 05:18 PM
Dibromochloromethane	ND		2,130	µg/m3	500	10/3/2019 03:47 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	10/3/2019 03:47 PM
Ethyl acetate	ND		901	µg/m3	500	10/3/2019 03:47 PM
Ethylbenzene	ND		1,090	µg/m3	500	10/3/2019 03:47 PM
Freon 113	ND		1,920	µg/m3	500	10/3/2019 03:47 PM
Freon 114	ND		1,750	µg/m3	500	10/3/2019 03:47 PM
Heptane	**180,000**		**10,200**	**µg/m3**	5000	10/3/2019 05:18 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	10/3/2019 03:47 PM
Hexane	**239,000**		**8,810**	**µg/m3**	5000	10/3/2019 05:18 PM
m,p-Xylene	**5,230**		**1,090**	**µg/m3**	500	10/3/2019 03:47 PM
Methylene chloride	ND		3,500	µg/m3	500	10/3/2019 03:47 PM
MTBE	ND		901	µg/m3	500	10/3/2019 03:47 PM
Naphthalene	ND		524	µg/m3	500	10/3/2019 03:47 PM
o-Xylene	ND		1,090	µg/m3	500	10/3/2019 03:47 PM
Propene	ND		430	µg/m3	500	10/3/2019 03:47 PM
Styrene	ND		1,060	µg/m3	500	10/3/2019 03:47 PM
Tetrachloroethene	ND		1,700	µg/m3	500	10/3/2019 03:47 PM
Tetrahydrofuran	ND		737	µg/m3	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**7,460**		**942**	**µg/m3**	500	10/3/2019 03:47 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 03:47 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 03:47 PM
Trichloroethene	ND		537	µg/m3	500	10/3/2019 03:47 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	10/3/2019 03:47 PM
Vinyl acetate	ND		880	µg/m3	500	10/3/2019 03:47 PM
Vinyl chloride	ND		639	µg/m3	500	10/3/2019 03:47 PM
Surr: Bromofluorobenzene	*93.6*		*60-140*	*%REC*	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1-Dichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1-Dichloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dibromoethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dichloropropane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,3-Butadiene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,4-Dioxane	ND		500	ppbv	500	10/3/2019 04:32 PM
2-Butanone	ND		250	ppbv	500	10/3/2019 04:32 PM
2-Hexanone	ND		500	ppbv	500	10/3/2019 04:32 PM
2-Propanol	ND		500	ppbv	500	10/3/2019 04:32 PM
4-Ethyltoluene	ND		250	ppbv	500	10/3/2019 04:32 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	10/3/2019 04:32 PM
Acetone	ND		500	ppbv	500	10/3/2019 04:32 PM
Benzene	**580**		**250**	**ppbv**	500	10/3/2019 04:32 PM
Benzyl chloride	ND		250	ppbv	500	10/3/2019 04:32 PM
Bromodichloromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Bromoform	ND		250	ppbv	500	10/3/2019 04:32 PM
Bromomethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Carbon disulfide	ND		250	ppbv	500	10/3/2019 04:32 PM
Carbon tetrachloride	ND		250	ppbv	500	10/3/2019 04:32 PM
Chlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
Chloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Chloroform	ND		100	ppbv	500	10/3/2019 04:32 PM
Chloromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 04:32 PM
Cumene	ND		250	ppbv	500	10/3/2019 04:32 PM
Cyclohexane	**18,000**		**2,500**	**ppbv**	5000	10/3/2019 06:03 PM
Dibromochloromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Dichlorodifluoromethane	ND		250	ppbv	500	10/3/2019 04:32 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	10/3/2019 04:32 PM
Ethylbenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
Freon 113	ND		250	ppbv	500	10/3/2019 04:32 PM
Freon 114	ND		250	ppbv	500	10/3/2019 04:32 PM
Heptane	**13,000**		**2,500**	**ppbv**	5000	10/3/2019 06:03 PM
Hexachlorobutadiene	ND		250	ppbv	500	10/3/2019 04:32 PM
Hexane	**30,000**		**2,500**	**ppbv**	5000	10/3/2019 06:03 PM
m,p-Xylene	ND		250	ppbv	500	10/3/2019 04:32 PM
Methylene chloride	ND		1,000	ppbv	500	10/3/2019 04:32 PM
MTBE	ND		250	ppbv	500	10/3/2019 04:32 PM
Naphthalene	ND		100	ppbv	500	10/3/2019 04:32 PM
o-Xylene	ND		250	ppbv	500	10/3/2019 04:32 PM
Propene	ND		250	ppbv	500	10/3/2019 04:32 PM
Styrene	ND		250	ppbv	500	10/3/2019 04:32 PM
Tetrachloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
Tetrahydrofuran	ND		250	ppbv	500	10/3/2019 04:32 PM
Toluene	**590**		**250**	**ppbv**	500	10/3/2019 04:32 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 04:32 PM
Trichloroethene	ND		100	ppbv	500	10/3/2019 04:32 PM
Trichlorofluoromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Vinyl acetate	ND		250	ppbv	500	10/3/2019 04:32 PM
Vinyl chloride	ND		250	ppbv	500	10/3/2019 04:32 PM
Surr: Bromofluorobenzene	*93.7*		*60-140*	*%REC*	500	10/3/2019 04:32 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 04:32 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	10/3/2019 04:32 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 04:32 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 04:32 PM
1,1-Dichloroethene	ND		991	µg/m3	500	10/3/2019 04:32 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	10/3/2019 04:32 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	10/3/2019 04:32 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 04:32 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 04:32 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	10/3/2019 04:32 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
1,3-Butadiene	ND		553	µg/m3	500	10/3/2019 04:32 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 04:32 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 04:32 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	10/3/2019 04:32 PM
2-Butanone	ND		737	µg/m3	500	10/3/2019 04:32 PM
2-Hexanone	ND		2,050	µg/m3	500	10/3/2019 04:32 PM
2-Propanol	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	10/3/2019 04:32 PM
Acetone	ND		1,190	µg/m3	500	10/3/2019 04:32 PM
Benzene	**1,850**		**799**	**µg/m3**	500	10/3/2019 04:32 PM
Benzyl chloride	ND		1,290	µg/m3	500	10/3/2019 04:32 PM
Bromodichloromethane	ND		1,680	µg/m3	500	10/3/2019 04:32 PM
Bromoform	ND		2,580	µg/m3	500	10/3/2019 04:32 PM
Bromomethane	ND		971	µg/m3	500	10/3/2019 04:32 PM
Carbon disulfide	ND		778	µg/m3	500	10/3/2019 04:32 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	10/3/2019 04:32 PM
Chlorobenzene	ND		1,150	µg/m3	500	10/3/2019 04:32 PM
Chloroethane	ND		660	µg/m3	500	10/3/2019 04:32 PM
Chloroform	ND		488	µg/m3	500	10/3/2019 04:32 PM
Chloromethane	ND		516	µg/m3	500	10/3/2019 04:32 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 04:32 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 04:32 PM
Cumene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
Cyclohexane	**60,400**		**8,610**	**µg/m3**	5000	10/3/2019 06:03 PM
Dibromochloromethane	ND		2,130	µg/m3	500	10/3/2019 04:32 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	10/3/2019 04:32 PM
Ethyl acetate	ND		901	µg/m3	500	10/3/2019 04:32 PM
Ethylbenzene	ND		1,090	µg/m3	500	10/3/2019 04:32 PM
Freon 113	ND		1,920	µg/m3	500	10/3/2019 04:32 PM
Freon 114	ND		1,750	µg/m3	500	10/3/2019 04:32 PM
Heptane	**54,500**		**10,200**	**µg/m3**	5000	10/3/2019 06:03 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	10/3/2019 04:32 PM
Hexane	**106,000**		**8,810**	**µg/m3**	5000	10/3/2019 06:03 PM
m,p-Xylene	ND		1,090	µg/m3	500	10/3/2019 04:32 PM
Methylene chloride	ND		3,500	µg/m3	500	10/3/2019 04:32 PM
MTBE	ND		901	µg/m3	500	10/3/2019 04:32 PM
Naphthalene	ND		524	µg/m3	500	10/3/2019 04:32 PM
o-Xylene	ND		1,090	µg/m3	500	10/3/2019 04:32 PM
Propene	ND		430	µg/m3	500	10/3/2019 04:32 PM
Styrene	ND		1,060	µg/m3	500	10/3/2019 04:32 PM
Tetrachloroethene	ND		1,700	µg/m3	500	10/3/2019 04:32 PM
Tetrahydrofuran	ND		737	µg/m3	500	10/3/2019 04:32 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**2,220**		**942**	**µg/m3**	500	10/3/2019 04:32 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 04:32 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 04:32 PM
Trichloroethene	ND		537	µg/m3	500	10/3/2019 04:32 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	10/3/2019 04:32 PM
Vinyl acetate	ND		880	µg/m3	500	10/3/2019 04:32 PM
Vinyl chloride	ND		639	µg/m3	500	10/3/2019 04:32 PM
Surr: Bromofluorobenzene	*93.7*		*60-140*	*%REC*	500	10/3/2019 04:32 PM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC **

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 190928-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	313026	PPBV
	TVOC**	1103209	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 1909928-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	135949	PPBV
	TVOC**	479132	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 09-Oct-19

Client: EarthCon

Work Order: 1909928

Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R170765** Units: **ppbv** Analysis Date: **10/3/2019 11:16 AM**

Client ID: Run ID: **VMS4_191003A** SeqNo: **2111320** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1909928
Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	8.99	0	*10*	0	*89.9*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1909928
Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **LCS-R170765** Units: **ppbv** Analysis Date: **10/3/2019 10:32 AM**
Client ID: Run ID: **VMS4_191003A** SeqNo: **2111319** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.74	0.50	10	0	97.4	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.1	0.50	10	0	101	60-140	0			
1,1,2-Trichloroethane	9.88	0.50	10	0	98.8	60-140	0			
1,1-Dichloroethane	9.62	0.50	10	0	96.2	60-140	0			
1,1-Dichloroethene	9.67	0.50	10	0	96.7	60-140	0			
1,2,4-Trichlorobenzene	10.41	0.50	10	0	104	49.3-150	0			
1,2,4-Trimethylbenzene	10.71	0.50	10	0	107	50.1-162	0			
1,2-Dibromoethane	10.13	0.50	10	0	101	60-140	0			
1,2-Dichlorobenzene	10.76	0.50	10	0	108	41.9-141	0			
1,2-Dichloroethane	9.57	0.50	10	0	95.7	60-140	0			
1,2-Dichloropropane	9.61	0.50	10	0	96.1	60-140	0			
1,3,5-Trimethylbenzene	10.41	0.50	10	0	104	60-140	0			
1,3-Butadiene	9.35	0.50	10	0	93.5	50.6-140	0			
1,3-Dichlorobenzene	10.73	0.50	10	0	107	60-140	0			
1,4-Dichlorobenzene	10.68	0.50	10	0	107	55.1-145	0			
1,4-Dioxane	10.19	1.0	10	0	102	60-140	0			
2-Butanone	10.01	0.50	10	0	100	60-140	0			
2-Hexanone	10.74	1.0	10	0	107	56.2-162	0			
2-Propanol	10.12	1.0	10	0	101	60-140	0			
4-Ethyltoluene	10.78	0.50	10	0	108	60-140	0			
4-Methyl-2-pentanone	10.36	1.0	10	0	104	60-140	0			
Acetone	9.91	1.0	10	0	99.1	60-140	0			
Benzene	9.49	0.50	10	0	94.9	60-140	0			
Benzyl chloride	10.57	0.50	10	0	106	31.9-174	0			
Bromodichloromethane	9.83	0.50	10	0	98.3	60-140	0			
Bromoform	10.32	0.50	10	0	103	60-140	0			
Bromomethane	9.67	0.50	10	0	96.7	60-140	0			
Carbon disulfide	9.6	0.50	10	0	96	60-140	0			
Carbon tetrachloride	9.75	0.50	10	0	97.5	60-140	0			
Chlorobenzene	9.56	0.50	10	0	95.6	60-140	0			
Chloroethane	10.61	0.50	10	0	106	60-140	0			
Chloroform	9.58	0.20	10	0	95.8	60-140	0			
Chloromethane	9.43	0.50	10	0	94.3	60-140	0			
cis-1,2-Dichloroethene	9.73	0.50	10	0	97.3	60-140	0			
cis-1,3-Dichloropropene	9.89	0.50	10	0	98.9	60-140	0			
Cumene	10.31	0.50	10	0	103	60-140	0			
Cyclohexane	9.63	0.50	10	0	96.3	60-140	0			
Dibromochloromethane	10.28	0.50	10	0	103	60-140	0			
Dichlorodifluoromethane	9.85	0.50	10	0	98.5	60-140	0			
Ethyl acetate	9.8	0.50	10	0	98	60-140	0			
Ethylbenzene	9.85	0.50	10	0	98.5	60-140	0			
Freon 113	9.82	0.50	10	0	98.2	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1909928
Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	9.94	0.50	10	0	99.4	60-140	0
Heptane	9.8	0.50	10	0	98	60-140	0
Hexachlorobutadiene	10.43	0.50	10	0	104	60-140	0
Hexane	8.51	0.50	10	0	85.1	60-140	0
m,p-Xylene	19.88	0.50	20	0	99.4	60-140	0
Methylene chloride	9.52	2.0	10	0	95.2	60-140	0
MTBE	10.08	0.50	10	0	101	60.8-151	0
Naphthalene	10.84	0.20	10	0	108	53.1-152	0
o-Xylene	10.12	0.50	10	0	101	60-140	0
Propene	9.22	0.50	10	0	92.2	34.4-139	0
Styrene	10.37	0.50	10	0	104	60-140	0
Tetrachloroethene	9.83	0.50	10	0	98.3	60-140	0
Tetrahydrofuran	11.04	0.50	10	0	110	60-140	0
Toluene	9.81	0.50	10	0	98.1	60-140	0
trans-1,2-Dichloroethene	9.32	0.50	10	0	93.2	60-140	0
trans-1,3-Dichloropropene	10.19	0.50	10	0	102	60-140	0
Trichloroethene	9.62	0.20	10	0	96.2	60-140	0
Trichlorofluoromethane	9.56	0.50	10	0	95.6	60-140	0
Vinyl acetate	9.97	0.50	10	0	99.7	48.4-145	0
Vinyl chloride	9.52	0.50	10	0	95.2	60-140	0
Surr: Bromofluorobenzene	9.7	0	*10*	0	*97*	*60-140*	0

The following samples were analyzed in this batch: 1909928-01A 1909928-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 09-Oct-19

Client: EarthCon
Project: TWP Roswell Station #9
WorkOrder: **1909928**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **19-Sep-19 12:58**

Work Order: **1909928** Received by: **JNW**

Checklist completed by Joe Ribar 20-Sep-19 Reviewed by: Shawn Smythe 23-Sep-19
eSignature Date eSignature Date

Matrices: Air
Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

29-Jan-2020

Steve Diamond
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station 9 Work Order: **2001557**

Dear Steve,

ALS Environmental received 2 samples on 16-Jan-2020 01:15 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 29-Jan-20

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: **2001557**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
2001557-01	TWP West Baker Furnace	Air		1/13/2020	1/16/2020 13:15	☐
2001557-02	TWP East Baker Furnace	Air		1/13/2020	1/16/2020 13:15	☐

ALS Environmental

Date: 29-Jan-20

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: 2001557

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1-Dichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1-Dichloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dibromoethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dichloropropane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,3-Butadiene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,4-Dioxane	ND		500	ppbv	500	1/23/2020 09:10 PM
2-Butanone	ND		250	ppbv	500	1/23/2020 09:10 PM
2-Hexanone	ND		500	ppbv	500	1/23/2020 09:10 PM
2-Propanol	ND		500	ppbv	500	1/23/2020 09:10 PM
4-Ethyltoluene	ND		250	ppbv	500	1/23/2020 09:10 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	1/23/2020 09:10 PM
Acetone	ND		500	ppbv	500	1/23/2020 09:10 PM
Benzene	**780**		**250**	**ppbv**	500	1/23/2020 09:10 PM
Benzyl chloride	ND		250	ppbv	500	1/23/2020 09:10 PM
Bromodichloromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Bromoform	ND		250	ppbv	500	1/23/2020 09:10 PM
Bromomethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Carbon disulfide	ND		250	ppbv	500	1/23/2020 09:10 PM
Carbon tetrachloride	ND		250	ppbv	500	1/23/2020 09:10 PM
Chlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
Chloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Chloroform	ND		100	ppbv	500	1/23/2020 09:10 PM
Chloromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 09:10 PM
Cumene	ND		250	ppbv	500	1/23/2020 09:10 PM
Cyclohexane	**24,000**		**2,500**	**ppbv**	5000	1/23/2020 08:26 PM
Dibromochloromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Dichlorodifluoromethane	ND		250	ppbv	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	1/23/2020 09:10 PM
Ethylbenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
Freon 113	ND		250	ppbv	500	1/23/2020 09:10 PM
Freon 114	ND		250	ppbv	500	1/23/2020 09:10 PM
Heptane	**18,000**		**2,500**	**ppbv**	5000	1/23/2020 08:26 PM
Hexachlorobutadiene	ND		250	ppbv	500	1/23/2020 09:10 PM
Hexane	**41,000**		**2,500**	**ppbv**	5000	1/23/2020 08:26 PM
m,p-Xylene	**360**		**250**	**ppbv**	500	1/23/2020 09:10 PM
Methylene chloride	ND		1,000	ppbv	500	1/23/2020 09:10 PM
MTBE	ND		250	ppbv	500	1/23/2020 09:10 PM
Naphthalene	ND		100	ppbv	500	1/23/2020 09:10 PM
o-Xylene	ND		250	ppbv	500	1/23/2020 09:10 PM
Propene	ND		250	ppbv	500	1/23/2020 09:10 PM
Styrene	ND		250	ppbv	500	1/23/2020 09:10 PM
Tetrachloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
Tetrahydrofuran	ND		250	ppbv	500	1/23/2020 09:10 PM
Toluene	**800**		**250**	**ppbv**	500	1/23/2020 09:10 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 09:10 PM
Trichloroethene	ND		100	ppbv	500	1/23/2020 09:10 PM
Trichlorofluoromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Vinyl acetate	ND		250	ppbv	500	1/23/2020 09:10 PM
Vinyl chloride	ND		250	ppbv	500	1/23/2020 09:10 PM
Surr: Bromofluorobenzene	*96.4*		*60-140*	*%REC*	500	1/23/2020 09:10 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 09:10 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	1/23/2020 09:10 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 09:10 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 09:10 PM
1,1-Dichloroethene	ND		991	µg/m3	500	1/23/2020 09:10 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	1/23/2020 09:10 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	1/23/2020 09:10 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 09:10 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 09:10 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	1/23/2020 09:10 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
1,3-Butadiene	ND		553	µg/m3	500	1/23/2020 09:10 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 09:10 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	1/23/2020 09:10 PM
2-Butanone	ND		737	µg/m3	500	1/23/2020 09:10 PM
2-Hexanone	ND		2,050	µg/m3	500	1/23/2020 09:10 PM
2-Propanol	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	1/23/2020 09:10 PM
Acetone	ND		1,190	µg/m3	500	1/23/2020 09:10 PM
Benzene	**2,480**		**799**	**µg/m3**	500	1/23/2020 09:10 PM
Benzyl chloride	ND		1,290	µg/m3	500	1/23/2020 09:10 PM
Bromodichloromethane	ND		1,680	µg/m3	500	1/23/2020 09:10 PM
Bromoform	ND		2,580	µg/m3	500	1/23/2020 09:10 PM
Bromomethane	ND		971	µg/m3	500	1/23/2020 09:10 PM
Carbon disulfide	ND		778	µg/m3	500	1/23/2020 09:10 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	1/23/2020 09:10 PM
Chlorobenzene	ND		1,150	µg/m3	500	1/23/2020 09:10 PM
Chloroethane	ND		660	µg/m3	500	1/23/2020 09:10 PM
Chloroform	ND		488	µg/m3	500	1/23/2020 09:10 PM
Chloromethane	ND		516	µg/m3	500	1/23/2020 09:10 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 09:10 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 09:10 PM
Cumene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
Cyclohexane	**83,100**		**8,610**	**µg/m3**	5000	1/23/2020 08:26 PM
Dibromochloromethane	ND		2,130	µg/m3	500	1/23/2020 09:10 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	1/23/2020 09:10 PM
Ethyl acetate	ND		901	µg/m3	500	1/23/2020 09:10 PM
Ethylbenzene	ND		1,090	µg/m3	500	1/23/2020 09:10 PM
Freon 113	ND		1,920	µg/m3	500	1/23/2020 09:10 PM
Freon 114	ND		1,750	µg/m3	500	1/23/2020 09:10 PM
Heptane	**72,300**		**10,200**	**µg/m3**	5000	1/23/2020 08:26 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	1/23/2020 09:10 PM
Hexane	**144,000**		**8,810**	**µg/m3**	5000	1/23/2020 08:26 PM
m,p-Xylene	**1,580**		**1,090**	**µg/m3**	500	1/23/2020 09:10 PM
Methylene chloride	ND		3,500	µg/m3	500	1/23/2020 09:10 PM
MTBE	ND		901	µg/m3	500	1/23/2020 09:10 PM
Naphthalene	ND		524	µg/m3	500	1/23/2020 09:10 PM
o-Xylene	ND		1,090	µg/m3	500	1/23/2020 09:10 PM
Propene	ND		430	µg/m3	500	1/23/2020 09:10 PM
Styrene	ND		1,060	µg/m3	500	1/23/2020 09:10 PM
Tetrachloroethene	ND		1,700	µg/m3	500	1/23/2020 09:10 PM
Tetrahydrofuran	ND		737	µg/m3	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**3,000**		**942**	**µg/m3**	500	1/23/2020 09:10 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 09:10 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 09:10 PM
Trichloroethene	ND		537	µg/m3	500	1/23/2020 09:10 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	1/23/2020 09:10 PM
Vinyl acetate	ND		880	µg/m3	500	1/23/2020 09:10 PM
Vinyl chloride	ND		639	µg/m3	500	1/23/2020 09:10 PM
Surr: Bromofluorobenzene	*96.4*		*60-140*	*%REC*	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1-Dichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1-Dichloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dibromoethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dichloropropane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,3-Butadiene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,4-Dioxane	ND		500	ppbv	500	1/23/2020 10:40 PM
2-Butanone	ND		250	ppbv	500	1/23/2020 10:40 PM
2-Hexanone	ND		500	ppbv	500	1/23/2020 10:40 PM
2-Propanol	ND		500	ppbv	500	1/23/2020 10:40 PM
4-Ethyltoluene	ND		250	ppbv	500	1/23/2020 10:40 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	1/23/2020 10:40 PM
Acetone	ND		500	ppbv	500	1/23/2020 10:40 PM
Benzene	ND		250	ppbv	500	1/23/2020 10:40 PM
Benzyl chloride	ND		250	ppbv	500	1/23/2020 10:40 PM
Bromodichloromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Bromoform	ND		250	ppbv	500	1/23/2020 10:40 PM
Bromomethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Carbon disulfide	ND		250	ppbv	500	1/23/2020 10:40 PM
Carbon tetrachloride	ND		250	ppbv	500	1/23/2020 10:40 PM
Chlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
Chloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Chloroform	ND		100	ppbv	500	1/23/2020 10:40 PM
Chloromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 10:40 PM
Cumene	ND		250	ppbv	500	1/23/2020 10:40 PM
Cyclohexane	**11,000**		**250**	**ppbv**	500	1/23/2020 10:40 PM
Dibromochloromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Dichlorodifluoromethane	ND		250	ppbv	500	1/23/2020 10:40 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	1/23/2020 10:40 PM
Ethylbenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
Freon 113	ND		250	ppbv	500	1/23/2020 10:40 PM
Freon 114	ND		250	ppbv	500	1/23/2020 10:40 PM
Heptane	**7,300**		**250**	**ppbv**	500	1/23/2020 10:40 PM
Hexachlorobutadiene	ND		250	ppbv	500	1/23/2020 10:40 PM
Hexane	**18,000**		**2,500**	**ppbv**	5000	1/23/2020 09:56 PM
m,p-Xylene	ND		250	ppbv	500	1/23/2020 10:40 PM
Methylene chloride	ND		1,000	ppbv	500	1/23/2020 10:40 PM
MTBE	ND		250	ppbv	500	1/23/2020 10:40 PM
Naphthalene	ND		100	ppbv	500	1/23/2020 10:40 PM
o-Xylene	ND		250	ppbv	500	1/23/2020 10:40 PM
Propene	ND		250	ppbv	500	1/23/2020 10:40 PM
Styrene	ND		250	ppbv	500	1/23/2020 10:40 PM
Tetrachloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
Tetrahydrofuran	ND		250	ppbv	500	1/23/2020 10:40 PM
Toluene	ND		250	ppbv	500	1/23/2020 10:40 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 10:40 PM
Trichloroethene	ND		100	ppbv	500	1/23/2020 10:40 PM
Trichlorofluoromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Vinyl acetate	ND		250	ppbv	500	1/23/2020 10:40 PM
Vinyl chloride	ND		250	ppbv	500	1/23/2020 10:40 PM
Surr: Bromofluorobenzene	*95.1*		*60-140*	*%REC*	500	1/23/2020 10:40 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 10:40 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	1/23/2020 10:40 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 10:40 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 10:40 PM
1,1-Dichloroethene	ND		991	µg/m3	500	1/23/2020 10:40 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	1/23/2020 10:40 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	1/23/2020 10:40 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 10:40 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 10:40 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	1/23/2020 10:40 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
1,3-Butadiene	ND		553	µg/m3	500	1/23/2020 10:40 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 10:40 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 10:40 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	1/23/2020 10:40 PM
2-Butanone	ND		737	µg/m3	500	1/23/2020 10:40 PM
2-Hexanone	ND		2,050	µg/m3	500	1/23/2020 10:40 PM
2-Propanol	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	1/23/2020 10:40 PM
Acetone	ND		1,190	µg/m3	500	1/23/2020 10:40 PM
Benzene	ND		799	µg/m3	500	1/23/2020 10:40 PM
Benzyl chloride	ND		1,290	µg/m3	500	1/23/2020 10:40 PM
Bromodichloromethane	ND		1,680	µg/m3	500	1/23/2020 10:40 PM
Bromoform	ND		2,580	µg/m3	500	1/23/2020 10:40 PM
Bromomethane	ND		971	µg/m3	500	1/23/2020 10:40 PM
Carbon disulfide	ND		778	µg/m3	500	1/23/2020 10:40 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	1/23/2020 10:40 PM
Chlorobenzene	ND		1,150	µg/m3	500	1/23/2020 10:40 PM
Chloroethane	ND		660	µg/m3	500	1/23/2020 10:40 PM
Chloroform	ND		488	µg/m3	500	1/23/2020 10:40 PM
Chloromethane	ND		516	µg/m3	500	1/23/2020 10:40 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 10:40 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 10:40 PM
Cumene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
Cyclohexane	**38,000**		**861**	**µg/m3**	500	1/23/2020 10:40 PM
Dibromochloromethane	ND		2,130	µg/m3	500	1/23/2020 10:40 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	1/23/2020 10:40 PM
Ethyl acetate	ND		901	µg/m3	500	1/23/2020 10:40 PM
Ethylbenzene	ND		1,090	µg/m3	500	1/23/2020 10:40 PM
Freon 113	ND		1,920	µg/m3	500	1/23/2020 10:40 PM
Freon 114	ND		1,750	µg/m3	500	1/23/2020 10:40 PM
Heptane	**30,000**		**1,020**	**µg/m3**	500	1/23/2020 10:40 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	1/23/2020 10:40 PM
Hexane	**61,700**		**8,810**	**µg/m3**	5000	1/23/2020 09:56 PM
m,p-Xylene	ND		1,090	µg/m3	500	1/23/2020 10:40 PM
Methylene chloride	ND		3,500	µg/m3	500	1/23/2020 10:40 PM
MTBE	ND		901	µg/m3	500	1/23/2020 10:40 PM
Naphthalene	ND		524	µg/m3	500	1/23/2020 10:40 PM
o-Xylene	ND		1,090	µg/m3	500	1/23/2020 10:40 PM
Propene	ND		430	µg/m3	500	1/23/2020 10:40 PM
Styrene	ND		1,060	µg/m3	500	1/23/2020 10:40 PM
Tetrachloroethene	ND		1,700	µg/m3	500	1/23/2020 10:40 PM
Tetrahydrofuran	ND		737	µg/m3	500	1/23/2020 10:40 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	1/23/2020 10:40 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 10:40 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 10:40 PM
Trichloroethene	ND		537	µg/m3	500	1/23/2020 10:40 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	1/23/2020 10:40 PM
Vinyl acetate	ND		880	µg/m3	500	1/23/2020 10:40 PM
Vinyl chloride	ND		639	µg/m3	500	1/23/2020 10:40 PM
Surr: Bromofluorobenzene	*95.1*		*60-140*	*%REC*	500	1/23/2020 10:40 PM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC ****

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 2001557-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	221326	PPBV
	TVOC**	780027	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 2001557-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	111613	PPBV
	TVOC**	393362	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 29-Jan-20

Client: EarthCon

Work Order: 2001557

Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R174263** Units: **ppbv** Analysis Date: **1/23/2020 01:44 PM**

Client ID: Run ID: **VMS4_200123A** SeqNo: **2177508** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 2001557
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263**	Instrument ID **VMS4**		Method: **ETO-15**					
Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	9.08	0	*10*	0	*90.8*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 2001557
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **LCS-R174263** Units: **ppbv** Analysis Date: **1/23/2020 12:15 PM**
Client ID: Run ID: **VMS4_200123A** SeqNo: **2177506** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.64	0.50	10	0	96.4	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.39	0.50	10	0	104	60-140	0			
1,1,2-Trichloroethane	10.26	0.50	10	0	103	60-140	0			
1,1-Dichloroethane	9.43	0.50	10	0	94.3	60-140	0			
1,1-Dichloroethene	9.85	0.50	10	0	98.5	60-140	0			
1,2,4-Trichlorobenzene	7.94	0.50	10	0	79.4	49.3-150	0			
1,2,4-Trimethylbenzene	10.45	0.50	10	0	104	50.1-162	0			
1,2-Dibromoethane	10.65	0.50	10	0	106	60-140	0			
1,2-Dichlorobenzene	10.14	0.50	10	0	101	41.9-141	0			
1,2-Dichloroethane	9.52	0.50	10	0	95.2	60-140	0			
1,2-Dichloropropane	9.84	0.50	10	0	98.4	60-140	0			
1,3,5-Trimethylbenzene	10.22	0.50	10	0	102	60-140	0			
1,3-Butadiene	14.31	0.50	10	0	143	50.6-140	0			S
1,3-Dichlorobenzene	10.48	0.50	10	0	105	60-140	0			
1,4-Dichlorobenzene	10.25	0.50	10	0	102	55.1-145	0			
1,4-Dioxane	8.39	1.0	10	0	83.9	60-140	0			
2-Butanone	9.84	0.50	10	0	98.4	60-140	0			
2-Hexanone	8.6	1.0	10	0	86	56.2-162	0			
2-Propanol	8.15	1.0	10	0	81.5	60-140	0			
4-Ethyltoluene	10.83	0.50	10	0	108	60-140	0			
4-Methyl-2-pentanone	9.97	1.0	10	0	99.7	60-140	0			
Acetone	8.24	1.0	10	0	82.4	60-140	0			
Benzene	9.6	0.50	10	0	96	60-140	0			
Benzyl chloride	10.08	0.50	10	0	101	31.9-174	0			
Bromodichloromethane	10.12	0.50	10	0	101	60-140	0			
Bromoform	10.52	0.50	10	0	105	60-140	0			
Bromomethane	13.32	0.50	10	0	133	60-140	0			
Carbon disulfide	9.68	0.50	10	0	96.8	60-140	0			
Carbon tetrachloride	9.96	0.50	10	0	99.6	60-140	0			
Chlorobenzene	10.16	0.50	10	0	102	60-140	0			
Chloroethane	10.01	0.50	10	0	100	60-140	0			
Chloroform	9.71	0.20	10	0	97.1	60-140	0			
Chloromethane	10.72	0.50	10	0	107	60-140	0			
cis-1,2-Dichloroethene	9.95	0.50	10	0	99.5	60-140	0			
cis-1,3-Dichloropropene	9.7	0.50	10	0	97	60-140	0			
Cumene	10.5	0.50	10	0	105	60-140	0			
Cyclohexane	9.65	0.50	10	0	96.5	60-140	0			
Dibromochloromethane	10.81	0.50	10	0	108	60-140	0			
Dichlorodifluoromethane	11.3	0.50	10	0	113	60-140	0			
Ethyl acetate	9.79	0.50	10	0	97.9	60-140	0			
Ethylbenzene	10.09	0.50	10	0	101	60-140	0			
Freon 113	10.24	0.50	10	0	102	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 2001557
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	11.12	0.50	10	0	111	60-140	0
Heptane	9.52	0.50	10	0	95.2	60-140	0
Hexachlorobutadiene	8.72	0.50	10	0	87.2	60-140	0
Hexane	9.45	0.50	10	0	94.5	60-140	0
m,p-Xylene	20.91	0.50	20	0	105	60-140	0
Methylene chloride	9.66	2.0	10	0	96.6	60-140	0
MTBE	9.24	0.50	10	0	92.4	60.8-151	0
Naphthalene	8.11	0.20	10	0	81.1	53.1-152	0
o-Xylene	10.25	0.50	10	0	102	60-140	0
Propene	10.67	0.50	10	0	107	34.4-139	0
Styrene	10.81	0.50	10	0	108	60-140	0
Tetrachloroethene	9.59	0.50	10	0	95.9	60-140	0
Tetrahydrofuran	9.53	0.50	10	0	95.3	60-140	0
Toluene	10.13	0.50	10	0	101	60-140	0
trans-1,2-Dichloroethene	9.89	0.50	10	0	98.9	60-140	0
trans-1,3-Dichloropropene	9.64	0.50	10	0	96.4	60-140	0
Trichloroethene	10	0.20	10	0	100	60-140	0
Trichlorofluoromethane	10.23	0.50	10	0	102	60-140	0
Vinyl acetate	8.29	0.50	10	0	82.9	48.4-145	0
Vinyl chloride	13.25	0.50	10	0	132	60-140	0
Surr: Bromofluorobenzene	9.93	0	*10*	0	*99.3*	*60-140*	0

The following samples were analyzed in this batch: 2001557-01A 2001557-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 29-Jan-20

Client: EarthCon
Project: TWP Roswell Station 9
WorkOrder: **2001557**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **16-Jan-20 13:15**

Work Order: **2001557** Received by: **SNH**

Checklist completed by Jan Wilcox 16-Jan-20 Reviewed by: Shawn Smythe 17-Jan-20
eSignature Date eSignature Date

Matrices:
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix D

Historical SVE System Table for Gasoline Range Organics

APPENDIX D: Historical Summary of Vapor Sample Analyses for the SVE System (Gasoline Range VOCs) Transwestern Compressor Station No. 9 - Roswell, NM

Sample ID	Date	Gasoline Range VOCs		Estimated Process Flow	Potential Emissions	< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ug/L)	(ppbv) [a]	(scfm)	(lb/hr)	(%)									
West Baker Furnace	10/06/09	1,770	539	142	0.9	--	10.5	46.2	38.1	4.0	1.2	0.0	0.0	0.0	0.0
West Baker Furnace	08/10/11	3,200	974	147	1.8	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	07/03/12	3,700	1,126	162	2.2	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	10/05/12	1,400	426	162	0.8	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	10/22/12	1,670	508	162	1.0	--	17.1	44.2	28.6	4.2	5.0	0.5	0.2	0.1	0.1
West Baker Furnace	01/29/13	1,130	344	160	0.7	--	20.3	44.9	25.9	3.9	4.6	0.3	0.0	0.1	0.0
West Baker Furnace	02/27/13	1,120	341	160	0.7	--	14.2	40.2	30.2	6.1	8.3	0.6	0.4	0.0	0.0
West Baker Furnace	03/29/13	694	211	160	0.4	--	14.8	42.0	29.5	8.1	5.1	0.2	0.1	0.2	0.0
West Baker Furnace	04/30/13	850	259	160	0.5	--	31.1	32.1	23.6	8.0	4.3	0.7	0.1	0.1	0.0
West Baker Furnace	05/16/13	5,610	1,707	160	3.4	--	33.5	31.4	26.8	5.8	2.0	0.4	0.1	0.0	0.0
West Baker Furnace	06/17/13	4,600	1,400	160	2.8	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	07/17/13	4,680	1,424	160	2.8	--	28.6	30.3	30.3	6.9	3.5	0.3	0.1	0.0	0.0
West Baker Furnace	08/27/13	3,040	925	160	1.8	--	25.7	28.7	31.0	8.3	5.0	0.9	0.3	0.1	0.0
West Baker Furnace	09/25/13	2,280	694	160	1.4	--	25.4	29.5	24.8	10.0	7.5	1.9	0.8	0.1	0.0
West Baker Furnace	10/17/13	1,900	578	160	1.1	--	28.0	38.7	21.3	7.4	3.6	0.5	0.4	0.1	0.0
West Baker Furnace	11/22/13	2,100	639	160	1.3	--	31.9	35.5	23.4	5.9	3.0	0.1	0.1	0.1	0.0
West Baker Furnace	12/17/13	1,980	603	160	1.2	--	28.6	37.8	21.0	7.3	4.1	0.7	0.3	0.2	0.0
East Baker Furnace	10/06/09	2,010	612	216	1.6	--	15.4	49.3	31.4	2.9	1.0	0.0	0.0	0.0	0.0
East Baker Furnace	08/10/11	2,200	669	147	1.2	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	07/03/12	2,100	639	159	1.3	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	10/05/12	1,200	365	159	0.7	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	10/22/12	1,780	542	160	1.1	--	15.3	41.0	29.6	5.8	7.1	0.9	0.1	0.1	0.1
East Baker Furnace	01/29/13	928	282	160	0.6	--	16.4	46.9	24.9	6.2	5.4	0.2	0.0	0.0	0.0
East Baker Furnace	02/27/13	860	262	160	0.5	--	15.2	43.2	30.0	6.2	5.2	0.2	0.0	0.0	0.0
East Baker Furnace	03/29/13	555	169	160	0.3	--	16.6	47.6	24.4	6.1	4.5	0.5	0.2	0.1	0.0
East Baker Furnace	04/30/13	772	235	160	0.5	--	27.7	28.9	29.6	8.0	4.6	0.9	0.2	0.1	0.0
East Baker Furnace	05/16/13	5,350	1,628	160	3.2	--	31.4	30.2	27.7	6.9	2.7	0.8	0.2	0.1	0.0
East Baker Furnace	06/17/13	4,700	1,430	160	2.8	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	07/17/13	5,780	1,759	160	3.5	--	29.5	29.8	29.1	7.0	3.6	0.8	0.2	0.0	0.0
East Baker Furnace	08/27/13	3,040	925	160	1.8	--	25.6	28.7	31.0	8.5	5.1	0.9	0.2	0.0	0.0
East Baker Furnace	09/25/13	2,040	621	160	1.2	--	25.9	30.1	25.4	9.5	7.4	1.2	0.4	0.1	0.0
East Baker Furnace	10/17/13	1,650	502	160	1.0	--	30.5	32.8	22.8	7.9	4.6	0.6	0.4	0.2	0.2
East Baker Furnace	11/22/13	1,960	596	160	1.2	--	29.6	32.5	24.2	7.9	4.4	0.7	0.4	0.3	0.0
East Baker Furnace	12/17/13	1,770	539	160	1.1	--	31.4	33.2	22.8	7.2	4.2	0.6	0.3	0.3	0.0

(a) Conversion Factor:

P = 1.00 atm, MW = 79 g/mole, R = 0.08205 L*atm/(K*mole), T = 293^{o}K

C ppbv = C ug/L * ((R * T)/(MW*P))

C ppbv = C ug/L * 0.3043

APPENDIX D: Historical SVE System Potential Emissions Estimate for Gasoline Range Organics
Transwestern Compressor Station No. 9 - Roswell, NM

	West Unit				East Unit				Total				
Date	Total GRO C(ug/L)	Flow Rate Q(scfm)	Potential Emissions M(lb/hr)	Projected TPY M(tons/yr)	Total GRO C(ug/L)	Flow Rate Q(scfm)	Potential Emissions M(lb/hr)	Projected TPY M(tons/yr)	Flow Rate Q(scfm)	Potential Emissions M(lb/hr)	Projected TPY M(tons/yr)	Projected GPY M(gal/yr)	Projected PPY M(lbs/yr)
05/21/03	3,220	128	1.5	6.8	1,850	175	1.2	5.3	303	2.8	12.1	3,810	24,147
06/04/03	3,660	127	1.7	7.6	3,450	142	1.8	8.0	269	3.6	15.7	4,942	31,326
12/15/04	979	157	0.6	2.5	2,800	215	2.3	9.9	372	2.8	12.4	3,912	24,796
07/15/05	2,120	153	1.2	5.3	4,140	184	2.9	12.5	337	4.1	17.8	5,622	35,638
05/01/06	2,200	160	1.3	5.8	4,470	198	3.3	14.5	358	4.6	20.3	6,404	40,590
09/13/06	990	165	0.6	2.7	3,140	210	2.5	10.8	375	3.1	13.5	4,259	26,996
06/22/07	826	161	0.5	2.2	1,300	206	1.0	4.4	367	1.5	6.6	2,075	13,150
07/02/08	728	150	0.4	1.8	1,420	193	1.0	4.5	343	1.4	6.3	1,984	12,575
11/05/08	5,840	140	3.1	13.4	4,580	177	3.0	13.3	317	6.1	26.7	8,429	53,426
10/06/09	1,770	142	0.9	4.1	2,010	216	1.6	7.1	358	2.6	11.2	3,549	22,492
08/10/11	3,200	147	1.8	7.7	2,200	147	1.2	5.3	294	3.0	13.0	4,109	26,046
07/03/12	3,700	162	2.2	9.8	2,100	159	1.3	5.5	321	3.5	15.3	4,831	30,623
10/05/12	1,400	162	0.8	3.7	1,200	159	0.7	3.1	321	1.6	6.9	2,162	13,702
10/22/12	1,670	162	1.0	4.4	1,780	160	1.1	4.7	322	2.1	9.1	2,875	18,222
01/29/13	1,130	160	0.7	3.0	928	160	0.6	2.4	320	1.2	5.4	1,705	10,804
02/27/13	1,120	160	0.7	2.9	860	160	0.5	2.3	320	1.2	5.2	1,640	10,395
03/29/13	694	160	0.4	1.8	555	160	0.3	1.5	320	0.7	3.3	1,035	6,557
04/30/13	850	160	0.5	2.2	772	160	0.5	2.0	320	1.0	4.3	1,343	8,515
05/16/13	5,610	160	3.4	14.7	5,350	160	3.2	14.0	320	6.6	28.8	9,078	57,539
06/17/13	4,600	160	2.8	12.1	4,700	160	2.8	12.3	320	5.6	24.4	7,703	48,824
07/17/13	4,680	160	2.8	12.3	5,780	160	3.5	15.2	320	6.3	27.5	8,664	54,914
08/27/13	3,040	160	1.8	8.0	3,040	160	1.8	8.0	320	3.6	16.0	5,036	31,919
09/25/13	2,280	160	1.4	6.0	2,040	160	1.2	5.4	320	2.6	11.3	3,578	22,679
10/17/13	1,900	160	1.1	5.0	1,650	160	1.0	4.3	320	2.1	9.3	2,940	18,637
11/22/13	2,100	160	1.3	5.5	1,960	160	1.2	5.1	320	2.4	10.7	3,363	21,315
12/17/13	1,980	160	1.2	5.2	1,770	160	1.1	4.6	320	2.2	9.8	3,106	19,687

Notes:

1) Concentrations based on Hall Lab analysis of SVE system samples

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Accepted for the record
11/22/2022

NV

TRANSWESTERN PIPELINE COMPANY
An ENERGY TRANSFER Company

October 14, 2020

Mr. Kevin Pierard
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

RE: Response to Comments regarding Approval With Modification
2019 Groundwater Remediation Activities Former Surface Impoundments
Roswell Compressor Station No. 9
Transwestern Pipeline Company
Roswell, Chaves County, New Mexico
NMOCD Abatement Plan #AP-125 (formerly #GW-052)
EPA ID No. NMD986676955
HWB-TWP-20-001

Dear Mr. Pierard;

Transwestern Pipeline, LLC (Transwestern) submits this *Response to Comments* (RTC) regarding the *Approval with Modification Comments regarding the 2019 Annual Report* for the above referenced Site received from the New Mexico Environment Department (NMED). To respond specifically to each of the Agencies comments dated July 2, 2020, the original comment included within the NMED letter is in **bold**, with the Transwestern response included in plain text immediately following the item requiring a response. **Attachment A** contains the revised 2019 Groundwater Remediation Activities report per NMED's comments.

Comment 1

Although the Respondent appropriately submitted two hard copies and an electronic copy in accordance with Order Section IX.A, the hard copies of the Report were not bound. The Report contains approximately 400 pages. Previously, the Respondent submitted bound copies of the annual reports for NMED's review. Submittals must be provided as bound copies in the future.

Due to circumstances associated with COVID (2020), the availability to conduct business and allow the opportunity to bind copies was limited. Comment noted.

Comment 2

The Executive Summary, page vi, states, "1,1-DCE were detected in groundwater at concentrations exceeding the applicable cleanup levels during the sampling events." NMED's October 2, 2019 Response to Comments regarding Response to Approval with

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Modifications with Comments 2018 Annual Report states, "[p]ropose to analyze for 1,4-dioxane [in groundwater samples collected from the wells where chlorinated solvents have been detected within the past ten years] for two consecutive events in the upcoming revision of the sampling and analysis plan." This comment serves as a reminder. No revision required.

Comment noted.

Comment 3

The Executive Summary, page vi, and Section 3.2.1.1, Suspected Perched Aquifer, page 7, state, "[b]ased on field observations [in well SVE-23], the physical properties of the PSH appear to have coated the optical lens of the probe causing groundwater not to be detected by the probe and PSH thickness measurement on March 25, 2020 to be skewed." Comment 1 in NMED's Response to Comments TWP 2020-HWB-TWP-19-003, dated May 26, 2020 states, "PSH thickness of 4.64 feet is not an outlier based on historical data; therefore, the measurement conducted on March 25, 2020 was unlikely skewed. Since PSH thickness significantly fluctuates over time, correlation between depth to water (DTW) and PSH thickness must be evaluated... Evaluate the correlation in future groundwater monitoring reports." The evaluation must be included in the 2020 Report. No revision required.

Comment noted.

Comment 4

The Executive Summary, page vi, and Section 3.2.1.1, Suspected Perched Aquifer, page 7, state, "[f]urther PSH monitoring and manual bailing will continue for SVE-23 in 2020 to monitor and recover PSH, if present." Comment 2 in NMED's May 26, 2020 letter states, "[c]onduct PSH measurements in well SVE-23 without bailing at this time and evaluate correlation between DTW and PSH thickness. Once the depth where PSH is present is evaluated, NMED may require a separate work plan to mitigate PSH." This comment serves as a reminder. No revision required.

Comment noted.

Comment 5

The Executive Summary, page vi, and Section 3.2.1.1, Suspected Perched Aquifer, page 7, state, "the detection of PSH [in well SVE-23] may be residual amounts that may have been collected in the well sand pack overtime." Comment 3 in NMED's May 26, 2020 letter states, "[s]oil investigation is more appropriate to determine if PSH is present in the annular space or trapped in the soil formation. Propose to submit a work plan to delineate the extent of PSH (e.g., using laser-induced fluorescence) at the site, as necessary." This comment serves as a reminder. No revision required.

Comment noted.

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Comment 6

In Section 3.0, Semi-Annual Groundwater Monitoring, page 3, the Respondent states, "[i)n November the sampling event was postponed due to unforeseen circumstances." Explain the nature of the unforeseen circumstances that prevented the November sampling event to be conducted in a response letter.

The sampling event was postponed due to a personal confidential medical matter and requires no further explanation.

Comment 7

In Section 3.0, Semi-Annual Groundwater Monitoring, page 4, the Respondent states, "[p]rior to sampling, the selected monitoring wells were purged and monitored for stabilization of water quality parameters, including pH, specific conductance, dissolved oxygen (DO), oxidation- reduction potential (ORP), and temperature using a calibrated YSI Meter. Purging was considered complete when the measured parameters of the purge water stabilized to within 10 percent for three consecutive measurements." According to Appendix A, Copies of June 2019 and November 2019/January 2020, February 2020, March 2020 and April 2020 Field Notes, groundwater samples were collected prior to meeting all stabilization criteria. For example, the last two dissolved oxygen (DO) readings of groundwater samples collected from well SVE-30 were recorded as 3.69 and 0.63 mg/L during the January 8, 2020 sampling event. Clarify whether purging is considered complete when one or all of these criteria is met in the response letter. If purging is considered complete when all stabilization criteria are met, sampling was not conducted in accordance with the sampling protocol. In this case, provide an explanation for why sampling was conducted without meeting all stabilization criteria.

Transwestern reviewed US EPA Sampling and Analysis Plan Guidance and Template, version 4 dated May 2014. Section 3.0 will be updated to reflect the US EPA Sampling and Analysis Plan Guidance and Template, version 4 dated May 2014 (refer to attached report in **Attachment A**). Stable water quality parameter (temperature, pH and specific conductance) measurements indicate representative sampling is obtainable. Water quality is considered stable if for three consecutive readings:

- Temperature range is no more than +1C;
- pH varies by no more than 0.2 pH units; and,
- Specific conductance readings are within 10% of the average.

According to the May 2014 US EPA SAP Guidance, well stabilization was met.

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Comment 8

In Section 3.2, Groundwater Monitoring & Chemical Analytical Data Results, page 5, the Respondent states, "[t]he water bearing unit at the Site has been reported as a perched aquifer within the area of the former surface impoundments, an uppermost aquifer within which most of the monitoring and remedial activities take place, and the deeper San Andres Formation Aquifer." Comment 3 in NMED's Approval with Modifications Report of 2018 Groundwater Remediation Activities, dated April 23, 2019 stated, "the designation of "uppermost aquifer" is misleading. Provide a different designation to reference the aquifer below the perched zone in future reports." Subsequently, the Respondent's response letter, dated May 30, 2019 stated, "[i]n future reports, the formerly designated "uppermost aquifer" will be referred to as the "upper aquifer", while the water entrained above the discontinuous clay will continue to be referred to as the "perched zone"." Revise the Report to designate the aquifer below the perched zone as upper aquifer throughout the Report and provide replacement pages.

The attached report in **Attachment A** has been updated.

Comment 9

In Section 3.2.2, Groundwater Analytical Results, page 8, the Respondent states, "the laboratory analytical reports are included in Appendix B." A hard copy of the laboratory analytical reports is not required in the future reports. Provide an electronic copy only in the future reports.

Comment noted.

Comment 10

In Section 3.2.2, Groundwater Analytical Results, page 8, the Respondent states, "[a]nalytical data indicates that other vocs were detected in MW-20, MW-22, MW-26, MW-39, MW-41, MW-42, SVE-29, SVE-30, and RW-1." Table 3-5a, Summary of Groundwater Analytical Results- Other Constituents Detected, lists detected volatile organic constituents other than benzene, toluene, ethylbenzene, total xylenes, 1,1-dichloroethane, 1,1-dichloroethene and vinyl chloride for wells MW-42, SVE-30, and RW-1. However, the table does not list the vocs for wells MW- 20, MW-22, MW-26, MW-39, MW-41, and SVE-29. Resolve the discrepancy and provide replacement pages or table. In addition, well SVE-29 is not listed in Table 3-1, Sampling and Analysis Plan. Explain the basis for collecting samples from well SVE-29 in the response letter.

It is a typographic error and well SVE-29 should be SVE-28, it has been corrected in the document attached in **Attachment A**. Table 3-5 shows VOC detects for MW- 20, MW-22, MW-26, MW-39, MW-41, and SVE-28. Table 3-5a shows additional parameters detected in wells. There were no additional parameters detected in MW- 20, MW-22, MW-26, MW-39, MW-41, and SVE-28.

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Comment 11

In Section 3.3, Perch Aquifer Evaluation, page 8, the Respondent states, "adjacent shallow wells SVE-27 and SVE-28 were used to observe drawdown influences [from well RW-1]. SVE-27 was determined to be dry prior to extraction and remained dry through the evaluation." Well SVE-27 would not provide any useful information because the well was dry. Well RW-1 is screened from 36.8 to 41.7 feet below ground surface (bgs) while wells SVE-27 and SVE-28 are screened from 20 to 35 feet bgs and from 25 to 35 feet bgs, respectively. The depths of the screened intervals between the extraction and observation well SVE-27 do not overlap. Well SVE-27 Is not appropriate to be used as an observation well for RW-1. The depths of the screened intervals between the extraction and observation well SVE-28 appear to overlap; however, the distance from the extraction well exceeds 50 feet. In order to better observe drawdown influences from well RW-1, an installation of piezometers in close vicinity of well RW-1 is likely more appropriate. Propose to submit a work plan to install piezometers for the evaluation in the response letter, as appropriate.

Transwestern does not believe it is necessary to install piezometers at this time but will evaluate other options to evaluate drawdown influences from well RW-1.

Comment 12

In Section 3.3, Perch Aquifer Evaluation, pages 8 and 9, the Respondent states, "[a] 4-inch diameter pump with 1-inch outside diameter tubing was inserted into RW-1 and groundwater was extracted at an average rate of approximately 32 gallons per minute (gpm). The average groundwater extraction rate was maintained for approximately two hours, but the extraction process was shortly deactivated after groundwater volumes unexpectedly reached the storage tank capacity, and the evaluation was suspended. The evaluation of the perch[ed] aquifer will resume and continue in 2020 and recommendations for future action of the perch[ed] aquifer will be provided in the 2020 Annual Monitoring Report." The sustainable groundwater production from well RW-1 indicates that a separate aquifer is likely present above the upper aquifer. Because the Respondent proposes to provide recommendations in the 2020 report, submittal of an investigation work plan for the separate aquifer may be deferred at this time.

Comment noted.

Comment 13

In Section 4.0, Remediation System Operation, Maintenance, and Monitoring, page 9, the Respondent states, "the groundwater/PSH recovery portion of the remediation system was deactivated in January, February, March, April and early November and December 2019 due to freezing temperatures, and in April, May and June 2019 for system repairs and in preparation of sampling events." The system was only operational for four months of the year. Although preparation of a sampling event requires 72 hours of deactivation, the

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operation could have resumed once samples were collected. In addition, the system was deactivated for three months due to system repairs. Maintenance activities during this reporting period are discussed in the Report; however, they do not appear to be out of the ordinary. Explain the nature of the repairs that required three months of deactivation in the response letter. Furthermore, the system was deactivated for five months of the year due to freezing temperatures. Such long period of deactivation may adversely affect outcome of the remediation. Resolve the issue and minimize deactivation period due to freezing temperatures as it is expected to be a recurring issue or provide a justification for such long deactivation period in the response letter.

Several components of the current groundwater treatment system (equipment, piping, valves, etc.) are uncovered and exposed to the weather. Transwestern attempts to minimize long system deactivation periods; however, seasonal inclement weather causing temperatures to fall below freezing is unpredictable and can be sporadic daily. Based on historical and current groundwater data for the past five years, groundwater concentrations continue to decrease or remain stable for the site even with system deactivations during freezing temperatures. If the data suggest that the groundwater plume or LNAPL is moving and concentrations trends is increasing, Transwestern will evaluate measures that will allow the groundwater treatment system to operate through the winter months, minimizing deactivation periods.

Comment 14

In Section 4.2, Groundwater Treatment System Monitoring Results, page 10, the Respondent states, "[t]he groundwater extraction flowrate averaged 0.012 gallons per minute (gpm) in 2019." Section 3.3, Perch Aquifer Evaluation, pages 8 and 9, states, "groundwater [from well RW-1] was extracted at an average rate of approximately 32 gallons per minute (gpm)." MPE wells were screened in the upper aquifer and extraction flowrate only averaged 0.012 gpm. Well RW-1 was screened in the perched aquifer and extraction flowrate was sustained at 32 gpm. The upper aquifer is presumably more productive than the perched aquifer. The extraction flowrate of MPE wells may potentially be increased for better contaminant recovery. Evaluate whether the MPE wells are capable of extracting groundwater at a higher flowrate and provide a discussion in the 2020 Report.

Transwestern will evaluate the flowrate of MPE wells and discuss in the 2020 Report.

Comment 15

In Section 5.0, Summary of Findings and Conclusions, page 12, the Respondent states, "[a]nalytical data from the 2019 semi-annual groundwater monitoring events indicates that BTEX and 1,1-DCE were detected at dissolved concentrations exceeding the GCLs in six monitoring wells. These exceedances are within the existing monitoring network. Benzene exceeding the GCLs is closely associated with observable PSH. 1,1-DCE concentrations are generally consistent with previous results." According to Table 3-5, Summary of

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Groundwater Analytical Results, page 45 of 63, the 1,1-dichloroethane (1,1-DCA) concentrations in the groundwater samples collected from well SVE-30 exceeded the applicable screening level, The exceedance of 1,1-DCA must also be noted in the section. Revise the Report and provide replacement pages.

The report has been updated and is attached in **Attachment A.**

Comment 16

In Section 5.0, Summary of Findings and Conclusions, page 13, the Respondent states, "[t]wo semiannual sampling events were completed for the recovery well RW-1, several SVE wells, and monitoring wells MW-10, MW-11, and MW-17 as requested by NMED." Groundwater sampling was conducted in February 2020 at wells MW-10, MW-11, and MW-17. Accordingly, the analytical results from these wells are not included in Figure 3-7, Distribution of Dissolved Benzene Uppermost Aquifer January 2020, and Figure 3-9, Distribution of Dissolved BTEX Uppermost Aquifer January 2020. However, the results collected from these wells must be included in these figures in order to demonstrate that the plumes are delineated at the site. Revise the figures and provide replacement figures.

The figures have been updated and are attached in **Attachment A**. Based on the groundwater data, the plume remains delineated.

Comment 17

Figures 3-4 and 3-5 depict distribution of phase separated hydrocarbon {PSH) in the upper aquifer. However, the thickness of PSH and the color that represents its thickness do not match in the figures. Revise Figure 3-4 and Figure 3-5 to present accurate PSH thickness. Provide replacement figures.

The figures have been revised and are attached in **Attachment A**.

Comment 18

Figures 3-6 through 3-9 present analytical results collected from the perched aquifer (e.g., RW-1). Since the titles of these figures indicate that the data presentation is exclusive to the upper aquifer, the analytical results collected from the perched aquifer must be removed from the figures. Prepare separate figures that present analytical results collected from the perched aquifer and provide these figures. Also, the designation of the "uppermost aquifer" must be corrected to "upper aquifer" in the figures (see Comment 8).

The figures have been updated and are attached in **Attachment A**.

Comment 19

Figures 3-10 and 3-11 depict distribution of 1,1-DCE in the upper aquifer. However, analytical results were also collected from the wells screened in the perched aquifer (e.g., RW-1). Prepare separate figures that present analytical results collected from the perched

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aquifer and provide these figures. Also, the designation of the "uppermost aquifer" must be corrected to "upper aquifer" in the figures (see Comment 8).

The figures have been updated and are attached in **Attachment A**.

Comment 20

In Table 3-5, Summary of Groundwater Analytical Results, page 45 of 63, the 1,1-DCA concentrations in the groundwater samples collected from well SVE-30 exceeded the applicable screening level. However, the exceedance is not presented with bold font in the table. Correct the table and provide a replacement table.

A grey shading has been added to the concentrations exceeding the applicable screening levels, an updated Table 3-5 is attached in **Attachment A.**

Transwestern appreciates the opportunity to continue to work with NMED and NMOCD to continue to bring this site to closure. If you have any further questions or comments regarding these responses, please do not hesitate to contact me at (210) 870-2725 or JD Haines of EarthCon Consultants, Inc. at (317) 450-6126.

Sincerely,

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ATTACHMENT A

Revised 2019 Groundwater Remediation Activities Report

REPORT OF 2019 GROUNDWATER REMEDIATION ACTIVITIES
FORMER SURFACE IMPOUNDMENTS
TRANSWESTERN COMPRESSOR STATION NO. 9
(ROSWELL COMPRESSOR STATION)
6381 NORTH MAIN STREET
ROSWELL, CHAVES COUNTY, NEW MEXICO
NMOCD GW-052
NMED 1656; EPA ID NMD986676955

PREPARED FOR:

TRANSWESTERN PIPELINE COMPANY, LLC
1300 MAIN
HOUSTON, TEXAS 77002

PREPARED BY:

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EarthCon Project No. 02.20180005.00

May 2020

Report of 2019 Groundwater Remediation Activities
Former Surface Impoundments
Transwestern Compressor Station No. 9
(Roswell Compressor Station)
6381 North Main Street
Roswell, Chaves County, New Mexico
NMOCD GW-052
NMED 1656; EPA ID NMD986676955

Prepared For:

Transwestern Pipeline Company, LLC
1300 Main
Houston, TX 77002

May 2020

EarthCon Project No. 02.20180005.00

EarthCon Consultants, Inc. (EarthCon) is submitting to Transwestern Pipeline Company, LLC (Transwestern) this *Report of 2019 Groundwater Remediation Activities* for the Roswell Compressor Station in Roswell, Chaves County, New Mexico. This report has been prepared for the exclusive use of and reliance by Transwestern, and may not be relied upon by any other person or entity without the express written authorization of EarthCon.

Any reliance, use, or re-use of this document (or the opinions, findings, conclusions, or recommendations if any represented herein), by parties other than those expressly authorized by EarthCon is at the sole risk of those parties. This report was prepared by or performed under the direction of the EarthCon Professionals listed below and approved by Transwestern.

Signed:

James Mullooly
Project Professional
EarthCon Consultants, Inc.

Steve Diamond, PE (GA, MO, SC, MI)
Senior Engineer
EarthCon Consultants, Inc.

J.D. Haines, LPG (IN)
Principal Geologist
EarthCon Consultants, Inc.

Date:

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Report of 2019 Groundwater Remediation Activities
Former Surface Impoundments
Transwestern Compressor Station No. 9
(Roswell Compressor Station)
6381 North Main Street
Roswell, Chaves County, New Mexico
NMOCD GW-052
NMED 1656; EPA ID NMD986676955

Prepared For:

Transwestern Pipeline Company, LLC
1300 Main
Houston, TX 77002

May 2020

Certification Statement
40 CFR 270.11(d)(1)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Stacy Boultinghouse, PG (TX, LA) Date
Environmental Manager
Transwestern Pipeline Company, LLC

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EXECUTIVE SUMMARY

This *Report of 2019 Groundwater Remediation Activities* was prepared by EarthCon Consultants, Inc. (EarthCon) on behalf of Transwestern Pipeline Company, LLC (Transwestern) for the Former Surface Impoundments at the Transwestern Compressor Station No. 9 (also known as the Roswell Compressor Station) property located at 6381 North Main Street in Roswell, New Mexico. On March 13, 2013, the New Mexico Environment Department (NMED) issued a Stipulated Final Order (SFO) that governs activities associated with the Former Surface Impoundments. This annual groundwater report was developed in general accordance with *Section IX.D – Reporting Requirements* of the SFO.

The former surface impoundments were historically used to store waste hydrocarbons, including pipeline condensate, pigging wastes, spent solvents, and other wastes and debris from pipeline maintenance activities conducted at the Roswell Compressor Station. The wastes were removed from the former surface impoundments and the area was backfilled with clean soil in 2001. A soil and groundwater remediation system was subsequently designed and installed to address dissolved-phase and phase separated hydrocarbons (PSH) detected in groundwater.

The remediation system in operation at the Roswell Compressor Station uses multiphase extraction (MPE) technology consisting of a soil vapor extraction (SVE) and treatment unit and a groundwater/PSH recovery and treatment unit. The recovery well network currently consists of 9 SVE-only wells and 35 MPE wells. A network of 30 monitoring wells (29 wells installed in the Upper Aquifer and one well installed in the deeper regional San Andres Formation Aquifer) is used to assess groundwater conditions within the Project Area.

During 2019, the SVE portion of the recovery system operated from January through December. During this time the system operated full-time except for periods of maintenance and during the semi-annual sampling events. During the 2018 reporting year, the SVE portion of the system was pulsed which improved efficiency of the system and recovery. The SVE portion of the system was returned to a continuous operation state in February 2019 as per NMEDs request. The groundwater portion of the system operated from June through October in 2019 due to maintenance and sampling challenges. As during prior years of operation, the groundwater portion of the system was also manually deactivated in January, February, March, April, November, and December of 2019 due to freezing temperatures.

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The remediation system recovered approximately 5,767 pounds of vapor-phase hydrocarbons (or approximately 910 equivalent gallons) in 2019 during SVE system operation. The groundwater/PSH recovery system treated and discharged approximately 23,620 gallons of groundwater, removed approximately 2.5 pound (approximately 0.41 equivalent gallons) of dissolved-phase hydrocarbons and recovered approximately 1,550 gallons (9,811 pounds) of PSH. A total of approximately 15,600 pounds of hydrocarbons were removed by the system in 2019. This compares to a total of approximately 16,800 pounds of hydrocarbon removed in 2018 (8,366 pounds of vapor-phase hydrocarbons, 1,330 gallons (8,432 pounds) of PSH, and 3.12 pounds of dissolved phase hydrocarbons). Removal rates for the last five years of operation are included below in **ES.1**. as a comparison.

ES.1 - Historical Hydrocarbon Removal Summary

Year	Extracted Groundwater (gals)	PSH Recovered (gal)	Dissolved-Phase Mass Removal (gal)	Vapor-Phase Mass Removal (gal)	Total Mass Removed (lbs)
2015	64,140	310	0.464	380	3
2016	137,650	350	0.9	320	5
2017	90,550	1,550	1.4	480	8.6
2018	41,120	1,330	0.504	1,320	3.12
2019	23,620	1,550	0.41	910	2.58

While the groundwater/PSH recovery portion of the remediation system was operational, water samples were collected from four locations in the treatment process to assess treatment efficiency and compliance with discharge requirements. Additionally, semi-annual groundwater sampling was conducted in June 2019 and November 2019/January 2020 to assess groundwater conditions.

Consistent with historical data, the June 2019 and November 2019/January 2020 groundwater elevation data indicated groundwater flow in the Upper Aquifer was to the north/northeast on the northern portion of the Project Area and to the southeast on the southern portion of the Project Area. The divide in the hydraulic gradient is located near the northeast corner of the Facility, indicating the presence of a complex water-bearing unit with areas of preferential flow.

During the 2019 semi-annual groundwater sampling events, PSH was present in groundwater monitoring well, SVE well and MPE wells located in the vicinity of the Former Surface Impoundments. Additionally, dissolved benzene, toluene, ethylbenzene, and xylenes (BTEX),

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and 1,1-DCE were detected in groundwater at concentrations exceeding the applicable cleanup levels during the sampling events. The data indicates delineation of PSH and dissolved constituents of concern to applicable New Mexico Water Quality Control Commission's (NMWQCC) standards and the EPA Maximum Contaminant Levels (MCLs) was maintained within the existing monitoring network.

Based on the groundwater remediation activities completed in 2019, Transwestern recommends continued operation of the remediation system in 2020 to recover PSH and reduce dissolved-phase hydrocarbons, continued semi-annual groundwater monitoring, and continued monitoring of the effluent from the SVE system and discharge from the groundwater treatment system.

During the time of annual report development, further evaluation of the PSH presence (4.64 feet, March 2020) in SVE-23 was performed in April 2020. Based on field observations, the physical properties of the PSH appear to have coated the optical lens of the probe causing groundwater not to be detected by the probe and PSH thickness measurement on March 25, 2020 to be skewed. Also, the detection of PSH may be residual amounts that may have been collected in the well sand pack overtime. Further PSH monitoring and manual bailing will continue for SVE-23 in 2020 to monitor and recover PSH, if present. Future remedial action will be evaluated based results of the PSH monitoring activities.

In addition to the PSH evaluation in SVE-23, field activities were underway to evaluate the suspected perch zone in April 2020. Groundwater was extracted from recovery well RW-1 to evaluate groundwater extraction rates and recharge. Adjacent shallow wells SVE-27 and SVE-28 were used to observed drawdown influences. An average groundwater extraction rate of approximately 32 gallons per minute (gpm) was maintained for approximately two hours but the extraction process was shortly deactivated after groundwater volumes unexpectedly reached the storage tank capacity. The evaluation was temporarily suspended. The evaluation of the perch aquifer will resume and continue in 2020 and recommendations for future action of the perch aquifer will be provided in the 2020 Annual Monitoring Report.

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1.0 INTRODUCTION

This *Report of 2019 Groundwater Remediation Activities* was prepared by EarthCon Consultants, Inc. (EarthCon) on behalf of Transwestern Pipeline Company, LLC (Transwestern) to document on-going corrective actions associated with the Former Surface Impoundments at the Transwestern Compressor Station No. 9 (also known as the Roswell Compressor Station) property, located at 6381 North Main Street in Roswell, New Mexico (the "Site").

The Site consists of the Roswell Compressor Station and the area undergoing corrective action (the "Project Area") (**Figure 1-1** and **Figure 1-2**). On March 13, 2013, the New Mexico Environment Department (NMED) issued a Stipulated Final Order (SFO) that governs environmental activities conducted within the Project Area. This report was developed in general accordance with *Section IX.D – Reporting Requirements* of the SFO.

The Facility is an active natural gas compressor station, owned and operated by Transwestern, located approximately 8 miles north of the city center of Roswell, New Mexico along the eastern side of U.S. Highway 285. The Facility occupies approximately 77 acres of land in Section 21 (SW¼ of the SW¼) and Section 28 (NW¼ of the NW¼) of Township 9S and Range 24E, Chaves County, New Mexico (**Figure 1-1**). Access is via U.S. Highway 285, and the entire Facility is secured by a chain-link fence with locked gates.

The Project Area encompasses a portion of the northeast corner of the Facility and a portion of a 40-acre easement of land to the northeast, leased from the New Mexico State Land Office (SLO) State Trust Land for remediation and monitoring purposes (**Figure 1-2**). There are no adjacent structures on either the Facility or the State Land other than those associated with the remediation system. Most of the off-site extraction and monitoring wells are located within a fenced perimeter.

The Facility is located along the Transwestern natural gas pipeline that extends from Texas to the Arizona/California border, and serves as the district office for Transwestern's New Mexico operations. The compressor station services two 30-inch main lines and two 24-inch lateral pipelines. The primary function of the compressor station is to boost the pressure of the natural gas stream by means of compressors powered by natural gas-fueled internal combustion engines. Additionally, the Facility conducts gas transmission pipeline maintenance operations that generate waste hydrocarbons, including pipeline condensate, pigging wastes, spent solvents, and other wastes and debris, which were historically discharged to the former surface impoundments (also

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referred to as Pits 1 and 2). Currently, wastes generated as a result of operations are transported offsite for disposal in accordance with all local, state and federal requirements.

The historic wastes were removed from the former surface impoundments and the excavations were lined with a polyethylene liner and backfilled with clean soil in 2001. A soil and groundwater remediation system was subsequently designed and installed to address dissolved and phase separated hydrocarbons (PSH) detected in groundwater in 2002/2003. The soil vapor extraction (SVE) portion of the system began operation in March 2003, and the groundwater/PSH recovery portion of the system began operation April 2004.

The remediation system consists of SVE blowers with a treatment unit, a groundwater/PSH recovery and treatment unit, and a network of 9 active SVE-only wells and 35 multi-phase extraction (MPE) wells (**Figures 1-3** and **1-4**). Three additional SVE wells (SVE-1A, 2A, and 3) are inactive at the Site. Vapor-phase hydrocarbons are extracted via SVE-only wells and MPE wells and routed to two Baker Furnace thermal oxidizer units for treatment. Groundwater and PSH are recovered by pneumatic pumps installed in the MPE recovery wells. The recovered fluids are conveyed to a 210-barrel aboveground storage tank that serves as a surge tank and separation unit for PSH and groundwater. Separated groundwater is conveyed to a treatment train consisting of an air stripper followed by a particulate filter vessel and two additional liquid-phase granulated activated carbon (GAC) units in series. The treated water is then conveyed to an irrigation water tank for dispersal via an irrigation system. PSH separated in the surge tank is removed by a vacuum truck and sent for recycling to a permitted off-site facility periodically. The vapor stream from the air strippers is treated via two vapor-phase GAC units followed by discharge to the atmosphere.

Typically, the SVE portion of the system operates year-round, and groundwater/PSH recovery occurs from spring to fall, with brief shutdowns for repair and maintenance. However, for the 2019 reporting year the system operated from June to October due to maintenance and groundwater sampling challenges. In addition, the system is deactivated for 48 to 72 hours in preparation for semi-annual monitoring.

Currently, a network of 30 monitoring wells (29 installed in the Upper Aquifer and one installed in the deeper regional San Andres Formation Aquifer) is used to assess groundwater conditions within the Project Area.

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This report documents groundwater remediation and monitoring activities conducted at the Project Area during year 2019. Field activities were conducted by CMB Environmental & Geologic Services, Inc. (CMB) of Roswell, New Mexico.

2.0 SCOPE OF ACTIVITIES

The activities performed at the Site during 2019 include the following and are summarized below:

- Semi-annual groundwater monitoring;
- Remediation system operation, maintenance, and monitoring;
- PSH removal and evaluation in well SVE-23;
- Evaluation of a suspected perched aquifer

3.0 SEMI-ANNUAL GROUNDWATER MONITORING

Semi-annual groundwater sampling to assess groundwater conditions was conducted in June 2019 and November of 2019/January of 2020 by CMB in general accordance with the SFO. In November the sampling event was postponed due to unforeseen circumstances. The groundwater monitoring network at the Site consists of 30 monitoring wells, of which 17 are included within the monitoring plan and the remaining wells are used for gauging. Groundwater samples were collected from 14 of these monitoring wells during the June 2019 sampling event and from 23 of these monitoring wells during the November 2019/January 2020 sampling event, in general accordance with the approved *Sampling and Analysis Plan* (SAP) presented in **Table 3-1**.

In correspondence dated August 17, 2018, NMED requested that groundwater samples be collected for wells RW-1 and SVE wells during the 2019 semi-annual sampling events. SVE-1A, SVE-2A, SVE-3, SVE-24 through SVE-26 were gauged and determine to be dry during the two sampling events. During the first semiannual sampling event, SVE-23 and SVE-27 were not accessible due to a snake hazard and SVE-22 was reported to contain PSH. During the second semiannual sampling event, SVE-23 contained PSH and SVE-22 and SVE-27 were reported dry. Two active SVE wells (SVE-28, SVE-30) and one former recovery well (RW-1) were sampled during the June 2019 and November 2019/January 2020 sampling events to assess shallow groundwater conditions. In correspondence dated April 23, 2019, NMED requested groundwater samples to be collected in wells MW-10, MW-11, and MW-17 in November 2019.

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Prior to commencing semi-annual groundwater gauging and sampling, the remediation system was manually deactivated for a period of 48 to 72 hours. Depth to PSH, if present, and depth to groundwater was measured in each monitoring well and MPE well using an interface probe, which consists of an optical sensor probe capable of distinguishing between PSH and groundwater. Apparent PSH thickness and water levels were recorded to the nearest 0.01-foot and the data is presented in **Table 3-2**.

Prior to sampling, the selected monitoring wells were purged and monitored for stabilization of water quality parameters, including pH, specific conductance, dissolved oxygen (DO), oxidation-reduction potential (ORP), and temperature using a calibrated YSI Meter. According to US EPA Sampling and Analysis Plan Guidance and Template, version 4 dated May 2014. Stable water quality parameter (temperature, pH and specific conductance) measurements indicate representative sampling is obtainable. Water quality is considered stable if for three consecutive readings:

- temperature range is no more than +1C;
- pH varies by no more than 0.2 pH units;
- specific conductance readings are within 10% of the average. Field parameters recorded from the June 2019, November 2019/January 2020, and February 2020 sampling events are presented in **Table 3-3**. Historical field parameters recorded from the three sampling events prior to the 2019 sampling events are included in **Table 3-4**.

A combination of disposable bailers and bladder pumps with dedicated tubing was used to purge and collect groundwater samples from selected monitoring wells. The groundwater samples collected during the semi-annual sampling event were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) via EPA Method 8260 or for Volatile Organic Compounds (VOCs) via EPA Method 8260B in June 2019, and in November 2019/January 2020 for BTEX via EPA Method 8260 or for VOCs via EPA Method 8260Bin accordance with the SAP. Quality control samples including groundwater sample duplicates, field blanks, equipment blanks, and trip blanks were collected during the semi-annual sampling events. Purged groundwater and equipment decontamination water were collected in a dedicated 55-gallon drum during sampling and then transferred to the surge tank for on-site treatment and disposal as described in Section 1.0.

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Copies of the field documentation for the June 2019, November 2019/January 2020 and February 2020 sampling events are included in **Appendix A**.

3.1 Groundwater Monitoring Regulatory Criteria

Groundwater cleanup levels (GCLs) were identified for evaluating analytical data for groundwater samples collected during the semi-annual sampling events, in accordance with Section VI.A. of the March 2013 SFO for the Site. The GCLs shown in **Table 3-5** were modified using the New Mexico Water Quality Control Commission's (NMWQCC) standards amended by the New Mexico Administrative Code (NMAC) December 2018 and were identified as described in the following paragraphs.

The target constituents-of-concern (COCs) for the Project Area include BTEX, 1,1-dichloroethane (1,1-DCA), and 1,1-dichloroethene (1,1-DCE). The GCLs for the target COCs were identified using the NMWQCC standards amended by the NMAC December 2018 and the EPA Maximum Contaminant Levels (MCLs). Where standards exist in both regulations, the lower of the two levels is used as the applicable cleanup standard. If neither a NMWQCC standard nor an MCL has been established for a COC, then the cleanup level is identified as the screening level for tap water in Table A-1 of the February 2019 NMED *Risk Assessment Guidance for Site Investigation and Remediation*, or the EPA Region 6 Screening Levels for tap water.

The Project Area has been in active remediation since 2001 and the remediation system formerly operated under NMOCD's formal Discharge Permit GW-052. The NMOCD determined that the Discharge Permit is not necessary for the Site, and it is more practical to regulate the Site under a *Stage 2 Abatement Plan* (AP). In December 2015, the Discharge Permit for the Site was allowed to expire. A Stage 2 AP for the Site was submitted to the NMOCD and was approved on March 14, 2016.

3.2 Groundwater Monitoring & Chemical Analytical Data Results

The water bearing unit at the Site has been reported as a perched aquifer within the area of the former surface impoundments, an upper aquifer within which most of the monitoring and remedial activities take place, and the deeper San Andres Formation Aquifer. To date, the deeper San Andres Formation Aquifer has not been impacted by the release associated with the Former Surface Impoundments. Future evaluations will be performed to confirm the presence of the perched aquifer in 2020. Well

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locations are illustrated in **Figure 3-1** and a summary of well construction information is provided in **Table 3-6**.

Groundwater elevations shown in **Table 3-2** were calculated using the June 2019 and November 2019/January 2020 groundwater elevation data collected from the Site groundwater monitoring wells and top-of-casing data from a survey conducted by PR Patton & Associates in October 2013. Groundwater elevations for the potentiometric surface maps were not included from RW-1 and the SVE wells as these locations are completed at shallower depths above the upper aquifer.

The potentiometric surface maps for the Upper Aquifer presented in **Figures 3-2, 3-3a**, and **3-3b** indicate that groundwater flows generally to the north on the northern portion of the Project Area and to the southeast on the southern portion of the Project Area. The divide in the hydraulic gradient is located near the northeast corner of the Facility, indicating the presence of a complex water-bearing unit with areas of preferential flow.

Based on the groundwater elevation data, the hydraulic gradient for the northern component of groundwater flow, between monitoring wells MW-12 and MW-40, was 0.015 ft/ft during the June 2019 sampling event and 0.020 ft/ft during the November 2019/January 2020 sampling event, which appears to be consistent with historical data. The hydraulic gradient for the southeastern component of groundwater flow, between monitoring wells MW-16 and MW-35, was 0.006 ft/ft during the June 2019 sampling event and 0.0057 ft/ft during the November 2019/January 2020 sampling event, which appears to be consistent with historical data.

A review of historical groundwater elevation data for the Site monitoring wells (**Table 3-2**) indicates the Upper Aquifer within the Project Area has experienced an average decrease in groundwater level elevation of 1.03 feet between 2009 and 2019. The groundwater elevation in MW-24D, installed in the deeper regional San Andres Formation Aquifer, decreased by 4.43 feet between 2009 and 2019.

3.2.1 PSH Thickness

Groundwater gauging data collected from Site monitoring and recovery wells during the June 2019 sampling event indicates that the average apparent PSH thickness was 1.10 feet, with a maximum of 2.40 feet measured in MPE-10. Groundwater gauging data collected from Site monitoring and recovery wells during the November 2019/January 2020 sampling event indicates

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that the average apparent PSH thickness was 1.0 feet, with the maximum thickness of 2.80 feet measured in MPE-40.

3.2.1.1 Suspected Perched Aquifer

The June 2019 groundwater gauging data indicates that SVE-22 showed a low level of PSH (0.01ft), while SVE-23 showed 0.65ft of PSH during the November 2019/January 2020 sampling event. In June 2019, further evaluation was performed for SVE-22 and indicated a PSH thickness of 0.01 ft considering that the depth of PSH was recorded at 32.74 feet below top of casing (btoc) and depth to bottom of the SVE well was recorded at 32.75 feet (btoc). Based on the evaluation, the optical lens of the interface probe was being coated by black biofilm buildup located at the bottom of the SVE well rather than detecting the presence of PSH.

During the June 2019 semi-annual groundwater monitoring event, groundwater levels and PSH thicknesses were not evaluated in wells SVE-23 and SVE-27 due to a snake hazard. In an NMED comment letter dated February 21, 2020, NMED requested that the hazard be evaluated, and collect he required data from the aforementioned wells. On March 25, 2020, SVE-27 was gauged as dry and SVE-23 was found to contain 4.64 feet of apparent PSH thickness. On April 4 and April 6, 2020, removal of PSH was performed on SVE-23 to evaluate thickness and rebound. Prior to manual bailing on April 4, 2020, approximately 0.9 foot of PSH thickness was measured in SVE-23 and afterwards, PSH was not detected. Prior to manual bailing on April 6, 2020, approximately 0.4 foot of PSH thickness was measured in SVE-23 and afterwards, PSH thickness was measured to be 0.02 foot. A total of approximately 0.07 gallon of PSH was recovered via manual bailing. On April 23, 2020, PSH thickness was measured to be approximately 0.4 foot in SVE-23, which approximately 0.04 gallon of PSH was recovered via manual bailing. Based on field observations, the physical properties of the PSH appear to have coated the optical lens of the probe causing groundwater not to be detected by the probe and PSH thickness measurement on March 25, 2020 to be skewed. Also, the detection of PSH may be residual amounts that may have been collected in the well sand pack overtime. Further PSH monitoring and manual bailing will continue for SVE-23 in 2020 to monitor and recover PSH, if present. In addition, the SVE-23 will redeveloped using clean water and bailing techniques to remove potential trapped PSH in the well sand pack. Field notes are included in **Appendix A**.

3.2.1.2 Upper Aquifer

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The areal extent of PSH in the Upper Aquifer, as measured during the June 2019 and November 2019/January 2020 semi-annual sampling events, remains delineated within the Project Area and is consistent with 2018 data. (**Figures 3-4** and **3-5**). Current and historical groundwater gauging data is presented in **Table 3-2**.

3.2.2 Groundwater Analytical Results

Groundwater samples were collected and analyzed for BTEX by EPA method 8260 or for VOCs via EPA Method 8260B in accordance with the SAP. The analytical results for groundwater samples collected during the June 2019 and November 2019/January 2020 sampling events are summarized in **Table 3-5** and the laboratory analytical reports are included in **Appendix B**. During the November 2019 sampling event, groundwater was inadvertently not sampled from MW-10. MW-11, and MW-17, which were subsequently sampled in February 2020. Due to PSH detections, a groundwater sample was not collected from MW-16 in June 2019 and November 2019/January 2020, and SVE-23 in January 2020.

According to the analytical results, BTEX were not detected above reporting limits in MW-10, MW-11, MW-13, MW-14, MW-17, MW-20 through MW-21, MW-24D, MW-27, MW-29, MW-32, MW-34, MW-35, MW-37, MW-39, MW-40, MW-41, MW-42. Analytical data indicates that BTEX was detected above reporting limits in wells SVE-28, SVE-30, and RW-1, but benzene was the only constituent in wells SVE-30 and RW-1 that exceeded GCLs / Analytical data indicates that other VOCs were detected in MW-20, MW-22, MW-26, MW-39, MW-41, MW-42, SVE-28, SVE-30, and RW-1 but only 1,1-DCE was detected at concentrations exceeding GCLs in wells MW-26, and MW-39 and 1,1 DCA was detected in concentrations exceeding GCLs in wells SVE-30 during the June 2019 and November 2019/January 2020 semi-annual sampling events. Based on the 2019 analytical data, the areal distribution of BTEX, 1,1-DCA, and 1,1-DCE in groundwater remains delineated within the Project Area and is consistent with the 2018 data (**Figures 3-6** through **3-11**).

Analytical results for the blanks are included in the laboratory data packages in **Appendix B** and indicate that there were no target analyte detections. For quality assurance purposes, the relative percent difference (RPD) of the reported concentrations between the original samples and their duplicates was calculated for each semi-annual sampling event. The RPDs were at or below 10% for each sampling event, with the calculations included in **Appendix B**.

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3.3 Perch Aquifer Evaluation

On Aril 1, 2020 groundwater was extracted from recovery well RW-1 to evaluate the suspected perched aquifer. Adjacent shallow wells SVE-27 and SVE-28 were used to observed drawdown influences. SVE-27 was determined to be dry prior to extraction and remained dry through the evaluation. A 4-inch diameter pump with 1-inch outside diameter tubing was inserted into RW-1 and groundwater was extracted at an average rate of approximately 32 gallons per minute (gpm). The average groundwater extraction rate was maintained for approximately two hours, but the extraction process was shortly deactivated after groundwater volumes unexpectedly reached the storage tank capacity, and the evaluation was suspended. The evaluation of the perch aquifer will resume and continue in 2020 and recommendations for future action of the perch aquifer will be provided in the 2020 Annual Monitoring Report.

4.0 REMEDIATION SYSTEM OPERATION, MAINTENANCE, AND MONITORING

During 2019, the SVE portion of the recovery system was operational year-round and included all circuits except for when the SVE system was deactivated for equipment repairs and semi-annual sampling events.

The groundwater/PSH recovery portion of the remediation system operated from June 28, 2019 to October 30, 2019, except for periods of maintenance and during the semi-annual sampling events. Specifically, the groundwater/PSH recovery portion of the remediation system was deactivated in January, February, March, April and early November and December 2019 due to freezing temperatures, and in April, May and June 2019 for system repairs and in preparation of sampling events. The groundwater/PSH recovery portion of the remediation system was deactivated 48 to 72 hours prior to the 2019 semi-annual sampling events (May 2019 and November 2019/January 2020).

The remediation system was monitored on a weekly basis to assess for continuous operation of components, maintenance needs, and early detection of potential leaks. System readings, such as flow rates, pressure, and temperature, were collected by the operator on a routine basis to monitor system performance and treatment efficiencies. During this reporting period, maintenance activities of the groundwater recovery system consisted of repairing the air compressor, cleaning the air stripper, changing bag and sock filters, cleaning high sump GACs, replacing the liquid level float switch on the surge tank, repairing stress cracks and replacement

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of the equalization tank, replacing the O-ring on the thermostat, replacing the chart recorder paper, and winterizing the air stripper in preparation for cold temperatures. Maintenance activities on the SVE portion of the treatment system during this reporting period included installing new 55-gallon GAC drums on the air stripper, repaired flex hose on the west baker unit, repairing a 4" line, repairing the outlet on the surge tank, repairing an airline on MPE-27, and replacing the chart recorder paper periodically.

Monthly samples were collected from June through October 2018 from the groundwater treatment system at four locations in the treatment process: at the inlet of the air-stripper (Pre-Treatment); at the outlet of the air stripper (Post Air Stripper); at the outlet of the first GAC unit (Between GACs); and at the outlet of the irrigation water holding tank (Post-Treatment). The samples collected from the Pre-Treatment, Post Air Stripper, and Between GACs locations were analyzed for BTEX via method 8021B, and the Post-Treatment sample was analyzed for anions via EPA method 300.0, dissolved metals via EPA method 200.7, and VOCs via EPA method 8260B. In addition, vapor readings are collected bimonthly along the process line of the vapor-phase granular carbon connected to the air stripper air exhaust port. Readings were inadvertently not collected by field personnel in October 2019. Monitoring data is summarized in **Table 4-5**.

Influent air samples from the process pipes prior to entering the east and west Baker Furnaces were collected and analyzed for total VOCs (TVOCs) by EPA Method TO-15 in April, June, and September 2019, and January 2020. Total VOCs concentrations are presented in **Table 4-1**.

4.1 Soil Vapor Extraction System Monitoring Results

The average combined air flowrate of the SVE system was approximately 320 cubic feet per minute (cfm) with an applied vacuum ranging between 18 and 100 inches of water. The two thermal oxidizers maintained an average chamber treatment temperature of 1,537°F, which is above the required thermal destruction temperature of 1,400°F. To improve mass recovery, the vacuum extraction efforts were isolated for each circuit periodically throughout 2018 in an effort to pulse the system for optimization purposes. At the request of NMED, all circuits were placed back in full operation in February 2019 and pulsing the system was discontinued.

Air samples of influent vapor were collected from the Baker Furnaces in April, June, and September 2019, and January 2020 and were analyzed for TVOCs using EPA method TO-15. Analytical data results summarized in **Table 4-1** indicate that the SVE system recovered

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approximately 5,767 pounds (or about 910 equivalent gallons) of vapor-phase TVOCs in 2019, compared to the approximately 8,366 pounds (or about 1,320 gallons) removed in 2018. Historical recovery amounts are provided in **Table 4-6.**

Laboratory data packages are included in **Appendix C**. Historical SVE data was analyzed for TPH in the gasoline range organics (GRO) via EPA method 8015D. These historical tables have been included in **Appendix D**.

4.2 Groundwater Treatment System Monitoring Results

The groundwater extraction flowrate averaged 0.012 gallons per minute (gpm) in 2019. Operation records for the irrigation system presented in **Table 4-2** indicate that the volume of groundwater recovered, treated, and discharged in 2019 was approximately 23,620 gallons. According to **Table 4-3**, approximately 2.5 pound (0.41 equivalent gallons) of dissolved-phase hydrocarbons were removed by the groundwater/PSH recovery system in 2019. The amount of dissolved phase hydrocarbons removed in 2019 appears to have decreased compared to 2018, during which 3.1 pounds (0.50 equivalent gallons) of dissolved phase hydrocarbons were removed from approximately 41,420 gallons of treated groundwater. A total of approximately 70 pounds of dissolved TVOCs has been removed by the groundwater remediation system since 2009. In addition, approximately 1,550 gallons of PSH accumulated in the surge tank in 2019, which is an increase from the amount of PSH accumulated in the surge tank in 2018 (1,330 gallons). Historical PSH recovery volumes are provided in **Table 4-6.**

Monthly water treatment samples were collected between June and October 2019. Samples from the locations identified as Pre-Treatment, Between GACs, and Post Air Stripper were analyzed for BTEX via EPA Method 8021B, and the Post Treatment sample was analyzed for anions via EPA method 300.0, dissolved metals via EPA method 200.7, and VOCs via EPA method 8260B. The analytical data for these samples demonstrates that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater. Furthermore, analytical data for the Post-Treatment sample indicate that BTEX was not detected above laboratory reporting limits. Analytical data for the monthly samples is summarized in **Table 4-4** and laboratory data packages are included in **Appendix C**.

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5.0 SUMMARY OF FINDINGS AND CONCLUSIONS

Based on the information presented in the previous sections regarding the operation of the remediation system installed at the Project Area, the following findings and conclusions are offered:

- The 2019 groundwater gauging data identified a northern component of groundwater flow with a gradient of 0.015ft/ft and 0.020ft/ft during the June 2019 and November 2019/January 2020 sampling events respectively, and a southeastern component of groundwater flow with a gradient of 0.006 ft/ft during the June 2019 sampling event and 0.0056 ft/ft during the November 2019/January 2020 sampling event. These gradients are generally consistent with previous years' observations.

- Historical gauging data for the Site monitoring wells indicates that between 2009 and 2019 groundwater elevation in the Upper Aquifer of the Project Area has decreased by an average of 1.03 feet and groundwater elevation in the deeper San Andres Formation Aquifer has decreased by 4.43 feet.

- Groundwater gauging data collected from the Site monitoring and recovery wells during the June 2019 and November 2019/January 2020 semi-annual groundwater monitoring events indicates that PSH remains delineated within the Project Area. The average apparent thicknesses of PSH measured in 2019 were 1.02 feet during the June 2019 sampling event and 0.95 feet during the November 2019/January 2020 sampling event. The maximum apparent thicknesses of PSH measured in 2019 was 2.4 feet in MPE-10 during the June 2019 sampling event and 2.80 feet in MPE-40 during the November 2019/January 2020 sampling event.

- Analytical data from the 2019 semi-annual groundwater monitoring events indicates that BTEX, 1,1-DCE, and 1,1-DCA were detected at dissolved concentrations exceeding the GCLs in six monitoring wells. These exceedances are within the existing monitoring network. Benzene exceeding the GCLs is closely associated with observable PSH. 1,1-DCE concentrations are generally consistent with previous results. 1,1-DCA is above GCL in SVE-30, which is located in the monitoring network.

- During 2019, the SVE portion of the recovery system operated year-round except for periods of maintenance and prior to sampling events. The groundwater/PSH recovery

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portion of the system operated full-time from June to October except for periods of system maintenance, and the semi-annual sampling events. Approximately 5,767 pounds of vapor-phase TVOCs (approximately 910 equivalent gallons) were recovered by the SVE technology.

- The groundwater/PSH recovery system recovered, treated, and discharged 23,620 gallons of groundwater in 2019. Approximately 2.5 pounds of dissolved-phase BTEX hydrocarbons were removed by the groundwater/PSH recovery system in 2019. A total of approximately 71 pounds of dissolved-phase hydrocarbons have been removed by the system since May 2009. The groundwater/PSH recovery system recovered approximately 1,550 gallons (approximately 9,811 pounds) of PSH in 2019. In total, approximately 15,600 pounds of hydrocarbons were removed by the system in 2019.

- Well SVE-23 was evaluated for PSH thickness and rebound in April 2020. Additional gauging and PSH removal were conducted for SVE-23 to evaluate PSH rebound and to evaluate future remedial investigation or actions.

- In April 2020, groundwater was extracted from recovery well RW-1 to evaluate suspected perched aquifer. Groundwater extraction was conducted for two hours and water levels were monitored in RW-1 and SVE-28 during this time. Extraction was deactivated after groundwater volumes unexpectedly reached the storage tank capacity, and the evaluation was temporarily suspended. The evaluation of the perch aquifer will resume and continue in 2020 and recommendations for future action of the perch aquifer will be provided in the 2020 Annual Monitoring Report. Two semiannual sampling events were completed for the recovery well RW-1, several SVE wells, and monitoring wells MW-10, MW-11, and MW-17 as requested by NMED.

- Samples collected on a monthly basis between June and October 2019 from the groundwater treatment system demonstrate that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater.

Based on the 2019 groundwater data, the groundwater treatment system continues to control the migration of the PSH plume and continues to recover PSH and dissolved-phase hydrocarbons. In 2019, 1,550 gallons of PSH were recovered. This is an increase from the 2018 reporting year in which approximately 1,330 gallons of PSH were recovered.

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TABLES

Table 3-1. Sampling and Analysis Plan
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	1st Semiannual Event Analytical Requirements	2nd Semiannual Event Analytical Requirements	Date of Most Recent Sample	Benzene (ppb) Most Recent Sample	1,1-Dichloroethene (1,1-DCE) (ppb) Most Recent Sample	Consecutive Events < NMWQCC Standard or EPA MCL	Comments
MW-10	---	BTEX	02/13/20	< 1	NA	0	Sampled as per NMED request
MW-11	---	BTEX	02/13/20	< 1	NA	0	Sampled as per NMED request
MW-13	---	BTEX	01/08/20	< 1	NA	23	
MW-14	---	BTEX	01/07/20	< 1	NA	12	
MW-16	BTEX	BTEX	05/31/18	320	NA	0	PSH in well, did not sample in 2019
MW-17	---	BTEX	02/13/20	< 1	NA	0	Sampled as per NMED request
MW-20	VOCs	VOCs	01/06/20	< 1	2.5	0	COCs: DCE
MW-21	BTEX	BTEX	11/26/19	< 1	NA	22	
MW-22	VOCs	VOCs	01/06/20	< 1	1.1	30	COCs: DCE
MW-24D	---	BTEX	01/07/20	< 1	NA	9	Clean deep well
MW-26	VOCs	VOCs	01/06/20	< 1	45	0	COCs: DCE
MW-27	BTEX	BTEX	11/26/19	< 2	NA	3	
MW-29	BTEX	BTEX	11/25/19	< 1	NA	17	
MW-32	---	BTEX	11/25/19	< 1	NA	23	
MW-34	BTEX	BTEX	11/20/19	< 1	NA	9	
MW-35	---	BTEX	11/21/19	< 1	NA	32	Clean downgradient well
MW-37	---	BTEX	11/20/19	< 1	NA	22	Clean downgradient well
MW-39	VOCs	VOCs	01/07/20	< 1	24	0	COCs: DCE
MW-40	VOCs	VOCs	01/08/20	< 1	< 1	10	Clean downgradient well
MW-41	VOCs	VOCs	01/08/20	< 1	1.1	9	COCs: DCE
MW-42	VOCs	VOCs	01/08/20	< 1	1.4	8	COCs: DCE
RW-1	VOCs	VOCs	01/08/20	26	<1	0	Sampled as per NMED request
SVE-1A	VOCs	VOCs	--	--	--	--	Dry
SVE-2A	VOCs	VOCs	--	--	--	--	Dry
SVE-3	VOCs	VOCs	--	--	--	--	Dry
SVE-22	VOCs	VOCs	--	--	--	--	Dry
SVE-23	VOCs	VOCs	--	--	--	--	PSH in well in January 2020
SVE-24	VOCs	VOCs	--	--	--	--	Dry
SVE-25	VOCs	VOCs	--	--	--	--	Dry
SVE-26	VOCs	VOCs	--	--	--	--	Dry
SVE-27	VOCs	VOCs	--	--	--	--	Dry
SVE-28	VOCs	VOCs	01/08/20	1.5	<1	0	Sampled as per NMED request
SVE-30	VOCs	VOCs	01/08/20	8.9	<5.0	0	Sampled as per NMED request
SVE-31	VOCs	VOCs	--	--	--	--	Dry

Notes:

Prepared by: JIM 2/12/20

Checked by: RAH 2/21//20

1) Non-detect results are shown with the "<" symbol followed by the reporting limit
2) NA - Not analyzed
3) BTEX (Benzene, Toluene, Ethylbenzene and Xylenes) and VOCs (Volatile Organic Compounds) to be analyzed by EPA method 8260B
4) ppb - parts per billion
5) NMWQCC - New Mexico Water Quality Control Commission
6) EPA MCL - United States Environmental Protection Agency's Maximum Contamination Level
7) This SAP was approved in NMED's Approval with Modifications Letter dated November 6, 2017.
8) Monitoring wells MW-5, MW-6, MW-8, MW-9, MW-18, MW-19, MW-23D, MW-25D, MW-31,MW-36, and MW-38 were plugged and abandoned in August 2013.
9) The following monitoring wells were removed from the SAP: MW-1B, MW-2, MW-3, MW-7, MW-10, MW-11, MW-12, MW-15, MW-17, MW-28, MW-30, MW-33. Furture sampling of the wells may be performed to obtain data to support plume analytics.
10) Sampling Analysis Plan revised and approved by NMED on May 31, 2019

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-1B	3/10/09	3609.96	60.46	62.20	1.74	3,549.08
	10/8/09		sheen	64.18	sheen	3,545.78
	1/26/10		60.32	60.60	0.28	3,549.57
	3/22/10		59.82	61.86	2.04	3,549.65
	4/17/11		60.18	62.05	1.87	3,549.33
	12/22/11		61.01	63.24	2.23	3,548.41
	4/17/12		60.65	62.45	1.80	3,548.88
	10/18/12		61.88	64.21	2.33	3,547.52
	1/22/13		61.38	63.55	2.17	3,548.06
	4/15/13		61.24	63.10	1.86	3,548.27
	11/3/13	3610.74 (h)	62.19	63.35	1.16	3,548.27
	4/30/14		61.50	62.73	1.23	3,548.94
	11/19/14		61.87	64.03	2.16	3,548.35
	4/21/15		61.76	63.25	1.49	3,548.62
	11/3/15		61.88	63.66	1.78	3,548.43
	4/29/16		61.81	63.28	1.47	3,548.58
	11/16/16		62.12	63.68	1.56	3,548.25
	5/22/17		61.80	62.90	1.10	3548.68
	11/13/17		62.65	64.41	1.76	3,547.67
	6/1/18		60.60	61.25	0.65	3,549.98
	11/6/18		63.08	63.09	0.01	3,547.66
	6/24/19		61.27	62.18	0.91	3,549.25
	1/5/20		61.60	61.95	0.35	3,549.06
MW-2	3/10/09	3611.76	(a)	59.10	(a)	3,552.66
	10/8/09		(a)	60.39	(a)	3,551.37
	3/22/10		(a)	59.66	(a)	3,552.10
	4/17/11		(a)	59.77	(a)	3,551.99
	12/22/11		(a)	59.79	(a)	3,551.97
	4/17/12		(a)	60.30	(a)	3,551.46
	10/18/12		(a)	61.30	(a)	3,550.46
	1/22/13		(a)	61.07	(a)	3,550.69
	4/15/13		(a)	61.30	(a)	3,550.46
	11/3/13	3612.62 (h)	(a)	60.77	(a)	3,551.85
	4/30/14		(a)	60.48	(a)	3,552.14
	11/19/14		(a)	60.60	(a)	3,552.02
	4/21/15		(a)	58.85	(a)	3,553.77
	11/3/15		(a)	59.45	(a)	3,553.17
	4/28/16		(a)	59.59	(a)	3,553.03
	11/16/16		(a)	59.97	(a)	3,552.65
	5/22/17		(a)	60.29	(a)	3,552.33
	11/13/17		(a)	60.83	(a)	3,551.79
	6/1/18		(a)	dry	(a)	NA
	11/6/18		(a)	60.42	(a)	3,552.20
	6/24/19		(a)	59.78	(a)	3,552.84
	1/5/20		(a)	59.88	(a)	3,552.74
MW-3	3/10/09	3614.87	(a)	66.23	(a)	3,548.64
	10/8/09		(a)	66.77	(a)	3,548.10
	3/22/10		(a)	66.37	(a)	3,548.50
	4/17/11		(a)	66.39	(a)	3,548.48
	12/22/11		(a)	66.86	(a)	3,548.01
	4/17/12		(a)	66.67	(a)	3,548.20
	10/18/12		(a)	67.28	(a)	3,547.59
	1/22/13		(a)	67.22	(a)	3,547.65
	4/15/13		(a)	67.11	(a)	3,547.76

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/13	3615.75 (h)	(a)	67.47	(a)	3,548.28
	4/30/14		(a)	67.31	(a)	3,548.44
	11/19/14		(a)	67.74	(a)	3,548.01
	4/21/15		(a)	67.52	(a)	3,548.23
	11/3/15		(a)	67.61	(a)	3,548.14
	4/29/16		(a)	67.42	(a)	3,548.33
	11/16/16		(a)	67.95	(a)	3,547.80
	5/22/17		(a)	67.55	(a)	3,548.20
	11/13/17		(a)	68.20	(a)	3,547.55
	6/1/18		(a)	67.85	(a)	3,547.90
	11/6/18		(a)	68.05	(a)	3,547.70
	6/24/19		(a)	67.45	(a)	3,548.30
	1/5/20		(a)	67.55	(a)	3,548.20
MW-7	3/10/09	3599.20	(a)	58.24	(a)	3,540.96
	10/8/09		(a)	62.12	(a)	3,537.08
	3/22/10		(a)	58.68	(a)	3,540.52
	4/17/11		(a)	59.42	(a)	3,539.78
	12/22/11		(a)	63.09	(a)	3,536.11
	4/17/12		(a)	62.30	(a)	3,536.90
	10/18/12		(a)	66.14	(a)	3,533.06
	1/22/13		(a)	64.40	(a)	3,534.80
	4/15/13		(a)	63.71	(a)	3,535.49
	11/3/13	3599.96 (h)	(a)	66.07	(a)	3,533.89
	4/30/14		(a)	64.30	(a)	3,535.66
	11/19/14		(a)	64.02	(a)	3,535.94
	4/20/15		(a)	61.04	(a)	3,538.92
	11/3/15		(a)	63.24	(a)	3,536.72
	4/27/16		(a)	61.15	(a)	3,538.81
	11/16/16		(a)	63.8	(a)	3,536.16
	5/22/17		(a)	62.30	(a)	3,537.66
	11/13/17		(a)	64.46	(a)	3,535.50
	6/1/18		(a)	63.37	(a)	3,536.59
	11/6/18		(a)	65.55	(a)	3,534.41
	6/24/19		(a)	62.93	(a)	3,537.03
	1/6/20		(a)	65.10	(a)	3,534.86
MW-10	3/10/09	3617.85	(a)	68.49	(a)	3,549.36
	10/8/09		(a)	69.18	(a)	3,548.67
	3/22/10		(a)	68.85	(a)	3,549.00
	4/17/11		(a)	68.85	(a)	3,549.00
	12/22/11		(a)	69.32	(a)	3,548.53
	4/17/12		(a)	69.19	(a)	3,548.66
	10/18/12		(a)	69.78	(a)	3,548.07
	1/22/13		(a)	69.79	(a)	3,548.06
	4/15/13		(a)	69.70	(a)	3,548.15
	11/3/13	3618.81 (h)	(a)	70.04	(a)	3,548.77
	4/30/14		(a)	69.93	(a)	3,548.88
	11/19/14		(a)	70.23	(a)	3,548.58
	4/21/15		(a)	70.06	(a)	3,548.75
	11/3/15		(a)	70.07	(a)	3,548.74
	4/29/16		(a)	69.90	(a)	3,548.91
	11/16/16		(a)	70.43	(a)	3,548.38
	5/22/17		(a)	70.03	(a)	3,548.78
	11/13/17		(a)	70.62	(a)	3,548.19

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	6/1/18		(a)	70.35	(a)	3,548.46
	11/6/18		(a)	70.45	(a)	3,548.36
	6/24/19		(a)	69.85	(a)	3,548.96
	1/5/20		(a)	69.91	(a)	3,548.90
	2/13/20		(a)	69.87	(a)	3,548.94
MW-11	3/10/09	3613.31	(a)	64.30	(a)	3,549.01
	10/8/09		(a)	65.39	(a)	3,547.92
	3/22/10		(a)	64.69	(a)	3,548.62
	4/17/11		(a)	64.55	(a)	3,548.76
	12/22/11		(a)	65.36	(a)	3,547.95
	4/17/12		(a)	64.97	(a)	3,548.34
	10/18/12		(a)	66.03	(a)	3,547.28
	1/22/13		(a)	65.69	(a)	3,547.62
	4/15/13		(a)	65.45	(a)	3,547.86
	11/3/13	3614.08 (h)	(a)	65.95	(a)	3,548.13
	4/30/14		(a)	65.71	(a)	3,548.37
	11/19/14		(a)	66.47	(a)	3,547.61
	4/21/15		(a)	65.70	(a)	3,548.38
	11/3/15		(a)	65.53	(a)	3,548.55
	4/28/16		(a)	65.50	(a)	3,548.58
	11/16/16		(a)	66.67	(a)	3,547.41
	5/22/17		(a)	65.55	(a)	3,548.53
	11/13/17		(a)	66.83	(a)	3,547.25
	6/1/18		(a)	66.07	(a)	3,548.01
	11/6/18		(a)	65.90	(a)	3,548.18
	6/24/19		(a)	65.18	(a)	3,548.90
	1/5/20		(a)	65.25	(a)	3,548.83
	2/13/20		(a)	65.10	(a)	3,548.98
MW-12	3/10/09	3606.38	56.16	56.57	0.41	3,550.12
	10/8/09		57.17	57.18	0.01	3,549.21
	1/26/10		(a)	56.95	(a)	3,549.43
	3/22/10		56.34	58.23	1.89	3,549.59
	4/17/11		56.00	57.47	1.47	3,550.03
	12/22/11		57.01	57.18	0.17	3,549.33
	4/17/12		56.75	59.72	2.97	3,548.92
	10/15/12		57.33	58.28	0.95	3,548.82
	1/22/13		54.93	57.30	2.37	3,550.88
	4/15/13		57.28	60.74	3.46	3,548.27
	11/3/13	3606.98 (h)	57.71	60.15	2.44	3,548.68
	4/30/14		57.57	62.68	5.11	3,548.18
	11/19/14		56.9	59.91	3.01	3,549.36
	4/21/15		56.51	56.74	0.23	3,550.41
	11/3/15		56.03	56.18	0.15	3,550.91
	4/27/16		56.21	56.27	0.06	3,550.76
	11/16/16		56.58	56.60	0.02	3,550.40
	5/22/17		(a)	56.68	(a)	3,550.30
	11/13/17		(a)	57.21	(a)	3,549.77
	6/1/18		(a)	56.85	(a)	3,550.13
	11/6/18		(a)	54.79	(a)	3,552.19
	6/24/19		(a)	55.38	(a)	3,551.60
	1/6/20		(a)	56.00	(a)	3,550.98
MW-13	3/10/09	3612.46	(a)	63.76	(a)	3,548.70
	10/8/09		(a)	64.35	(a)	3,548.11

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	1/26/10		(a)	64.05	(a)	3,548.41
	3/22/10		(a)	63.78	(a)	3,548.68
	4/17/11		(a)	63.65	(a)	3,548.81
	12/22/11		(a)	64.64	(a)	3,547.82
	4/17/12		(a)	64.31	(a)	3,548.15
	10/18/12		(a)	64.99	(a)	3,547.47
	1/22/13		(a)	64.70	(a)	3,547.76
	4/15/13		(a)	64.59	(a)	3,547.87
	11/3/13	3613.19 (h)	(a)	64.70	(a)	3,548.49
	4/30/14		(a)	64.91	(a)	3,548.28
	11/19/14		(a)	65.27	(a)	3,547.92
	4/21/15		(a)	64.93	(a)	3,548.26
	11/3/15		(a)	65.13	(a)	3,548.06
	4/29/16		(a)	65.03	(a)	3,548.16
	11/16/16		(a)	65.37	(a)	3,547.82
	5/22/17		(a)	65.10	(a)	3,548.09
	11/13/17		(a)	66.42	(a)	3,546.77
	6/1/18		(a)	65.37	(a)	3,547.82
	11/6/18		(a)	66.38	(a)	3,546.81
	6/24/19		(a)	65.18	(a)	3,548.01
	1/5/20		(a)	65.05	(a)	3,548.14
MW-14	3/10/09	3604.83	(a)	54.43	(a)	3,550.40
	10/8/09		(a)	54.57	(a)	3,550.26
	3/22/10		(a)	54.23	(a)	3,550.60
	4/17/11		(a)	54.72	(a)	3,550.11
	12/22/11		(a)	55.43	(a)	3,549.40
	4/17/12		(a)	h	(a)	NA
	10/15/12		(a)	55.52	(a)	3,549.31
	1/22/13		(a)	55.63	(a)	3,549.20
	4/15/13		(a)	55.61	(a)	3,549.22
	11/3/13	3605.55 (h)	(a)	55.89	(a)	3,549.66
	4/30/14		(a)	56.03	(a)	3,549.52
	11/19/14		(a)	56.08	(a)	3,549.47
	4/20/15		(a)	55.83	(a)	3,549.72
	11/3/15		(a)	55.89	(a)	3,549.66
	4/27/16		(a)	55.94	(a)	3,549.61
	11/16/16		(a)	56.14	(a)	3,549.41
	5/22/17		(a)	56.14	(a)	3,549.41
	11/13/17		(a)	56.67	(a)	3,548.88
	6/1/18		(a)	56.25	(a)	3,549.30
	11/6/18		(a)	56.49	(a)	3,549.06
	6/24/19		(a)	55.88	(a)	3,549.67
	1/6/20		(a)	55.95	(a)	3,549.60
MW-15	3/10/09	3610.43	(a)	59.30	(a)	3,551.13
	10/8/09		(a)	58.82	(a)	3,551.61
	3/22/10		(a)	58.43	(a)	3,552.00
	4/17/11		(a)	58.94	(a)	3,551.49
	12/22/11		(a)	59.26	(a)	3,551.17
	4/17/12		(a)	59.45	(a)	3,550.98
	10/15/12		(a)	59.65	(a)	3,550.78
	1/22/13		(a)	59.88	(a)	3,550.55
	4/15/13		(a)	59.99	(a)	3,550.44
	11/3/13	3611.24 (h)	(a)	60.10	(a)	3,551.14
	4/30/14		(a)	60.36	(a)	3,550.88
	11/19/14		(a)	60.38	(a)	3,550.86
	4/20/15		(a)	60.50	(a)	3,550.74

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/15		(a)	60.73	(a)	3,550.51
	4/27/16		(a)	60.81	(a)	3,550.43
	11/15/16		(a)	60.75	(a)	3,550.49
	5/22/17		(a)	60.67	(a)	3,550.57
	11/13/17		(a)	61.20	(a)	3,550.04
	5/31/18		(a)	61.11	(a)	3,550.13
	11/6/18		(a)	61.16	(a)	3,550.08
	6/24/19		(a)	61.14	(a)	3,550.10
	1/6/20		(a)	61.18	(a)	3,550.06
MW-16	3/10/09	3612.41	65.25	65.26	0.01	3,547.16
	10/8/09		65.91	65.92	0.01	3,546.50
	1/26/10		(a)	65.57	(a)	3,546.84
	3/22/10		(a)	65.19	sheen	3,547.22
	4/17/11		(a)	65.36	(a)	3,547.05
	12/22/11		(a)	65.99	sheen	3,546.42
	4/17/12		65.58	65.59	0.01	3,546.83
	10/15/12		(a)	66.55	(a)	3,545.86
	1/22/13		(a)	66.32	(a)	3,546.09
	4/15/13		(a)	66.17	(a)	3,546.24
	11/3/13	3613.16 (h)	(a)	66.48	(a)	3,546.68
	4/30/14		(a)	66.20	(a)	3,546.96
	11/19/14		66.8	66.91	0.11	3,546.33
	4/20/15		(a)	66.48	(a)	3,546.68
	11/3/15		67.29	67.46	0.17	3,545.83
	4/27/16		67.05	67.19	0.14	3,546.08
	11/16/16		68.11	68.15	0.04	3,545.04
	5/22/17		66.96	67.20	0.24	3,546.14
	7/14/17		68.72	69.11	0.39	3,544.35
	7/28/17		69.11	69.63	0.52	3,543.93
	8/7/17		69.07	69.61	0.54	3,543.96
	9/9/17		70.11	70.47	0.36	3,542.96
	11/13/17		68.44	68.55	0.11	3,544.69
	5/31/18		67	68.22	1.22	3,545.87
	11/6/18		67.7	69.10	1.40	3,545.12
	6/24/19		66.96	68.40	1.44	3,545.85
	1/6/20		68.85	68.90	0.05	3,544.30
MW-17	3/10/09	3608.43 (d)	(a)	61.20	(a)	3,547.23
	10/8/09		(a)	61.64	(a)	3,546.79
	3/22/10		(a)	60.95	(a)	3,547.48
	4/17/11		(a)	61.11	(a)	3,547.32
	12/22/11		(a)	61.42	(a)	3,547.01
	4/17/12		(a)	61.43	(a)	3,547.00
	10/15/12		(a)	61.95	(a)	3,546.48
	1/22/13		(a)	62.17	(a)	3,546.26
	4/15/13		(a)	61.97	(a)	3,546.46
	11/3/13	3609.20 (h)	(a)	62.23	(a)	3,546.97
	4/30/14		(a)	62.12	(a)	3,547.08
	11/19/14		(a)	62.40	(a)	3,546.80
	4/20/15		(a)	62.21	(a)	3,546.99
	11/3/15		(a)	62.91	(a)	3,546.29
	4/27/16		(a)	62.51	(a)	3,546.69
	11/15/16		(a)	63.37	(a)	3,545.83
	5/22/17		(a)	62.89	(a)	3,546.31

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/13/17		(a)	63.92	(a)	3,545.28
	5/31/18		(a)	63.11	(a)	3,546.09
	11/6/18		(a)	63.48	(a)	3,545.72
	6/23/19		(a)	63.05	(a)	3,546.15
	1/6/20		(a)	63.00	(a)	3,546.20
	2/13/20		(a)	63.23	(a)	3,545.97
MW-20	3/10/09	3600.65	(a)	52.08	(a)	3,548.57
	10/8/09		(a)	58.30	(a)	3,542.35
	10/9/09		(a)	55.57	(a)	3,545.08
	3/22/10		(a)	52.62	(a)	3,548.03
	4/17/11		(a)	52.43	(a)	3,548.22
	12/22/11		(a)	58.35	(a)	3,542.30
	4/17/12		(a)	53.50	(a)	3,547.15
	10/15/12		(a)	54.92	(a)	3,545.73
	1/22/13		(a)	54.13	(a)	3,546.52
	4/15/13		(a)	53.90	(a)	3,546.75
	11/3/13	3601.34 (h)	(a)	54.35	(a)	3,546.99
	4/30/14		(a)	54.28	(a)	3,547.06
	11/19/14		(a)	55.82	(a)	3,545.52
	4/21/15		(a)	53.24	(a)	3,548.10
	11/3/15		(a)	52.47	(a)	3,548.87
	4/28/16		(a)	53.13	(a)	3,548.21
	11/16/16		(a)	54.28	(a)	3,547.06
	5/22/17		(a)	53.43	(a)	3,547.91
	11/13/17		(a)	56.10	(a)	3,545.24
	6/1/18		(a)	54.03	(a)	3,547.31
	11/6/18		(a)	50.93	(a)	3,550.41
	6/24/19		(a)	52.00	(a)	3,549.34
	1/6/20		(a)	52.45	(a)	3,548.89
MW-21	3/10/09	3611.99 (d)	(a)	65.43	(a)	3,546.56
	10/8/09		(a)	66.30	(a)	3,545.69
	1/26/10		(a)	65.79	(a)	3,546.20
	3/22/10		(a)	65.31	(a)	3,546.68
	4/17/11		(a)	65.02	(a)	3,546.97
	12/22/11		(a)	65.28	(a)	3,546.71
	4/17/12		(a)	65.44	(a)	3,546.55
	10/15/12		(a)	65.57	(a)	3,546.42
	1/22/13		(a)	65.51	(a)	3,546.48
	4/15/13		(a)	65.54	(a)	3,546.45
	11/3/13	3612.71 (h)	(a)	66.08	(a)	3,546.63
	4/30/14		(a)	65.82	(a)	3,546.89
	11/19/14		(a)	66.17	(a)	3,546.54
	4/20/15		(a)	66.08	(a)	3,546.63
	11/3/15		(a)	66.15	(a)	3,546.56
	4/27/16		(a)	66.34	(a)	3,546.37
	11/15/16		(a)	66.43	(a)	3,546.28
	5/22/17		(a)	66.32	(a)	3,546.39
	7/14/17		(a)	67.38	(a)	3,545.33
	7/28/17		(a)	67.28	(a)	3,545.43
	8/7/17		(a)	67.17	(a)	3,545.54
	9/9/17		(a)	67.53	(a)	3,545.18
	11/13/17		(a)	66.65	(a)	3,546.06
	5/31/18		(a)	66.77	(a)	3,545.94

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/6/18		(a)	66.88	(a)	3,545.83
	6/23/19		(a)	66.6	(a)	3,546.11
	11/19/19		(a)	66.98	(a)	3,545.73
MW-22	3/10/09	3606.04	(a)	57.14	(a)	3,548.90
	10/8/09		(a)	58.25	(a)	3,547.79
	3/22/10		(a)	57.33	(a)	3,548.71
	4/17/11		(a)	57.38	(a)	3,548.66
	12/22/11		(a)	58.65	(a)	3,547.39
	4/17/12		(a)	57.88	(a)	3,548.16
	10/15/12		(a)	58.93	(a)	3,547.11
	1/22/13		(a)	58.60	(a)	3,547.44
	4/15/13		(a)	58.36	(a)	3,547.68
	11/3/13	3606.62 (h)	(a)	58.94	(a)	3,547.68
	4/30/14		(a)	58.49	(a)	3,548.13
	11/19/14		(a)	59.38	(a)	3,547.24
	4/21/15		(a)	58.56	(a)	3,548.06
	11/3/15		(a)	58.42	(a)	3,548.20
	4/28/16		(a)	58.38	(a)	3,548.24
	11/16/16		(a)	59.33	(a)	3,547.29
	5/22/17		(a)	58.47	(a)	3,548.15
	11/13/17		(a)	59.63	(a)	3,546.99
	6/1/18		(a)	58.96	(a)	3,547.66
	11/6/18		(a)	58.59	(a)	3,548.03
	6/24/19		(a)	57.75	(a)	3,548.87
	1/6/20		(a)	58.01	(a)	3,548.61
MW-24 D	3/10/09	3595.95 (c)	(a)	56.62	(a)	3,539.33
	10/8/09		(a)	61.13	(a)	3,534.82
	3/22/10		(a)	56.22	(a)	3,539.73
	4/17/11		(a)	58.73	(a)	3,537.22
	12/22/11		(a)	60.28	(a)	3,535.67
	4/17/12		(a)	61.39	(a)	3,534.56
	10/15/12		(a)	65.33	(a)	3,530.62
	1/22/13		(a)	61.26	(a)	3,534.69
	4/15/13		(a)	62.76	(a)	3,533.19
	11/3/13	3596.80 (h)	(a)	64.42	(a)	3,532.38
	4/30/14		(a)	62.91	(a)	3,533.89
	11/19/14		(a)	61.76	(a)	3,535.04
	4/21/15		(a)	59.61	(a)	3,537.19
	11/3/15		(a)	61.03	(a)	3,535.77
	4/28/16		(a)	59.44	(a)	3,537.36
	11/16/16		(a)	61.59	(a)	3,535.21
	5/22/17		(a)	61.03	(a)	3,535.77
	11/13/17		(a)	62.67	(a)	3,534.13
	6/1/18		(a)	62.9	(a)	3,533.90
	11/6/18		(a)	62.78	(a)	3,534.02
	6/24/19		(a)	61.91	(a)	3,534.89
	1/6/20		(a)	61.90	(a)	3,534.90
MW-26	3/10/09	3597.75 (c)	(a)	50.11	(a)	3,547.64
	10/8/09		(a)	52.35	(a)	3,545.40
	3/22/10		(a)	50.52	(a)	3,547.23
	4/17/11		(a)	50.45	(a)	3,547.30
	12/22/11		(a)	51.70	(a)	3,546.05
	4/17/12		(a)	51.24	(a)	3,546.51

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	10/15/12		(a)	52.55	(a)	3,545.20
	1/22/13		(a)	51.95	(a)	3,545.80
	4/15/13		(a)	51.70	(a)	3,546.05
	11/3/13	3598.43 (h)	(a)	52.22	(a)	3,546.21
	4/30/14		(a)	51.86	(a)	3,546.57
	11/19/14		(a)	52.21	(a)	3,546.22
	4/21/15		(a)	50.91	(a)	3,547.52
	11/3/15		(a)	50.61	(a)	3,547.82
	4/28/16		(a)	50.73	(a)	3,547.70
	11/16/16		(a)	51.62	(a)	3,546.81
	5/22/17		(a)	51.03	(a)	3,547.40
	11/13/17		(a)	52.42	(a)	3,546.01
	6/1/18		(a)	51.52	(a)	3,546.91
	11/6/18		(a)	49.89	(a)	3,548.54
	6/24/19		(a)	49.77	(a)	3,548.66
	1/6/20		(a)	50.10	(a)	3,548.33
MW-27	3/10/09	3615.11 (d)	67.85	68.18	0.33	3,547.18
	10/8/09		68.38	68.89	0.51	3,546.61
	1/26/10		68.48	68.88	0.40	3,546.53
	3/22/10		68.31	68.73	0.42	3,546.70
	4/17/11		68.10	68.26	0.16	3,546.97
	12/22/11		68.21	68.35	0.14	3,546.87
	4/17/12		67.38	67.52	0.14	3,547.70
	10/15/12		68.31	68.54	0.23	3,546.74
	1/22/13		68.45	68.67	0.22	3,546.61
	4/15/13		65.92	67.07	1.15	3,548.91
	5/16/13		68.47	69.77	1.30	3,546.33
	11/3/13	3615.76 (h)	(a)	68.19	(a)	3,547.57
	11/13/13		68.29	68.30	0.01	3,547.47
	4/30/14		68.61	68.63	0.02	3,547.15
	11/19/14		68.96	68.97	0.01	3,546.80
	4/20/15		68.96	68.97	0.01	3,546.80
	11/3/15		(a)	69.07	(a)	3,546.69
	4/27/16		(a)	69.18	(a)	3,546.58
	11/15/16		(a)	69.23	(a)	3,546.53
	5/22/17		(a)	69.19	(a)	3,546.57
	11/13/17		(a)	69.55	(a)	3,546.21
	5/30/18		(a)	69.55	(a)	3,546.21
	11/6/18		(a)	69.57	(a)	3,546.19
	6/23/19		(a)	69.43	(a)	3,546.33
	11/19/19		(a)	69.47	(a)	3,546.29
MW-28	3/10/09	3615.90 (d)	(a)	68.70	(a)	3,547.20
	10/8/09		(a)	68.94	(a)	3,546.96
	3/22/10		(a)	68.71	(a)	3,547.19
	4/17/11		(a)	68.95	(a)	3,546.95
	12/22/11		(a)	69.01	(a)	3,546.89
	4/17/12		(a)	69.20	(a)	3,546.70
	10/15/12		(a)	69.30	(a)	3,546.60
	1/22/13		(a)	69.48	(a)	3,546.42
	4/15/13		(a)	69.57	(a)	3,546.33
	11/3/13	3616.62 (h)	(a)	69.61	(a)	3,547.01
	4/30/14		(a)	69.78	(a)	3,546.84
	11/19/14		(a)	69.82	(a)	3,546.80

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/20/15		(a)	70.21	(a)	3,546.41
	11/3/15		(a)	70.40	(a)	3,546.22
	4/27/16		(a)	70.42	(a)	3,546.20
	11/15/16		(a)	70.47	(a)	3,546.15
	5/22/17		(a)	70.44	(a)	3,546.18
	11/13/17		(a)	70.45	(a)	3,546.17
	5/30/18		(a)	71.72	(a)	3,544.90
	11/6/18		(a)	70.81	(a)	3,545.81
	6/23/19		(a)	70.68	(a)	3,545.94
	11/19/19		(a)	70.53	(a)	3,546.09
MW-29	3/10/09	3613.54 (d)	(a)	67.86	(a)	3,545.68
	10/8/09		(a)	68.82	(a)	3,544.72
	3/22/10		(a)	68.04	(a)	3,545.50
	4/17/11		(a)	67.78	(a)	3,545.76
	12/22/11		(a)	68.15	(a)	3,545.39
	4/17/12		(a)	68.41	(a)	3,545.13
	10/15/12		(a)	68.10	(a)	3,545.44
	1/22/13		(a)	68.33	(a)	3,545.21
	4/15/13		(a)	68.34	(a)	3,545.20
	11/3/13	3614.22 (h)	(a)	69.47	(a)	3,544.75
	4/30/14		(a)	69.53	(a)	3,544.69
	11/19/14		(a)	69.67	(a)	3,544.55
	4/20/15		(a)	69.65	(a)	3,544.57
	11/3/15		(a)	69.90	(a)	3,544.32
	4/27/16		(a)	69.78	(a)	3,544.44
	11/15/16		(a)	70.13	(a)	3,544.09
	5/22/17		(a)	70.03	(a)	3,544.19
	11/13/17		(a)	70.45	(a)	3,543.77
	5/30/18		(a)	72.00	(a)	3,542.22
	11/6/18		(a)	67.53	(a)	3,546.69
	6/23/19		(a)	69.99	(a)	3,544.23
	11/19/19		(a)	70.00	(a)	3,544.22
MW-30	3/10/09	3612.63 (d)	(a)	65.83	(a)	3,546.80
	10/8/09		(a)	65.97	(a)	3,546.66
	3/22/10		(a)	65.81	(a)	3,546.82
	4/17/11		(a)	66.13	(a)	3,546.50
	12/22/11		(a)	66.20	(a)	3,546.43
	4/17/12		(a)	66.30	(a)	3,546.33
	10/15/12		(a)	66.48	(a)	3,546.15
	1/22/13		(a)	66.61	(a)	3,546.02
	4/15/13		(a)	66.57	(a)	3,546.06
	11/3/13	3613.33 (h)	(a)	66.84	(a)	3,546.49
	4/30/14		(a)	66.86	(a)	3,546.47
	11/19/14		(a)	66.97	(a)	3,546.36
	4/20/15		(a)	70.23	(a)	3,543.10
	11/3/15		(a)	67.22	(a)	3,546.11
	4/27/16		(a)	67.21	(a)	3,546.12
	11/15/16		(a)	67.32	(a)	3,546.01
	5/22/17		(a)	67.34	(a)	3,545.99
	11/13/17		(a)	67.59	(a)	3,545.74
	5/30/18		(a)	67.41	(a)	3,545.92
	11/6/18		(a)	67.50	(a)	3,545.83
	6/23/19		(a)	67.62	(a)	3,545.71
	11/19/19		(a)	67.59	(a)	3,545.74

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
MW-32	3/10/09	3608.73 (e)	(a)	65.01	(a)	3,543.72
	10/8/09		(a)	66.29	(a)	3,542.44
	3/22/10		(a)	65.44	(a)	3,543.29
	4/17/11		(a)	65.15	(a)	3,543.58
	12/22/11		(a)	65.42	(a)	3,543.31
	4/17/12		(a)	66.03	(a)	3,542.70
	10/15/12		(a)	65.59	(a)	3,543.14
	1/22/13		(a)	65.94	(a)	3,542.79
	4/15/13		(a)	66.33	(a)	3,542.40
	11/3/13	3609.49 (h)	(a)	66.95	(a)	3,542.54
	4/30/14		(a)	67.41	(a)	3,542.08
	11/19/14		(a)	67.34	(a)	3,542.15
	4/20/15		(a)	67.08	(a)	3,542.41
	11/3/15		(a)	67.51	(a)	3,541.98
	4/27/16		(a)	67.16	(a)	3,542.33
	11/15/16		(a)	67.46	(a)	3,542.03
	5/22/17		(a)	67.50	(a)	3,541.99
	11/13/17		(a)	67.77	(a)	3,541.72
	5/30/18		(a)	67.62	(a)	3,541.87
	11/6/18		(a)	67.87	(a)	3,541.62
	6/23/19		(a)	67.84	(a)	3,541.65
	11/19/19		(a)	67.76	(a)	3,541.73
MW-33	3/10/09	3610.55 (e)	(a)	63.81	(a)	3,546.74
	10/8/09		(a)	63.95	(a)	3,546.60
	3/22/10		(a)	63.94	(a)	3,546.61
	4/17/11		(a)	64.28	(a)	3,546.27
	12/22/11		(a)	64.42	(a)	3,546.13
	4/17/12		(a)	64.57	(a)	3,545.98
	10/15/12		(a)	64.63	(a)	3,545.92
	1/22/13		(a)	64.76	(a)	3,545.79
	4/15/13		(a)	64.82	(a)	3,545.73
	11/3/13	3611.37 (h)	(a)	64.86	(a)	3,546.51
	4/30/14		(a)	65.05	(a)	3,546.32
	11/19/14		(a)	65.08	(a)	3,546.29
	4/20/15		(a)	65.20	(a)	3,546.17
	11/3/15		(a)	65.38	(a)	3,545.99
	4/27/16		(a)	65.45	(a)	3,545.92
	11/15/16		(a)	65.55	(a)	3,545.82
	5/22/17		(a)	65.69	(a)	3,545.68
	11/13/17		(a)	65.88	(a)	3,545.49
	5/30/18		(a)	65.75	(a)	3,545.62
	11/6/18		(a)	65.86	(a)	3,545.51
	6/23/19		(a)	65.95	(a)	3,545.42
	11/19/19		(a)	65.95	(a)	3,545.42
MW-34	3/10/09	3605.05 (f)	(a)	61.57	(a)	3,543.48
	10/8/09		(a)	62.61	(a)	3,542.44
	3/22/10		(a)	61.93	(a)	3,543.12
	4/17/11		(a)	61.98	(a)	3,543.07
	12/22/11		(a)	62.49	(a)	3,542.56
	4/17/12		(a)	62.77	(a)	3,542.28
	10/15/12		(a)	62.80	(a)	3,542.25
	1/22/13		(a)	63.14	(a)	3,541.91
	4/15/13		(a)	63.25	(a)	3,541.80

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/13	3605.76 (h)	(a)	63.81	(a)	3,541.95
	4/30/14		(a)	63.99	(a)	3,541.77
	11/19/14		(a)	64.08	(a)	3,541.68
	4/20/15		(a)	63.82	(a)	3,541.94
	11/3/15		(a)	64.20	(a)	3,541.56
	4/27/16		(a)	63.73	(a)	3,542.03
	11/15/16		(a)	64.20	(a)	3,541.56
	5/22/17		(a)	64.09	(a)	3,541.67
	11/13/17		(a)	64.51	(a)	3,541.25
	5/30/18		(a)	64.35	(a)	3,541.41
	11/6/18		(a)	64.63	(a)	3,541.13
	6/23/19		(a)	64.51	(a)	3,541.25
	11/19/19		(a)	64.69	(a)	3,541.07
MW-35	3/10/09	3601.87 (f)	(a)	58.40	(a)	3,543.47
	10/8/09		(a)	59.42	(a)	3,542.45
	3/22/10		(a)	58.85	(a)	3,543.02
	4/17/11		(a)	58.89	(a)	3,542.98
	12/22/11		(a)	59.60	(a)	3,542.27
	4/17/12		(a)	59.76	(a)	3,542.11
	10/15/12		(a)	59.91	(a)	3,541.96
	1/22/13		(a)	60.14	(a)	3,541.73
	4/15/13		(a)	60.28	(a)	3,541.59
	11/3/13	3602.61 (h)	(a)	60.81	(a)	3,541.80
	4/30/14		(a)	61.17	(a)	3,541.44
	11/19/14		(a)	61.01	(a)	3,541.60
	4/20/15		(a)	60.80	(a)	3,541.81
	11/3/15		(a)	61.17	(a)	3,541.44
	4/27/16		(a)	60.71	(a)	3,541.90
	11/15/16		(a)	61.17	(a)	3,541.44
	5/22/17		(a)	61.05	(a)	3,541.56
	11/13/17		(a)	61.51	(a)	3,541.10
	5/30/18		(a)	61.72	(a)	3,540.89
	11/6/18		(a)	61.99	(a)	3,540.62
	6/23/19		(a)	61.63	(a)	3,540.98
	11/19/19		(a)	62.21	(a)	3,540.40
MW-37	3/10/09	3599.86 (g)	(a)	56.53	(a)	3,543.33
	10/8/09		(a)	57.46	(a)	3,542.40
	3/22/10		(a)	56.98	(a)	3,542.88
	4/17/11		(a)	57.06	(a)	3,542.80
	12/22/11		(a)	57.58	(a)	3,542.28
	4/17/12		(a)	57.88	(a)	3,541.98
	10/15/12		(a)	58.18	(a)	3,541.68
	1/22/13		(a)	58.43	(a)	3,541.43
	4/15/13		(a)	58.47	(a)	3,541.39
	11/3/13	3600.58 (h)	(a)	58.99	(a)	3,541.59
	11/13/13		(a)	58.96	(a)	3,541.62
	4/30/14		(a)	59.2	(a)	3,541.38
	11/19/14		(a)	59.20	(a)	3,541.38
	4/20/15		(a)	58.95	(a)	3,541.63
	11/3/15		(a)	59.31	(a)	3,541.27
	4/27/16		(a)	58.78	(a)	3,541.80
	11/15/16		(a)	59.31	(a)	3,541.27
	5/22/17		(a)	59.13	(a)	3,541.45

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/13/17		(a)	59.61	(a)	3,540.97
	5/30/18		(a)	59.43	(a)	3,541.15
	11/6/18		(a)	59.76	(a)	3,540.82

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	6/23/19		(a)	59.54	(a)	3,541.04
	11/19/19		(a)	59.85	(a)	3,540.73
MW-39	8/16/13	3597.38 (h)	(a)	51.64	(a)	3,545.74
	11/3/13		(a)	51.08	(a)	3,546.30
	4/30/14		(a)	50.74	(a)	3,546.64
	11/19/14		(a)	50.69	(a)	3,546.69
	4/21/15		(a)	49.97	(a)	3,547.41
	11/3/15		(a)	49.81	(a)	3,547.57
	4/28/16		(a)	49.96	(a)	3,547.42
	11/16/16		(a)	50.43	(a)	3,546.95
	5/22/17		(a)	49.99	(a)	3,547.39
	11/13/17		(a)	50.82	(a)	3,546.56
	6/1/18		(a)	50.40	(a)	3,546.98
	11/6/18		(a)	49.42	(a)	3,547.96
	6/24/19		(a)	48.97	(a)	3,548.41
	1/6/20		(a)	49.4	(a)	3,547.98
MW-40	8/16/13	3596.48 (h)	(a)	54.25	(a)	3,542.23
	11/3/13		(a)	54.21	(a)	3,542.27
	4/30/14		(a)	53.78	(a)	3,542.70
	11/19/14		(a)	54.23	(a)	3,542.25
	4/21/15		(a)	52.91	(a)	3,543.57
	11/3/15		(a)	53.21	(a)	3,543.27
	4/28/16		(a)	52.56	(a)	3,543.92
	11/16/16		(a)	53.55	(a)	3,542.93
	5/22/17		(a)	52.98	(a)	3,543.50
	11/13/17		(a)	54.11	(a)	3,542.37
	6/1/18		(a)	53.6	(a)	3,542.88
	11/6/18		(a)	54.24	(a)	3,542.24
	6/24/19		(a)	53.20	(a)	3,543.28
	1/6/20		(a)	54.30	(a)	3,542.18
MW-41	8/16/13	3601.73 (h)	(a)	56.57	(a)	3,545.16
	11/3/13		(a)	56.63	(a)	3,545.10
	4/30/14		(a)	56.76	(a)	3,544.97
	11/19/14		(a)	56.96	(a)	3,544.77
	4/21/15		(a)	56.58	(a)	3,545.15
	11/3/15		(a)	56.61	(a)	3,545.12
	4/28/16		(a)	56.36	(a)	3,545.37
	11/16/16		(a)	56.72	(a)	3,545.01
	5/22/17		(a)	56.58	(a)	3,545.15
	11/13/17		(a)	57.12	(a)	3,544.61
	6/1/18		(a)	56.90	(a)	3,544.83
	11/6/18		(a)	57.15	(a)	3,544.58
	6/24/19		(a)	56.85	(a)	3,544.88
	1/6/20		(a)	57.20	(a)	3,544.53
MW-42	8/16/13	3595.21 (h)	(a)	56.42	(a)	3,538.79
	11/3/13		(a)	56.28	(a)	3,538.93
	4/30/14		(a)	55.16	(a)	3,540.05
	11/19/14		(a)	55.25	(a)	3,539.96
	4/21/15		(a)	53.18	(a)	3,542.03
	11/3/15		(a)	54.27	(a)	3,540.94
	4/28/16		(a)	52.95	(a)	3,542.26
	11/16/16		(a)	54.71	(a)	3,540.50
	5/22/17		(a)	53.71	(a)	3,541.50

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/13/17		(a)	55.46	(a)	3,539.75

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	6/1/18		(a)	54.55	(a)	3,540.66
	11/6/18		(a)	55.83	(a)	3,539.38
	6/24/19		(a)	54.29	(a)	3,540.92
	1/6/20		(a)	55.58	(a)	3,539.63
MPE-7	3/10/09	NA	(a)	67.79	(a)	NA
	10/8/09		(a)	69.75	(a)	NA
	3/22/10		(a)	67.62	(a)	NA
	4/17/11		(a)	67.15	(a)	NA
	12/22/11		(a)	67.07	(a)	NA
	4/17/12		(a)	67.50	(a)	NA
	10/15/12		(a)	67.44	(a)	NA
	4/15/13		(a)	67.63	(a)	NA
	11/3/13	3614.16 (h)	(a)	67.93	(a)	3,546.23
	5/1/14		(a)	68.07	(a)	3,546.09
	11/20/14		(a)	68.21	(a)	3,545.95
	11/3/15		(a)	68.29	(a)	3,545.87
	4/27/16		(a)	68.36	(a)	3,545.80
	11/15/16		(a)	68.46	(a)	3,545.70
	2/2/17		(a)	68.15	(a)	3,546.01
	2/15/17		(a)	67.50	(a)	3,546.66
	2/25/17		(a)	65.67	(a)	3,548.49
	3/20/17		(a)	66.15	(a)	3,548.01
	5/22/17		(a)	68.53	(a)	3,545.63
	11/13/17		(a)	68.87	(a)	3,545.29
	5/30/18		(a)	68.96	(a)	3,545.20
	11/6/18		(a)	69.06	(a)	3,545.10
	6/23/19		(a)	68.53	(a)	3,545.63
	11/18/19		(a)	68.40	(a)	3,545.76
MPE-8	3/10/09	NA	(a)	65.06	(a)	NA
	10/8/09		(a)	65.79	(a)	NA
	3/22/10		(a)	65.53	(a)	NA
	4/17/11		(a)	65.30	(a)	NA
	12/22/11		(a)	65.58	(a)	NA
	4/17/12		(a)	65.71	(a)	NA
	10/15/12		(a)	65.62	(a)	NA
	4/15/13		(a)	65.41	(a)	NA
	11/3/13	3612.35 (h)	(a)	66.55	(a)	3,545.80
	5/1/14		(a)	66.47	(a)	3,545.88
	11/20/14		(a)	66.76	(a)	3,545.59
	11/3/15		(a)	66.89	(a)	3,545.46
	4/27/16		(a)	66.65	(a)	3,545.70
	11/15/16		(a)	67.28	(a)	3,545.07
	2/2/17		(a)	66.61	(a)	3,545.74
	2/15/17		(a)	64.57	(a)	3,547.78
	2/25/17		(a)	63.55	(a)	3,548.80
	3/20/17		(a)	64.15	(a)	3,548.20
	5/22/17		(a)	66.87	(a)	3,545.48
	11/13/17		(a)	67.78	(a)	3,544.57
	5/30/18		(a)	67.35	(a)	3,545.00
	11/6/18		(a)	67.70	(a)	3,544.65
	7/24/19		(a)	66.30	(a)	3,546.05

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/19/19		(a)	67.10	(a)	3,545.25
MPE-9	3/10/09	NA	(a)	67.24	(a)	NA
	10/8/09		(a)	67.79	(a)	NA
	1/26/10		67.92	67.93	0.01	NA
	3/22/10		(a)	67.82	(a)	NA
	4/17/11		(a)	67.49	(a)	NA
	12/22/11		(a)	67.61	(a)	NA
	4/17/12		(a)	67.87	(a)	NA
	10/15/12		(a)	67.70	(a)	NA
	4/15/13		(a)	67.92	(a)	NA
	11/3/13	3615.40 (h)	(a)	67.32	(a)	3,548.08
	5/1/14		(a)	68.11	(a)	3,547.29
	11/20/14		(a)	68.34	(a)	3,547.06
	11/3/15		(a)	68.48	(a)	3,546.92
	4/27/16		(a)	68.61	(a)	3,546.79
	11/15/16		(a)	68.61	(a)	3,546.79
	2/2/17		(a)	68.77	(a)	3,546.63
	2/15/17		(a)	66.90	(a)	3,548.50
	2/25/17		(a)	66.68	(a)	3,548.72
	3/20/17		(a)	66.95	(a)	3,548.45
	5/22/17		(a)	68.60	(a)	3,546.80
	11/13/17		(a)	68.95	(a)	3,546.45
	5/30/18		(a)	68.91	(a)	3,546.49
	11/6/18		(a)	69.02	(a)	3,546.38
	6/23/19		(a)	68.75	(a)	3,546.65
	11/19/19		(a)	68.84	(a)	3,546.56
MPE-10	3/10/09	NA	65.58	66.45	0.87	NA
	3/22/10		(a)	66.20	(a)	NA
	4/17/11		65.41	66.85	1.44	NA
	12/22/11		65.74	66.48	0.74	NA
	4/17/12		66.05	66.22	0.17	NA
	10/15/12		66.03	66.88	0.85	NA
	4/15/13		65.96	66.95	0.99	NA
	11/3/13	3613.85 (h)	65.71	67.08	1.37	3,547.81
	5/1/14		66.35	66.36	0.01	3,547.50
	11/20/14		66.64	67.39	0.75	3,547.03
	4/20/15		66.48	67.09	0.61	3,547.22
	11/3/15		66.64	67.21	0.57	3,547.07
	4/27/16		66.73	67.27	0.54	3,546.99
	11/15/16		(a)	66.76	(a)	3,547.09
	2/2/17		66.98	67.95	0.97	3,546.64
	2/15/17		64.48	66.20	1.72	3,548.96
	2/25/17		64.4	66.05	1.65	3,549.05
	3/20/17		64.5	66.65	2.15	3,548.83
	5/22/17		66.73	67.63	0.9	3,546.90
	11/13/17		67.04	68.05	1.01	3,546.57
	5/30/18		67.05	68.11	1.06	3,546.55
	11/6/18		67.1	68.45	1.35	3,546.43
	6/23/19		66.50	68.90	2.4	3,546.77
	11/19/19		66.91	66.92	0.01	3,546.94
MPE-11	3/10/09	NA	(a)	63.02	(a)	NA
	10/8/09		(a)	63.81	(a)	NA
	4/17/11		(a)	62.92	(a)	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	12/22/11		(a)	63.21	(a)	NA
	4/17/12		(a)	63.44	(a)	NA
	10/15/12		(a)	63.73	(a)	NA
	4/15/13		(a)	63.63	(a)	NA
	11/3/13	3610.37 (h)	(a)	64.11	(a)	3,546.26
	5/1/14		(a)	64.06	(a)	3,546.31
	11/20/14		(a)	64.35	(a)	3,546.02
	4/20/15		(a)	64.11	(a)	3,546.26
	11/3/15		(a)	64.65	(a)	3,545.72
	4/27/16		(a)	64.51	(a)	3,545.86
	11/15/16		(a)	65.17	(a)	3,545.20
	2/2/17		(a)	64.29	(a)	3,546.08
	2/15/17		(a)	61.40	(a)	3,548.97
	2/25/17		(a)	60.84	(a)	3,549.53
	3/20/17		(a)	61.45	(a)	3,548.92
	5/22/17		(a)	64.54	(a)	3,545.83
	11/13/17		(a)	65.51	(a)	3,544.86
	5/30/18		(a)	64.92	(a)	3,545.45
	11/6/18		(a)	65.34	(a)	3,545.03
	6/23/19		(a)	64.48	(a)	3,545.89
	11/19/19		(a)	64.89	(a)	3,545.48
MPE-12	3/10/09	NA	64.30	64.60	0.30	NA
	10/8/09		65.24	65.45	0.21	NA
	1/26/10		64.75	65.12	0.37	NA
	3/22/10		64.55	64.60	0.05	NA
	4/17/11		64.32	64.47	0.15	NA
	12/22/11		(a)	64.61	(a)	NA
	4/17/12		(a)	64.78	(a)	NA
	10/15/12		(a)	65.11	(a)	NA
	4/15/13		64.81	64.83	0.02	NA
	11/3/13	3612.51 (h)	(a)	64.81	(a)	3,547.70
	5/1/14		65.14	65.15	0.01	3,547.36
	11/20/14		67.07	67.27	0.20	3,545.24
	4/20/15		(a)	65.32	(a)	3,547.19
	11/3/15		(a)	65.41	(a)	3,547.10
	4/27/16		65.50	65.80	0.3	3,548.28
	11/15/16		65.69	66.38	0.69	3,547.99
	5/22/17		(a)	65.60	(a)	3,546.91
	7/14/17		63.72	63.90	0.18	3,548.75
	7/28/17		63.58	64.40	0.82	3,548.73
	8/7/17		(a)	65.59	(a)	3,546.92
	9/9/17		62.78	63.83	1.05	3,549.48
	11/13/17		65.83	66.85	1.02	3,546.44
	5/31/18		65.90	66.71	0.81	3,546.42
	11/6/18		66.00	67.15	1.15	3,546.23
	6/23/19		65.75	66.17	0.42	3,546.66
	1/6/20		65.71	66.38	0.67	3,546.64
MPE-13	3/10/09	NA	62.93	63.90	0.97	NA
	10/8/09		63.65	64.00	0.35	NA
	1/26/10		63.44	63.75	0.31	NA
	3/22/10		62.93	63.15	0.22	NA
	4/17/11		63.08	63.27	0.19	NA
	12/22/11		(a)	63.32	(a)	NA
	4/17/12		63.51	63.93	0.42	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	10/15/12		63.91	64.27	0.36	NA
	4/15/13		63.93	64.19	0.26	NA
	11/3/13	3610.91 (h)	64.07	64.21	0.14	3,546.81
	5/1/14		64.15	64.45	0.30	3,546.69
	11/20/14		64.55	64.66	0.11	3,546.33
	4/20/15		64.81	65.20	0.39	3,546.01
	11/3/15		(a)	64.95	(a)	3,545.96
	4/27/16		(a)	64.73	(a)	3,546.18
	8/28/16		(a)	NA	(a)	NA
	11/15/16		(a)	65.61	(a)	3,545.30
	5/22/17		(a)	64.83	(a)	3,546.08
	7/14/17		(a)	63.95	(a)	3,546.96
	7/28/17		(a)	64.25	(a)	3,546.66
	8/7/17		(a)	66.04	(a)	3,544.87
	9/9/17		(a)	64.57	(a)	3,546.34
	11/13/17		(a)	66.42	(a)	3,544.49
	5/31/18		(a)	65.81	(a)	3,545.10
	11/6/18		(a)	66.27	(a)	3,544.64
	6/23/19		(a)	65.95	(a)	3,544.96
	1/6/20		(a)	65.65	(a)	3,545.26
MPE-14	3/10/09	NA	63.70	63.83	0.13	NA
	10/8/09		(a)	64.27	(a)	NA
	1/26/10		(a)	64.08	(a)	NA
	3/22/10		(a)	63.57	(a)	NA
	4/17/11		(a)	63.70	(a)	NA
	12/22/11		(a)	64.05	(a)	NA
	4/17/12		(a)	64.12	(a)	NA
	10/15/12		(a)	64.75	(a)	NA
	4/15/13		64.40	64.94	0.54	NA
	11/3/13	3611.31 (h)	64.40	65.87	1.47	3,546.56
	5/1/14		64.54	65.49	0.95	3,546.54
	11/21/14		65.20	65.48	0.28	3,546.04
	4/20/15		64.21	64.26	0.05	3,547.09
	11/3/15		(a)	65.37	(a)	3,545.94
	4/27/16		65.34	65.65	0.31	3,545.90
	8/28/16		(a)	NA	(a)	NA
	11/15/16		66.35	66.38	0.03	3,544.95
	5/22/17		65.28	65.67	0.39	3,545.94
	7/14/17		(a)	71.40	(a)	3,539.91
	7/28/17		(a)	70.45	(a)	3,540.86
	8/7/17		(a)	71.75	(a)	3,539.56
	9/9/17		(a)	72.80	(a)	3,538.51
	11/13/17		(a)	66.45	(a)	3,544.86
	5/31/18		65.47	66.30	0.83	3,545.64
	11/6/18		66.02	66.50	0.48	3,545.17
	6/23/19		65.42	66.08	0.66	3,545.73
	1/6/20		65.48	66.30	0.82	3,545.63
MPE-15	3/10/09	NA	(a)	62.40	(a)	NA
	10/8/09		(a)	62.59	(a)	NA
	3/22/10		(a)	62.36	(a)	NA
	4/17/11		(a)	62.20	(a)	NA
	12/22/11		(a)	62.75	(a)	NA
	4/17/12		(a)	63.05	(a)	NA
	10/15/12		(a)	63.05	(a)	NA
	4/15/13		(a)	63.19	(a)	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/3/13	3612.40 (h)	(a)	63.45	(a)	3,548.95
	5/1/14		(a)	63.70	(a)	3,548.70
	11/21/14		(a)	63.73	(a)	3,548.67
	4/20/15		(a)	63.74	(a)	3,548.66
	11/3/15		(a)	63.96	(a)	3,548.44
	4/27/16		(a)	64.14	(a)	3,548.26
	11/15/16		(a)	64.26	(a)	3,548.14
	5/22/17		(a)	64.28	(a)	3,548.12
	7/14/17		(a)	62.12	(a)	3,550.28
	7/28/17		(a)	62.03	(a)	3,550.37
	8/7/17		(a)	64.17	(a)	3,548.23
	9/9/17		(a)	64.58	(a)	3,547.82
	11/13/17		(a)	64.83	(a)	3,547.57
	5/31/18		(a)	64.53	(a)	3,547.87
	11/6/18		(a)	64.77	(a)	3,547.63
	6/23/19		(a)	64.50	(a)	3,547.90
	1/6/20		(a)	64.58	(a)	3,547.82
MPE-16	3/10/09	NA	64.32	65.75	1.43	NA
	10/8/09		65.63	Tagged pump	NA	NA
	1/26/10		64.64	66.30	1.66	NA
	3/22/10		64.27	66.21	1.94	NA
	4/17/11		64.25	65.18	0.93	NA
	12/22/11		64.61	65.79	1.18	NA
	4/17/12		64.74	67.17	2.43	NA
	10/15/12		64.89	67.41	2.52	NA
	4/15/13		64.80	66.55	1.75	NA
	11/3/13	3613.14 (h)	64.65	67.06	2.41	3,547.91
	5/1/14		65.27	67.19	1.92	3,547.41
	11/20/14		65.96	67.84	1.88	3,546.73
	4/20/15		65.23	66.56	1.33	3,547.59
	11/3/15		(a)	66.59	(a)	3,546.55
	4/27/16		66.28	67.03	0.75	3,546.68
	8/28/16		67.24	67.66	0.42	3,545.80
	11/15/16		67.17	67.90	0.73	3,545.79
	5/22/17		66.21	67.10	0.89	3,546.72
	7/14/17		71.94	71.95	0.01	3,541.20
	7/28/17		70.60	70.61	0.01	3,542.54
	8/7/17		(a)	71.85	(a)	3,541.29
	9/9/17		(a)	71.92	(a)	3,541.22
	11/13/17		67.80	67.90	0.10	3,545.32
	5/31/18		67.85	69.46	1.61	3,544.90
	11/6/18		67.38	67.95	0.57	3,545.62
	6/23/19		67.84	68.85	1.01	3,545.06
	1/6/20		67.75	69.75	2.00	3,544.91
MPE-17	3/10/09	NA	64.80	65.07	0.27	NA
	10/8/09		65.48	65.55	0.07	NA
	1/26/10		65.19	65.22	0.03	NA
	3/22/10		(a)	64.77	(a)	(a)
	4/17/11		(a)	64.93	(a)	(a)
	12/22/11		(a)	65.37	(a)	(a)
	4/17/12		65.22	65.37	0.15	(a)
	10/15/12		65.95	66.81	0.86	(a)
	4/15/13		65.62	66.06	0.44	(a)
	11/3/13	3612.75 (h)	65.63	67.49	1.86	3,546.67
	5/1/14		65.75	66.45	0.70	3,546.83

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/21/14		66.15	66.64	0.49	3,546.48
	4/20/15		66.08	67.38	1.30	3,546.36
	11/3/15		(a)	66.88	(a)	3,545.87
	4/27/16		66.71	66.72	0.01	3,546.04
	8/28/16		(a)	67.81	(a)	3,544.94
	11/16/16		67.84	67.90	0.06	3,544.90
	5/22/17		66.60	66.95	0.35	3,546.07
	7/14/17		(a)	71.15	(a)	3,541.60
	7/28/17		(a)	71.11	(a)	3,541.64
	8/7/17		(a)	71.12	(a)	3,541.63
	9/9/17		(a)	71.15	(a)	3,541.60
	11/13/17		68.20	68.35	0.15	3,544.51
	5/31/18		67.15	67.30	0.15	3,545.56
	11/6/18		67.68	67.75	0.07	3,545.05
	6/24/19		66.90	67.10	0.20	3,545.80
	1/6/20		67.00	67.15	0.15	3,545.71
MPE-18	3/10/09	NA	(a)	61.65	(a)	NA
	10/8/09		(a)	61.93	(a)	NA
	3/22/10		(a)	61.44	(a)	NA
	4/17/11		(a)	61.70	(a)	NA
	12/22/11		(a)	62.19	(a)	NA
	4/17/12		(a)	62.39	(a)	NA
	10/15/12		(a)	62.78	(a)	NA
	4/15/13		(a)	62.64	(a)	NA
	11/3/13	3611.12 (h)	(a)	62.93	(a)	3,548.19
	5/1/14		(a)	63.07	(a)	3,548.05
	11/21/14		(a)	63.04	(a)	3,548.08
	4/20/15		(a)	62.97	(a)	3,548.15
	11/3/15		(a)	63.28	(a)	3,547.84
	4/27/16		(a)	63.45	(a)	3,547.67
	11/16/16		(a)	63.61	(a)	3,547.51
	5/22/17		(a)	63.43	(a)	3,547.69
	7/14/17		(a)	62.28	(a)	3,548.84
	7/28/17		(a)	62.43	(a)	3,548.69
	8/7/17		(a)	64.21	(a)	3,546.91
	9/9/17		(a)	64.53	(a)	3,546.59
	11/13/17		(a)	64.32	(a)	3,546.80
	5/30/18		(a)	63.58	(a)	3,547.54
	11/6/18		(a)	64.03	(a)	3,547.09
	6/24/19		(a)	63.42	(a)	3,547.70
	1/6/20		(a)	63.51	(a)	3,547.61
MPE-19	3/10/09	NA	(a)	65.02	(a)	NA
	10/8/09		(a)	65.54	(a)	NA
	3/22/10		(a)	65.14	(a)	NA
	4/17/11		(a)	65.11	(a)	NA
	12/22/11		(a)	65.54	(a)	NA
	4/17/12		(a)	65.53	(a)	NA
	10/15/12		(a)	65.91	(a)	NA
	4/15/13		(a)	66.03	(a)	NA
	11/3/13	3614.46 (h)	(a)	66.05	(a)	3,548.41
	5/1/14		(a)	66.08	(a)	3,548.38
	11/21/14		(a)	66.62	(a)	3,547.84
	4/20/15		(a)	66.16	(a)	3,548.30
	11/3/15		(a)	66.50	(a)	3,547.96
	4/27/16		(a)	66.31	(a)	3,548.15
	11/16/16		(a)	66.77	(a)	3,547.69

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	5/22/17		(a)	66.40	(a)	3,548.06
	7/14/17		(a)	63.95	(a)	3,550.51
	7/28/17		(a)	64.17	(a)	3,550.29
	8/7/17		(a)	62.26	(a)	3,552.20
	9/9/17		(a)	63.82	(a)	3,550.64
	11/13/17		(a)	67.37	(a)	3,547.09
	5/31/18		(a)	66.88	(a)	3,547.58
	11/6/18		(a)	67.04	(a)	3,547.42
	6/24/19		(a)	66.33	(a)	3,548.13
	1/6/20		(a)	66.40	(a)	3,548.06
MPE-20	3/10/09	NA	62.58	64.52	1.94	NA
	10/8/09		62.45	65.34	2.89	NA
	1/26/10		62.28	65.10	2.82	NA
	3/22/10		61.58	64.81	3.23	NA
	4/17/11		62.10	64.45	2.35	NA
	12/22/11		62.70	64.58	1.88	NA
	4/17/12		63.09	64.86	1.77	NA
	10/15/12		64.41	65.23	0.82	NA
	4/15/13		63.52	64.98	1.46	NA
	11/3/13	3611.40 (h)	63.37	64.28	0.91	3,547.81
	5/1/14		63.64	65.23	1.59	3,547.38
	11/21/14		65.59	66.47	0.88	3,545.60
	4/21/15		63.75	64.77	1.02	3,547.41
	11/3/15		64.81	66.00	1.19	3,546.30
	4/27/16		64.73	65.91	1.18	3,546.39
	8/28/16		66.07	66.09	0.02	3,545.33
	11/16/16		65.75	67.05	1.30	3,545.34
	5/22/17		64.57	65.60	1.03	3,546.58
	7/14/17		(a)	70.20	(a)	3,541.20
	7/28/17		(a)	71.99	(a)	3,539.41
	8/7/17		(a)	70.27	(a)	3,541.13
	9/9/17		(a)	70.35	(a)	3,541.05
	11/13/17		66.13	67.27	1.14	3,545.00
	5/31/18		(a)	65.75	(a)	3,545.65
	6/24/19		(a)	69.23	(a)	3,546.72
	1/6/20		64.38	64.50	0.12	3,542.17
MPE-21	3/10/09	NA	(a)	56.57	(a)	NA
	10/8/09		(a)	57.13	(a)	NA
	1/26/10		(a)	57.71	(a)	NA
	3/22/10		(a)	57.68	(a)	NA
	4/17/11		(a)	57.30	(a)	NA
	12/22/11		(a)	57.82	(a)	NA
	4/17/12		58.20	58.31	0.11	NA
	10/15/12		58.02	58.07	0.05	NA
	4/15/13		57.73	59.11	1.38	NA
	11/3/13	3607.52 (h)	56.94	57.82	0.88	3,550.37
	5/1/14		58.32	58.75	0.43	3,549.10
	11/21/14		58.71	59.97	1.26	3,548.51
	4/21/15		56.73	57.95	1.22	3,550.50
	11/3/15		(a)	59.13	(a)	3,548.39
	4/27/16		(a)	59.50	(a)	3,548.02
	8/28/16		(a)	59.24	(a)	3,548.28
	11/16/16		(a)	59.38	(a)	3,548.14
	5/22/17		(a)	59.45	(a)	3,548.07
	7/14/17		(a)	65.99	(a)	3,541.53

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	7/28/17		(a)	65.95	(a)	3,541.57
	8/7/17		(a)	66.08	(a)	3,541.44
	9/9/17		(a)	66.95	(a)	3,540.57
	11/13/17		(a)	60.90	(a)	3,546.62
	5/30/18		(a)	59.60	(a)	3,547.92
	11/6/18		(a)	60.08	(a)	3,547.44
	6/24/19		(a)	60.95	(a)	3,546.57
	1/6/20		(a)	66.90	(a)	3,540.62
MPE-22	3/10/09	NA	(a)	67.17	(a)	NA
	10/8/09		(a)	67.68	(a)	NA
	1/26/10		(a)	67.33	(a)	NA
	3/22/10		(a)	66.99	(a)	NA
	4/17/11		(a)	67.25	(a)	NA
	12/22/11		(a)	67.61	(a)	NA
	4/17/12		(a)	67.44	(a)	NA
	10/18/12		(a)	68.20	(a)	NA
	4/15/13		(a)	67.87	(a)	NA
	11/3/13	3616.80 (h)	(a)	68.28	(a)	3,548.52
	5/1/14		(a)	68.12	(a)	3,548.68
	11/21/14		(a)	68.59	(a)	3,548.21
	4/21/15		(a)	68.23	(a)	3,548.57
	11/3/15		(a)	68.24	(a)	3,548.56
	4/29/16		(a)	68.14	(a)	3,548.66
	11/16/16		(a)	69.13	(a)	3,547.67
	5/22/17		(a)	68.50	(a)	3,548.30
	11/6/17		(a)	68.68	(a)	3,548.12
	11/13/17		(a)	68.78	(a)	3,548.02
	6/1/18		(a)	68.42	(a)	3,548.38
	11/6/18		(a)	68.80	(a)	3,548.00
	6/24/19		(a)	68.16	(a)	3,548.64
	1/5/20		(a)	68.19	(a)	3,548.61
MPE-23	3/10/09	NA	62.85	64.00	1.15	NA
	10/8/09		62.58	64.90	2.32	NA
	1/26/10		62.84	63.98	1.14	NA
	3/22/10		61.94	62.58	0.64	NA
	4/17/11		62.31	62.78	0.47	NA
	12/22/11		62.45	64.70	2.25	NA
	4/17/12		62.57	64.58	2.01	NA
	10/18/12		63.35	65.36	2.01	NA
	4/15/13		62.78	65.30	2.52	NA
	11/3/13	3612.44 (h)	63.45	65.52	2.07	3,548.49
	5/1/14		63.41	64.65	1.24	3,548.73
	11/21/14		63.97	65.57	1.6	3,548.09
	4/21/15		63.29	65.43	2.14	3,548.64
	11/3/15		(a)	64.07	(a)	3,548.37
	4/29/16		63.97	64.00	0.03	3,548.46
	8/28/16		63.74	66.05	2.31	3,548.15
	11/16/16		63.97	66.00	2.03	3,547.98
	5/22/17		63.62	65.03	1.41	3,548.48
	11/6/17		(a)	72.45	(a)	3,539.99
	11/13/17		(a)	72.45	(a)	3,539.99
	6/1/18		64	64.75	0.75	3,547.69
	11/6/18		(a)	65.11	(a)	3,547.33
	6/24/19		63.55	63.56	0.01	3,548.88
	1/5/20		(a)	63.55	(a)	3,548.89

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-24	3/10/09	NA	57.55	58.93	1.38	3,547.33
	10/8/09		57.20	59.52	2.32	NA
	1/26/10		57.65	59.92	2.27	NA
	3/22/10		57.41	59.75	2.34	NA
	4/17/11		57.57	59.57	2.00	NA
	12/22/11		58.27	60.95	2.68	NA
	4/17/12		58.43	61.11	2.68	NA
	10/15/12		58.10	64.85	6.75	NA
	4/15/13		58.08	63.22	5.14	NA
	11/3/13	3608.45 (h)	58.33	62.96	4.63	3,549.01
	5/1/14		58.61	63.91	5.30	3,548.57
	11/21/14		58.58	65.93	7.35	3,548.11
	4/21/15		58.49	63.30	4.81	3,548.81
	11/3/15		60.03	60.10	0.07	3,548.40
	4/29/16		60.12	60.20	0.08	3,548.31
	11/16/16		59.46	63.22	3.76	3,548.09
	5/22/17		59.80	61.40	1.60	3,548.27
	11/6/17		(a)	71.71	(a)	3,536.74
	11/13/17		61.21	61.23	0.02	3,547.24
	5/31/18		(a)	59.71	(a)	3,548.74
	11/6/18		(a)	59.88	(a)	3,548.57
	6/24/19		(a)	59.27	(a)	3,549.18
	1/6/20		(a)	59.60	(a)	3,548.85
MPE-25	3/10/09	NA	(a)	67.13	(a)	NA
	10/8/09		(a)	67.79	(a)	NA
	1/26/10		(a)	67.40	(a)	NA
	3/22/10		(a)	67.07	(a)	NA
	4/17/11		(a)	67.32	(a)	NA
	12/22/11		(a)	67.79	(a)	NA
	4/17/12		(a)	67.50	(a)	NA
	10/18/12		(a)	68.32	(a)	NA
	4/15/13		(a)	68.03	(a)	NA
	11/3/13	3616.99 (h)	(a)	68.46	(a)	3,548.53
	5/1/14		(a)	68.20	(a)	3,548.79
	11/21/14		(a)	68.74	(a)	3,548.25
	4/21/15		(a)	68.35	(a)	3,548.64
	11/3/15		(a)	68.27	(a)	3,548.72
	4/29/16		(a)	68.20	(a)	3,548.79
	11/16/16		(a)	69.15	(a)	3,547.84
	5/22/17		(a)	68.27	(a)	3,548.72
	11/6/17		(a)	65.10	(a)	3,551.89
	11/13/17		(a)	69.10	(a)	3,547.89
	6/1/18		(a)	68.65	(a)	3,548.34
	11/6/18		(a)	68.82	(a)	3,548.17
	6/24/19		(a)	67.40	(a)	3,549.59
	1/5/20		(a)	68.05	(a)	3,548.94
MPE-26	3/10/09	NA	64.54	64.86	0.32	NA
	10/8/09		65.30	65.70	0.40	NA
	1/26/10		64.84	65.32	0.48	NA
	3/22/10		64.46	65.04	0.58	NA
	4/17/11		(a)	64.70	(a)	NA
	12/22/11		65.19	65.63	0.44	NA
	4/17/12		64.92	65.48	0.56	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	10/15/12		65.60	66.10	0.50	NA
	4/15/13		65.54	66.05	0.51	NA
	11/3/13	3614.30 (h)	65.78	65.82	0.04	3,548.51
	5/1/14		65.71	65.96	0.25	3,548.53
	11/21/14		66.28	66.63	0.35	3,547.94
	4/21/15		65.75	66.04	0.29	3,548.48
	11/3/15		65.66	66.02	0.36	3,548.55
	4/29/16		65.62	65.98	0.36	3,548.59
	11/16/16		66.63	67.05	0.42	3,547.57
	5/22/17		65.98	66.30	0.32	3,548.24
	11/6/17		(a)	62.57	(a)	3,551.73
	11/13/17		66.64	66.67	0.03	3,547.65
	6/1/18		66.1	66.12	0.02	3,548.20
	11/6/18		(a)	66.18	(a)	3,548.12
	6/24/19		(a)	66.49	(a)	3,547.81
	1/5/20		(a)	65.53	(a)	3,548.77
MPE-27	3/10/09	NA	62.65	64.96	2.31	NA
	10/8/09		63.05	69.05	6.00	NA
	1/26/10		(a)	62.92	(a)	NA
	3/22/10		62.60	64.38	1.78	NA
	4/17/11		62.54	tag top of pump	NA	NA
	12/22/11		(a)	62.81	(a)	NA
	4/17/12		63.34	63.63	0.29	NA
	10/15/12		64.62	65.38	0.76	NA
	4/15/13		(a)	tag top of pump	NA	NA
	11/3/13	3612.96 (h)	62.92	65.70	2.78	3,549.37
	5/1/14		63.75	67.31	3.56	3,548.36
	11/21/14		(a)	65.48	(a)	3,547.48
	4/21/15		63.85	65.70	1.85	3,548.67
	11/3/15		64.37	64.40	0.03	3,548.58
	4/29/16		64.35	64.37	0.02	3,548.61
	8/28/16		(a)	65.45	(a)	3,547.51
	11/16/16		(a)	65.41	(a)	3,547.55
	5/22/17		64.58	64.70	0.12	3,548.35
	11/6/17		(a)	75.10	(a)	3,537.86
	11/13/17		67.95	68.27	0.32	3,544.93
	6/1/18		64.4	65.21	0.81	3,547.75
	11/6/18		(a)	64.35	(a)	3,548.61
	6/24/19		(a)	62.95	(a)	3,550.01
	1/5/20		63.61	64.85	1.24	3,549.05
MPE-28	3/10/09	NA	55.01	59.20	4.19	NA
	10/8/09		56.72	60.21	3.49	NA
	1/26/10		56.12	59.78	3.66	NA
	3/22/10		55.50	59.20	3.70	NA
	4/17/11		(a)	56.78	(a)	NA
	12/22/11		(a)	58.61	(a)	NA
	4/17/12		(a)	57.45	(a)	NA
	10/15/12		(a)	58.30	(a)	NA
	4/15/13		57.85	57.88	0.03	NA
	11/3/13	3607.49 (h)	(a)	58.39	(a)	3,549.10
	5/1/14		58.32	58.40	0.08	3,554.62
	11/21/14		(a)	60.74	(a)	3,546.75
	4/21/15		(a)	57.72	(a)	3,549.77
	11/3/15		57.60	57.61	0.01	3,555.36
	4/28/16		57.38	57.44	0.06	3,555.57

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/16/16		NA	NA	NA	NA
	5/22/17		57.65	57.80	0.15	3555.27
	11/6/17		(a)	56.80	(a)	3550.69
	11/13/17		(a)	58.33	(a)	3,549.16
	6/1/18		(a)	57.74	(a)	3,549.75
	11/6/18		(a)	58.12	(a)	3,549.37
	6/24/19		(a)	56.68	(a)	3,550.81
	1/6/20		(a)	56.90	(a)	3,550.59
MPE-29	3/10/09	NA	(a)	67.35	(a)	NA
	10/8/09		(a)	68.38	(a)	NA
	3/22/10		(a)	67.58	(a)	NA
	4/17/11		(a)	67.73	(a)	NA
	12/22/11		(a)	68.38	(a)	NA
	4/17/12		(a)	67.98	(a)	NA
	10/18/12		(a)	68.95	(a)	NA
	4/15/13		(a)	68.44	(a)	NA
	11/3/13	3617.10 (h)	(a)	69.00	(a)	3,548.10
	5/1/14		(a)	68.68	(a)	3,548.42
	11/21/14		(a)	69.41	(a)	3,547.69
	4/21/15		(a)	68.75	(a)	3,548.35
	11/3/15		(a)	68.65	(a)	3,548.45
	4/29/16		(a)	68.57	(a)	3,548.53
	11/16/16		(a)	69.62	(a)	3,547.48
	5/22/17		(a)	68.65	(a)	3,548.45
	11/6/17		(a)	69.75	(a)	3,547.35
	11/13/17		(a)	69.77	(a)	3,547.33
	6/1/18		(a)	69.10	(a)	3,548.00
	11/6/18		(a)	69.12	(a)	3,547.98
	6/24/19		(a)	68.30	(a)	3,548.80
	1/5/20		(a)	68.31	(a)	3,548.79
MPE-30	3/10/09	NA	(a)	64.92	(a)	NA
	10/8/09		(a)	66.20	(a)	NA
	3/22/10		(a)	65.41	(a)	NA
	4/17/11		(a)	65.25	(a)	NA
	12/22/11		(a)	65.91	(a)	NA
	4/17/12		(a)	65.78	(a)	NA
	10/18/12		(a)	66.46	(a)	NA
	4/15/13		(a)	66.35	(a)	NA
	11/3/13	3616.01 (h)	(a)	66.93	(a)	3,549.08
	5/1/14		(a)	66.97	(a)	3,549.04
	11/21/14		(a)	67.36	(a)	3,548.65
	4/21/15		(a)	66.56	(a)	3,549.45
	11/3/15		(a)	66.26	(a)	3,549.75
	4/28/16		(a)	66.08	(a)	3,549.93
	11/16/16		(a)	67.38	(a)	3,548.63
	5/22/17		NA	NA	NA	NA
	11/13/17		(a)	67.95	(a)	3,548.06
	6/1/18		(a)	67.37	(a)	3,548.64
	11/6/18		(a)	67.32	(a)	3,548.69
	6/24/19		(a)	66.03	(a)	3,549.98
	1/5/20		(a)	66.08	(a)	3,549.93
MPE-31	3/10/09	NA	63.22	63.24	0.02	NA
	10/8/09		(a)	65.28	(a)	NA
	1/26/10		(a)	63.99	(a)	NA
	3/22/10		63.46	63.47	0.01	NA
	4/17/11		(a)	63.41	(a)	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	12/22/11		64.22	64.69	0.47	NA
	4/17/12		64.04	64.45	0.41	NA
	10/18/12		65.28	65.82	0.54	NA
	4/15/13		64.16	65.16	1.00	NA
	11/3/13	3613.18 (h)	64.64	65.11	0.47	3,548.43
	5/1/94		64.62	65.64	1.02	3,548.32
	11/21/14		65.79	66.39	0.60	3,547.25
	4/21/15		64.36	64.98	0.62	3,548.67
	11/3/15		64.14	64.68	0.54	3,548.91
	4/28/16		64.98	65.46	0.48	3,548.08
	8/28/16		(a)	65.89	(a)	3,547.29
	11/16/16		(a)	65.75	(a)	3,547.43
	5/22/17		(a)	64.81	(a)	3,548.37
	11/13/17		(a)	66.45	(a)	3,546.73
	6/1/18		(a)	65.02	(a)	3,548.16
	11/6/18		(a)	63.95	(a)	3,549.23
	6/24/19		(a)	63.98	(a)	3,549.20
	1/5/20		(a)	64.00	(a)	3,549.18
MPE-32	3/10/09	NA	57.01	59.81	2.80	NA
	10/8/09		(a)	62.21	(a)	NA
	1/26/10		57.90	61.23	3.33	NA
	3/22/10		(a)	57.30	(a)	NA
	4/17/11		(a)	57.32	(a)	NA
	12/22/11		(a)	56.62	(a)	NA
	4/17/12		58.55	61.08	2.53	NA
	10/15/12		NA	Tag top of pump	NA	NA
	4/15/13		59.16	59.35	0.19	NA
	11/3/13	3607.41 (h)	(a)	60.03	(a)	3,547.38
	5/1/14		59.65	60.53	0.88	3,547.55
	11/21/14		(a)	62.50	(a)	3,544.91
	4/21/15		58.27	61.3	3.03	3,548.41
	11/3/15		58.66	59.08	0.42	3,548.65
	4/28/16		59.11	59.65	0.54	3,548.17
	8/28/16		(a)	61.96	(a)	3,545.45
	11/16/16		61.22	61.39	0.17	3,546.15
	5/22/17		58.62	60.75	2.13	3,548.28
	11/13/17		(a)	62.93	(a)	3,544.48
	6/1/18		59.82	60.01	0.19	3,547.54
	11/6/18		(a)	57.15	(a)	3,550.26
	6/24/19		57.03	59.30	2.27	3,549.84
	1/6/20		57.70	59.20	1.50	3,549.35
MPE-33	3/10/09	NA	(a)	53.82	(a)	NA
	10/8/09		(a)	56.63	(a)	NA
	3/22/10		(a)	54.56	(a)	NA
	4/17/11		(a)	54.73	(a)	NA
	12/22/11		(a)	56.65	(a)	NA
	4/17/12		(a)	55.85	(a)	NA
	10/15/12		(a)	58.43	(a)	NA
	4/15/13		(a)	56.43	(a)	NA
	11/3/13	3603.22 (h)	(a)	57.14	(a)	3,546.08
	5/1/14		(a)	56.65	(a)	3,546.57
	11/21/14		(a)	58.46	(a)	3,544.76
	4/21/15		(a)	54.22	(a)	3,549.00
	11/3/15		(a)	54.31	(a)	3,548.91
	4/28/16		(a)	54.47	(a)	3,548.75

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/16/16		(a)	57.72	(a)	3,545.50
	5/22/17		(a)	55.02	(a)	3,548.20
	11/13/17		(a)	57.40	(a)	3,545.82
	6/1/18		(a)	56.00	(a)	3,547.22
	11/6/18		(a)	54.44	(a)	3,548.78
	6/24/19		(a)	52.67	(a)	3,550.55
	1/6/20		(a)	53.05	(a)	3,550.17
MPE-34	3/10/09	NA	(a)	65.24	(a)	NA
	10/8/09		(a)	65.78	(a)	NA
	3/22/10		(a)	65.56	(a)	NA
	4/17/11		(a)	65.40	(a)	NA
	12/22/11		(a)	65.76	(a)	NA
	4/17/12		(a)	65.79	(a)	NA
	10/18/12		(a)	66.15	(a)	NA
	4/15/13		(a)	66.20	(a)	NA
	11/3/13	3616.24 (h)	(a)	66.28	(a)	3,549.96
	5/1/14		(a)	66.23	(a)	3,550.01
	11/21/14		(a)	65.89	(a)	3,550.35
	4/21/15		(a)	65.57	(a)	3,550.67
	11/3/15		(a)	65.27	(a)	3,550.97
	4/28/16		(a)	65.10	(a)	3,551.14
	11/16/16		(a)	65.68	(a)	3,550.56
	5/22/17		(a)	65.38	(a)	3,550.86
	11/13/17		(a)	65.70	(a)	3,550.54
	6/1/18		(a)	65.47	(a)	3,550.77
	11/6/18		(a)	65.46	(a)	3,550.78
	6/24/19		(a)	64.75	(a)	3,551.49
	1/5/20		(a)	64.70	(a)	3,551.54
MPE-35	3/10/09	NA	(a)	59.29	(a)	NA
	10/8/09		(a)	59.96	(a)	NA
	3/22/10		(a)	59.36	(a)	NA
	4/17/11		(a)	59.16	(a)	NA
	12/22/11		(a)	59.67	(a)	NA
	4/17/12		(a)	59.80	(a)	NA
	10/15/12		(a)	60.00	(a)	NA
	4/15/13		(a)	60.08	(a)	NA
	11/3/13	3609.95 (h)	59.96	60.32	0.36	3,549.90
	11/13/13		60.04	60.35	0.31	3,549.84
	5/1/14		60.08	60.30	0.22	3,549.82
	11/21/14		59.51	60.04	0.53	3,550.31
	4/21/15		59.22	60.07	0.85	3,550.53
	11/3/15		58.45	59.91	1.46	3,551.15
	4/28/16		58.45	60.85	2.40	3,550.92
	11/16/16		58.58	61.38	2.80	3,550.70
	5/22/17		58.70	61.45	2.75	3,550.59
	11/13/17		59.19	62.05	2.86	3,550.07
	6/1/18		59.24	61.30	2.06	3,550.22
	11/6/18		58.75	60.50	1.75	3,550.78
	6/24/19		58.14	59.15	1.01	3,551.57
	1/6/20		58.50	60.22	1.72	3,551.04
MPE-36	3/10/09	NA	(a)	54.45	(a)	NA
	10/8/09		(a)	57.35	(a)	NA
	3/22/10		(a)	55.09	(a)	NA
	4/17/11		(a)	54.78	(a)	NA
	12/22/11		(a)	56.05	(a)	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/17/12		(a)	55.99	(a)	NA
	10/15/12		(a)	57.20	(a)	NA
	4/15/13		(a)	56.35	(a)	NA
	11/3/13	3604.60 (h)	(a)	56.58	(a)	3,548.02
	5/1/14		(a)	56.78	(a)	3,547.82
	11/21/14		(a)	53.13	(a)	3,551.47
	4/21/15		(a)	55.71	(a)	3,548.89
	11/3/15		(a)	50.73	(a)	3,553.87
	4/28/16		(a)	55.56	(a)	3,549.04
	11/16/16		(a)	56.90	(a)	3,547.70
	5/22/17		(a)	56.13	(a)	3,548.47
	11/13/17		(a)	58.35	(a)	3,546.25
	6/1/18		(a)	56.52	(a)	3,548.08
	11/6/18		(a)	40.74	(a)	3,563.86
	6/24/19		(a)	53.97	(a)	3,550.63
	1/6/20		(a)	54.62	(a)	3,549.98
MPE-37	3/10/09	NA	(a)	51.90	(a)	NA
	10/8/09		(a)	56.51	(a)	NA
	3/22/10		(a)	52.40	(a)	NA
	4/17/11		(a)	52.22	(a)	NA
	12/22/11		(a)	53.48	(a)	NA
	4/17/12		(a)	53.26	(a)	NA
	10/15/12		(a)	54.68	(a)	NA
	4/15/13		(a)	53.63	(a)	NA
	11/3/13	3601.20 (h)	(a)	54.05	(a)	3,547.15
	5/1/14		(a)	54.03	(a)	3,547.17
	11/21/14		(a)	56.17	(a)	3,545.03
	4/21/15		(a)	53.00	(a)	3,548.20
	11/3/15		(a)	52.02	(a)	3,549.18
	4/28/16		(a)	52.61	(a)	3,548.59
	11/16/16		(a)	54.17	(a)	3,547.03
	5/22/17		(a)	53.26	(a)	3,547.94
	11/13/17		(a)	55.83	(a)	3,545.37
	6/1/18		(a)	53.80	(a)	3,547.40
	11/6/18		(a)	49.91	(a)	3,551.29
	6/24/19		(a)	51.55	(a)	3,549.65
	1/6/20		(a)	52.22	(a)	3,548.98
MPE-38	8/16/13	3613.81 (h)	63.85	68.88	5.03	3,548.75
	11/3/13		65.89	68.62	2.73	3,547.26
	5/1/14		66.14	69.00	2.86	3,546.98
	11/21/14		67.31	69.85	2.54	3,545.89
	4/21/15		66.44	68.75	2.31	3,546.82
	11/3/15		67.25	69.96	2.71	3,545.91
	4/27/16		66.98	69.80	2.82	3,546.15
	8/28/16		67.93	70.05	2.12	3,545.37
	11/16/16		67.87	70.47	2.6	3,545.32
	5/22/17		67.05	70.05	3.0	3,546.04
	7/14/17		71.19	71.20	0.01	3,542.62
	7/28/17		(a)	71.22	(a)	3,542.59
	8/7/17		(a)	71.1	(a)	3,542.71
	9/9/17		71.03	71.05	0.02	3,542.78
	11/13/17		68.90	71.45	2.55	3,544.30
	5/31/18		67.62	72.40	4.78	3,545.04
	11/6/18		68.39	70.65	2.26	3,544.88
	6/24/19		67.58	69.54	1.96	3,545.76
	1/6/20		67.68	69.41	1.73	3,545.71

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
MPE-39	8/16/13	3608.26 (h)	(a)	60.45	(a)	3,547.81
	11/3/13		(a)	60.21	(a)	3,548.05
	5/1/14		60.35	60.48	0.13	3,547.78
	11/21/14		61	61.26	0.26	3,547.20
	4/21/15		59.99	62.39	2.40	3,547.69
	11/3/15		61.17	61.18	0.01	3,547.09
	4/27/16		61.20	61.21	0.01	3,547.06
	8/28/16		61.90	62.02	0.12	3,546.33
	11/16/16		61.77	61.85	0.08	3,546.47
	5/22/17		61.0	62.30	1.30	3546.95
	11/13/17		(a)	62.50	(a)	3,545.76
	5/31/18		61.00	61.02	0.02	3,547.26
	11/6/18		(a)	61.64	(a)	3,546.62
	6/24/19		60.78	60.85	0.07	3,547.46
	1/6/20		61.10	61.25	0.15	3,547.12
MPE-40	8/16/13	3610.84 (h)	61.52	61.95	0.43	3,549.22
	11/3/13		61.95	62.25	0.30	3,548.82
	5/1/14		61.80	62.15	0.35	3,548.96
	11/21/14		62.81	63.21	0.40	3,547.93
	4/21/15		61.35	64.74	3.39	3,548.68
	11/3/15		61.52	66.91	5.39	3,548.03
	4/29/16		61.48	66.68	5.20	3,548.11
	11/16/16		61.85	69.95	8.10	3,547.05
	5/22/17		61.87	67.35	5.48	3,547.65
	11/6/17		63.72	70.58	6.86	3,545.47
	11/13/17		63.72	70.58	6.86	3,545.47
	6/1/18		61.2	62.53	1.33	3,549.32
	11/6/18		62.59	63.14	0.55	3,548.12
	6/24/19		61.37	63.35	1.98	3,548.99
	1/5/20		61.65	64.45	2.80	3,548.52
MPE-41	8/16/13	3605.49 (h)	60.40	60.90	0.50	3,544.97
	11/3/13		56.19	62.74	6.55	3,547.73
	11/13/13		56.58	62.72	6.14	3,547.44
	5/1/14		56.35	62.85	6.50	3,547.58
	11/21/14		60.87	61.23	0.36	3,544.53
	4/21/15		56.03	61.1	5.07	3,548.24
	11/3/15		55.78	59.07	3.29	3,548.92
	4/28/16		56.51	60.44	3.93	3,548.04
	8/28/16		58.98	61.17	2.19	3,545.98
	11/16/16		58.21	61.02	2.81	3,546.61
	5/22/17		56.48	61.47	4.99	3,547.81
	11/6/17		(a)	71.05	(a)	3,534.44
	11/13/17		(a)	61.20	(a)	3,544.29
	6/1/18		57.8	59.18	1.38	3,546.31
	6/24/19	Not Gauged due to Pump Interference				
	1/7/20		56.5	57.75	1.25	3,548.69
SVE-1A	6/24/19	NA	(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
SVE-2A	6/24/19	NA	(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
SVE-3	6/24/19	NA	(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
SVE-22	3/10/09	NA	33.00	33.20	0.20	NA
	10/8/09		32.92	33.10	0.18	NA

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Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	1/26/10		33.05	33.05 (TD)	0.00	NA
	3/22/10		33.02	33.02 (TD)	0.00	NA
	4/17/11		32.90	33.00 (TD)	0.10	NA
	12/22/11		(a)	33.04	(a)	NA
	4/17/12		(a)	33.00 (TD)	(a)	NA
	10/18/12		(a)	33.00 (TD)	(a)	NA
	4/15/13		(a)	32.98	(a)	NA
	11/3/13	3616.76 (h)	(a)	33.08	(a)	3,583.68
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	dry	(a)	NA
	11/3/15		33.00	33.11	0.11	3,583.73
	4/29/16		32.94	33.09	0.15	3,583.78
	11/16/16		32.78	32.95	0.17	3,583.94
	5/22/17		33.00	33.10	0.10	3,583.74
	11/13/17		33.14	33.19	0.05	3,583.61
	6/1/18		33.02	33.10	0.08	3,583.72
	11/6/18		(a)	33.05	(a)	3,583.71
	6/24/19		32.74	32.75	0.01	3,584.02
	1/5/20		(a)	dry	(a)	NA
SVE-23	3/10/09	NA	32.78	36.75	3.97	NA
	10/8/09		33.01	33.79	0.78	NA
	1/26/10		33.12	36.98 (TD)	3.86	NA
	3/22/10		32.09	33.65	1.56	NA
	4/17/11		33.00	33.30	0.30	NA
	12/22/11		33.60	34.05	0.45	NA
	4/17/12		33.62	34.10	0.48	NA
	10/18/12		34.11	34.68	0.57	NA
	4/15/13		33.65	33.92	0.27	NA
	11/3/13	3612.45 (h)	33.73	36.52	2.79	3,578.05
	5/1/14		33.78	36.80	3.02	3,577.95
	11/21/14		32.15	32.84	0.69	3,580.13
	4/21/15		32.75	33.4	0.65	3,579.54
	11/3/15		32.74	33.07	0.33	3,579.63
	4/29/16		33.01	33.33	0.32	3,579.36
	11/16/16		33.37	33.82	0.45	3,578.97
	5/22/17		33.60	34.15	0.55	3,578.72
	11/13/17		32.64	33.28	0.64	3,579.66
	6/1/18		33.27	33.95	0.68	3,579.02
	11/6/18		32.55	35.70	3.15	3,579.14
	6/24/19		Not Gauged - Snake Hazard Exist in Vault			
	1/5/20		33.10	33.75	0.65	3,579.19
SVE-24	3/10/09	NA	(a)	dry	(a)	NA
	10/8/09		(a)	dry	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	dry	(a)	NA
	4/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	dry	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3608.97 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	28.61	(a)	3,580.36
	11/3/15		(a)	dry	(a)	NA
	4/27/16		(a)	dry	(a)	NA
	11/16/16		(a)	dry	(a)	NA
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	dry	(a)	NA
	5/31/18		(a)	dry	(a)	NA
	11/6/18		(a)	dry	(a)	NA
	6/24/19		(a	dry	(a)	NA
	1/6/20		(a)	dry	(a)	NA
SVE-25	3/10/09	NA	(a)	32.70	(a)	NA
	10/8/09		(a)	31.40	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	32.80	(a)	NA
	4/17/11		(a)	32.23	(a)	NA
	12/22/11		(a)	32.65	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	32.70	(a)	NA
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3617.02 (h)	(a)	32.72	(a)	3,584.30
	5/1/14		(a)	32.70	(a)	3,584.32
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	32.73	(a)	3,584.29
	11/3/15		(a)	dry	(a)	NA
	4/29/16		(a)	dry	(a)	NA
	11/16/16		(a)	dry	(a)	NA
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	31.88	(a)	3,585.14
	6/1/18		(a)	32.6	(a)	3,584.42
	11/6/18		(a)	31.75	(a)	3,585.27
	6/24/19		(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
SVE-26	3/10/09	NA	(a)	dry	(a)	NA
	10/8/09		(a)	dry	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	dry	(a)	NA
	4/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	dry	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3614.43 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	dry	(a)	NA
	4/21/15		(a)	32.6	(a)	3,581.83
	11/3/15		(a)	dry	(a)	NA
	4/29/16		(a)	dry	(a)	NA
	11/16/16		(a)	dry	(a)	NA
	5/22/17		(a)	dry	(a)	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	11/13/17		(a)	dry	(a)	NA
	6/1/18		(a)	dry	(a)	3,581.93
	11/6/18		(a)	dry	(a)	3,581.83
	6/24/19		(a)	dry	(a)	3,581.83
	1/5/20		(a)	dry	(a)	3,581.83
SVE-27	3/10/09	NA	(a)	32.92	(a)	NA
	10/8/09		(a)	33.63	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	33.70	(a)	NA
	4/17/11		(a)	33.70	(a)	NA
	12/22/11		(a)	33.83	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	33.82	(a)	NA
	11/3/13	3613.19 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	33.01	(a)	3,580.18
	4/21/15		(a)	33.58	(a)	3,579.61
	11/3/15		(a)	33.54	(a)	3,579.65
	4/29/16		(a)	33.82	(a)	3,579.37
	11/16/16		(a)	34.15	(a)	3,579.04
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	33.48	(a)	3,579.71
	6/1/18		(a)	34.00	(a)	3,579.19
	11/6/18		(a)	33.31	(a)	3,579.88
	6/24/19		Not Gauged - Snake Hazard Exist in Vault			
	1/5/20		(a)	dry	(a)	NA
SVE-28	3/10/09	NA	(a)	28.60	(a)	NA
	10/8/09		(a)	28.95	(a)	NA
	1/26/10		(a)	dry	(a)	NA
	3/22/10		(a)	29.07	(a)	NA
	4/17/11		(a)	29.17	(a)	NA
	12/22/11		(a)	29.65	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	33.58	(a)	NA
	11/3/13	3607.84 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	28.59	(a)	3,579.25
	4/21/15		(a)	28.86	(a)	3,578.98
	11/3/15		(a)	28.75	(a)	3,579.09
	4/27/16		(a)	28.97	(a)	3,578.87
	11/16/16		(a)	29.18	(a)	3,578.66
	5/22/17		(a)	29.44	(a)	3,578.40
	11/13/17		(a)	28.76	(a)	3,579.08
	6/1/18		(a)	29.15	(a)	3,578.69
	11/6/18		(a)	28.53	(a)	3,579.31
	6/24/19		(a)	28.97	(a)	3,578.87
	1/5/20		(a)	28.81	(a)	3,579.03
SVE-30	3/10/09	NA	(a)	39.32	(a)	NA
	10/8/09		(a)	39.29	(a)	NA
	3/22/10		(a)	40.28	(a)	NA
	4/17/11		(a)	40.11	(a)	NA

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	12/22/11		(a)	41.11	(a)	NA
	4/17/12		(a)	41.65	(a)	NA
	10/18/12		(a)	41.42	(a)	NA
	4/15/13		(a)	41.67	(a)	NA
	11/3/13	3616.00 (h)	(a)	43.02	(a)	3,572.98
	5/1/14		(a)	43.35	(a)	3,572.65
	11/21/14		(a)	43.30	(a)	3,572.70
	4/21/15		(a)	41.80	(a)	3,574.20
	11/3/15		(a)	41.60	(a)	3,574.40
	4/28/16		(a)	41.56	(a)	3,574.44
	11/16/16		(a)	41.23	(a)	3,574.77
	5/22/17		NA	NA	NA	NA
	11/13/17		(a)	42.00	(a)	3,574.00
	6/1/18		(a)	42.02	(a)	3,573.98
	11/6/18		(a)	42.46	(a)	3,573.54
	6/24/19		(a)	42.52	(a)	3,573.48
	1/5/20		(a)	42.45	(a)	3,573.55
SVE-31	3/10/09	NA	(a)	30.45	(a)	NA
	10/8/09		(a)	30.43	(a)	NA
	1/26/10		(a)	30.55	(a)	NA
	3/22/10		(a)	31.49	(a)	NA
	4/17/11		(a)	dry	(a)	NA
	12/22/11		(a)	28.50	(a)	NA
	4/17/12		(a)	dry	(a)	NA
	10/18/12		(a)	dry	(a)	NA
	4/15/13		(a)	dry	(a)	NA
	11/3/13	3612.67 (h)	(a)	dry	(a)	NA
	5/1/14		(a)	dry	(a)	NA
	11/21/14		(a)	30.27	(a)	3,582.40
	4/21/15		(a)	30.97	(a)	3,581.70
	11/3/15		(a)	30.200	(a)	3,582.47
	4/28/16		(a)	30.35	(a)	3,582.32
	11/16/16		(a)	30.73	(a)	3,581.94
	5/22/17		(a)	dry	(a)	NA
	11/13/17		(a)	30.48	(a)	3,582.19
	6/1/18		(a)	dry	(a)	NA
	11/6/18		(a)	30.24	(a)	3,582.43
	6/24/19		(a)	dry	(a)	NA
	1/5/20		(a)	dry	(a)	NA
RW-1	3/10/09	NA	(a)	33.17	(a)	NA
	10/8/09		(a)	33.48	(a)	NA
	3/22/10		(a)	33.62	(a)	NA
	4/17/11		(a)	33.80	(a)	NA
	12/22/11		(a)	34.26	(a)	NA
	4/17/12		(a)	34.57	(a)	NA
	10/18/12		(a)	35.16	(a)	NA
	4/15/13		(a)	35.77	(a)	NA
	11/3/13	3612.72 (h)	(a)	34.95	(a)	3,577.77
	4/30/14		(a)	35.48	(a)	3,577.24
	11/19/14		(a)	32.46	(a)	3,580.26
	4/21/15		(a)	33.08	(a)	3,579.64
	11/3/15		(a)	33.00	(a)	3,579.72

Table 3-2. Summary of Groundwater Surface Elevations
Transwestern Compressor Station No. 9 - Roswell, NM

Well ID	Date	TOC elevation (ft)	Depth to PSH (ft below TOC)	Depth to Groundwater (ft below TOC)	PSH (ft)	Groundwater Surface Elevation (ft)
	4/28/16		(a)	33.32	(a)	3,579.40
	11/16/16		(a)	33.70	(a)	3,579.02
	5/22/17		(a)	34.03	(a)	3,578.69
	11/13/17		(a)	32.96	(a)	3,579.76
	6/1/18		(a)	33.62	(a)	3,579.10
	11/6/18		(a)	32.82	(a)	3,579.90
	6/24/19		(a)	33.57	(a)	3,579.15
	1/5/20		(a)	33.38	(a)	3,579.34

Notes:
PSH - Phase separated hydrocarbon
ft - feet
TOC - Top of Casing
Corrections to ground water surface elevation for PSH is calculated assuming a specific gravity of 0.76
(NA) Information not available
(a) Not applicable since no measurable thickness of PSH is present
(b) Elevation based on survey by Wagener Engineering dated 5/6/98
(c) Elevation based on survey by Wagener Engineering dated 9/17/98
(d) Elevation based on survey by Wagener Engineering dated 11/29/00
(e) Elevation based on survey by Wagener Engineering dated 10/03/01
(f) Elevation based on survey by Cypress Engineering dated 03/14/03
(g) Elevation based on survey by Cypress Engineering dated 06/23/07
(h) Elevation based on survey by PR Patton & Associates dated 10/01/13
Historical data before 2009 is presented in previous reports
Historical data for wells that were plugged and abandoned is not shown.

Prepared by: JIM 02/12/20
Checked by: RAH 2/21/20

Table 3-3. Summary of Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-10	2/13/2020	14:20	1.25	18.73	6.22	3.39	-121.2	3.793
MW-11	2/13/2020	14:55	1.75	18.17	6.05	5.06	-80.3	3.912
MW-13	1/8/20	16:20	3.5	19.53	6.93	3.12	-138.2	3.724
MW-14	1/7/20	9:41	4.25	18.52	6.96	2.58	-188.7	3.589
MW-16	6/24/19	Not sampled due to PSH in well						
	1/6/20	Not sampled due to PSH in well						
MW-17	2/13/20	15:35	2.00	18.06	6.26	3.82	-140.0	4.129
MW-20	6/25/19	9:17	6.00	20.17	6.85	6.48	100.9	3.717
	1/6/20	15:21	5.75	17.55	6.92	5.20	97.5	3.757
MW-21	6/24/19	11:40	4.00	20.75	6.68	1.66	-110.8	3.168
	11/26/19	11:00	4.0	18.32	6.18	1.96	-128.3	3.248
MW-22	6/25/19	8:45	3.5	18.96	6.94	6.71	96.6	3.684
	1/6/20	14:31	3.5	18.35	7.32	5.86	61.9	3.914
MW-24D	1/7/20	10:35	55	18.81	7.1	0.51	60.2	3.225
MW-26	6/25/19	10:03	7.5	18.90	6.76	6.76	104.4	3.741
	1/6/20	16:21	7.25	18.24	6.89	5.46	72.1	3.627
MW-27	11/26/19	9:50	2.75	19.26	6.47	1.32	-308.4	3.737
MW-29	6/24/19	11:00	2.00	21.02	6.7	0.79	-142.4	3.209
	11/25/19	16:05	2.0	20.69	6.7	2.33	-116.1	3.412
MW-32	11/25/19	14:02	3.25	19.41	6.08	2.23	39.0	3.308
MW-34	6/24/19	9:37	5.50	19.92	6.79	0.47	-30.1	3.426
	11/20/19	15:00	5.50	19.15	6.08	0.59	-52.2	3.549
MW-35	11/21/19	12:11	7.00	18.85	6.21	5.77	60.6	4.046
MW-37	11/20/19	13:47	4.75	18.79	6.82	5.44	61.0	3.872
MW-39	6/26/19	11:16	10.25	19.03	6.67	4.64	101.3	3.715
	1/7/20	11:45	10.0	18.65	6.99	2.65	136	3.619
MW-40	6/25/19	15:37	8.25	19.62	6.73	4.99	84.0	3.718
	1/8/20	10:15	7.75	18.60	6.89	3.62	147.9	3.465
MW-41	6/25/19	16:25	6.5	20.02	6.74	7.14	83.2	3.635
	1/8/20	10:41	6.25	18.90	7.08	7.4	115.0	3.397
MW-42	6/25/19	10:56	10.50	19.05	6.78	4.12	105.7	3.738
	1/8/20	9:50	10.0	18.51	6.88	4.90	121.0	3.615
SVE-28	1/8/20	14:22	3.00	19.72	6.73	2.35	-177.8	2.881
SVE-30	1/8/20	15:40	1.00	19.88	5.04	0.63	-255.5	5.842
RW-1	6/26/19	12:11	16.00	21.91	6.83	0.65	-329.2	3.439
	1/8/20	15:22	28.0	20.38	6.92	0.82	-387.0	1.452

Notes

mg/L - milligrams per liter

°C - Degrees Celsius

Prepared by: JIM 2/12/20

mV - millivolts

Checked by: RAH 2/21/20

µs/cm - microsiemens per centimeter

Note: Field parameters are only shown for wells sampled

Table 3-4. Summary of Historical Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-13	11/17/16	13:05	2.0	22.49	7.20	2.08	-19.2	2.937
	11/16/17	12:10	2.5	21.54	7.15	2.43	-9.2	3.484
	11/12/18	14:30	2.0	18.71	7.03	3.34	-62.5	3.616
MW-14	11/16/16	11:10	4.0	19.82	7.10	1.27	-14.8	2.859
	11/15/17	11:39	3.75	19.26	7.01	4.86	-3.4	3.281
	11/8/18	14:25	4.0	19.10	6.88	3.87	-66.2	3.658
MW-20	11/16/16	13:21	4.75	18.82	7.21	3.81	-20.4	2.964
	5/24/17	14:02	5.25	19.79	6.95	3.54	-10.6	3.679
	11/15/17	13:42	4.0	18.89	7.01	7.88	-3.2	3.555
	6/1/18	9:20	5.0	19.14	7.02	7.25	-14.9	3.800
	11/9/18	10:35	6.50	17.61	6.90	3.20	73.2	3.757
MW-21	11/16/16	9:45	4.25	18.68	7.15	1.98	-17.0	2.528
	11/14/17	15:01	3.0	20.45	7.09	1.37	-6.7	2.988
	11/8/18	11:26	3.0	18.79	6.94	1.54	-139.1	3.135
MW-22	11/16/16	12:30	2.75	19.07	7.15	4.47	-17.2	2.840
	5/24/17	10:35	3.0	19.38	6.90	4.84	-8.5	3.538
	11/15/17	14:11	2.75	18.69	7.03	7.18	-4.1	3.439
	6/1/18	11:05	3.0	19.46	6.91	1.08	-8.8	3.686
	11/9/18	10:58	3.0	18.31	6.98	3.62	79.7	3.654
MW-24D	11/17/16	11:55	55	19.67	7.11	0.10	-15.5	2.818
	11/16/17	13:11	55	19.44	6.82	0.31	4.2	3.425
	11/12/18	13:20	50	17.67	7.07	2.78	-143.0	3.360
MW-26	11/16/16	13:57	6.50	18.73	6.94	3.07	-7.6	2.917
	5/24/17	11:09	6.75	19.03	6.78	0.38	-1.8	3.596
	11/15/17	12:40	6.25	18.87	7.02	5.98	-1.2	3.588
	6/1/18	10:07	6.50	19.22	6.84	4.46	-5.3	3.742
	11/9/18	9:47	7.25	18.35	6.92	3.46	60.9	3.740

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Table 3-4. Summary of Historical Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-27	11/15/16	14:49	4.50	19.69	6.83	1.62	-3.0	2.512
	5/23/17	13:53	3.0	--	--	--	--	--
	11/14/17	13:41	2.75	19.52	6.81	2.25	4.3	3.194
	5/31/18	8:05	2.75	19.69	6.57	3.25	8.8	3.473
	11/6/18	14:45	2.75	19.25	6.72	0.90	-319.5	3.424
MW-29	11/15/16	14:30	2.0	20.13	7.08	1.08	-14.1	2.319
	5/23/17	13:46	2.25	21.35	6.88	0.35	-7.1	2.857
	11/14/17	12:55	2.0	18.99	7.07	3.19	-6.2	2.854
	5/30/18	15:31	1.0	20.49	6.85	1.08	-5.8	3.065
	11/7/18	14:30	3.0	18.74	7.07	7.36	93.1	3.621
MW-32	11/15/16	13:11	3.25	19.79	7.13	1.11	-16.4	2.369
	5/23/17	12:58	3.25	20.27	6.88	1.19	-6.9	2.937
	11/14/17	12:30	3.25	19.75	7.10	2.00	-7.0	2.899
	5/30/18	14:51	3.25	20.87	6.95	2.21	-11.5	3.164
	11/6/18	13:56	3.0	20.14	6.93	2.57	13.7	3.131
MW-34	11/15/16	11:25	5.50	19.48	7.16	0.20	-17.7	2.798
	5/23/17	10:31	5.75	19.67	6.93	0.55	-9.6	3.447
	11/14/17	10:09	5.40	19.18	7.09	0.28	-6.4	3.312
	5/30/18	12:45	5.50	21.75	7.04	0.95	-15.7	3.504
	11/6/18	11:40	5.50	19.94	6.96	0.87	-32.9	3.435
MW-35	11/15/16	12:31	2.50	19.86	7.25	4.39	-21.7	3.037
	5/23/17	11:15	7.50	19.25	7.04	2.88	-15.5	3.754
	11/14/17	11:42	7.30	19.30	7.19	6.35	-10.4	3.672
	5/30/18	13:41	7.25	19.70	7.12	5.86	-19.7	3.924
	11/6/18	12:45	7.0	19.30	7.02	6.18	8.9	3.857
MW-37	11/15/16	10:29	5.0	18.90	7.18	2.13	-18.6	2.917
	5/23/17	9:42	5.0	19.09	6.95	3.44	-10.5	3.626
	11/14/17	9:23	5.0	18.82	7.06	3.30	-5.4	3.515
	11/6/18	10:50	5.0	19.13	6.97	4.52	79.3	3.693

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Table 3-4. Summary of Historical Field Parameters
Transwestern Compressor Station No. 9 - Roswell, NM

Monitoring Well	Sample Date	Sample Time	Purge Volume Gallons	Temperature °C	pH Standard Units	Dissolved Oxygen mg/L	ORP mV	Conductivity µs/cm
MW-39	11/17/16	10:54	10.0	18.83	7.07	5.33	-13.7	2.905
	6/16/17	11:15	12.0	19.04	6.79	5.11	-10.7	3.662
	11/16/17	11:05	9.25	18.76	7.01	5.22	-3.41	3.500
	6/4/18	13:45	10.0	19.11	6.92	3.64	-9.4	3.716
	11/9/18	15:55	10.0	18.60	6.91	2.79	121.0	3.695
MW-40	11/17/16	9:05	8.0	18.72	7.02	3.99	-11.7	2.864
	6/16/17	10:30	8.25	18.98	6.66	5.45	-4.1	3.636
	11/16/17	8:45	7.75	18.65	6.93	4.23	0.0	3.465
	6/4/18	10:45	8.0	19.06	7.03	6.58	-15.3	3.710
	11/9/18	14:40	7.75	18.63	6.89	2.65	114.8	3.670
MW-41	11/17/16	10:20	6.50	19.25	7.19	6.37	-16.2	2.805
	11/16/17	9:36	6.25	18.92	7.03	6.74	-4.1	3.396
	6/4/18	13:02	6.50	19.72	6.99	7.03	-13.2	3.621
	11/9/18	15:28	6.25	18.72	6.92	3.16	114.3	3.601
MW-42	11/17/16	8:30	10.25	18.46	7.02	4.07	-11.2	2.892
	6/16/17	10:35	10.0	18.62	6.55	5.11	1.2	3.672
	11/16/17	10:18	10.0	18.49	6.99	4.22	-2.6	3.514
	6/4/18	10:05	10.0	18.82	6.98	5.64	-12.8	3.745
	11/9/18	14:18	9.75	18.28	6.92	2.72	114.9	3.710
SVE-28	11/12/18	10:35	3.03	--	--	--	--	--
SVE-30	11/12/18	9:45	0.69	--	--	--	--	--
SVE-31	11/12/18	10:15	1.39	--	--	--	--	--
RW-1	11/12/18	15:05	18.0	--	--	--	--	--

Notes

mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
-- No field parameters gathered
°C - Degrees Celsius
Note: Field parameters are only shown for wells sampled

Prepared by: JIM 02/12/20
Checked by: RAH 2/21/20

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Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
MW-1B	05/24/17	**380**	< 20	< 20	**1,600**	NA	NA	NA
MW-10	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-11	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-12	05/24/17	**1,100**	**1,400**	150	**2,300**	NA	NA	NA
MW-13	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/24/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/16/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	01/08/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-14	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/15/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/08/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-16	10/21/12	**1,000**	< 50	270	**2,300**	NA	NA	NA
	04/17/13	**650**	< 50	210	**2,400**	NA	NA	NA
	11/18/13	**320**	50	210	**1,900**	NA	NA	NA
	05/04/14	**400**	< 10	310	**2,300**	NA	NA	NA
	12/02/14	**610**	16	180	**2,100**	NA	NA	NA
	04/24/15	**260**	11	230	**2,500**	NA	NA	NA
	11/05/15	**Not Sampled - PSH in well**						
	05/05/16*	**94**	< 10	120	**2,300**	NA	NA	NA
	11/16/16*	**90**	< 20	46	**1,700**	NA	NA	NA
	5/23/17*	**110**	< 10	66	**1,500**	NA	NA	NA
	11/15/17*	**87**	12	95	**1,500**	NA	NA	NA
	5/31/2018*	**320**	< 10	220	**1,700**	NA	NA	NA
	11/08/18	**Not Sampled - PSH in well**						
	06/24/19	**Not Sampled - PSH in well**						
	01/06/20	**Not Sampled - PSH in well**						
MW-17	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-20	03/12/09	< 1.0	< 1.0	< 1.0	< 1.5	14	**35**	< 1.0
	10/07/09	2.8	< 1.0	< 1.0	< 1.5	7.2	**13**	< 1.0
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	13	**28**	< 1.0
	09/24/10	< 1.0	< 1.0	< 1.0	< 1.5	4.6	**9.7**	< 1.0
	04/19/11	< 1.0	< 1.0	< 1.0	< 1.5	14	**22**	< 1.0
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	5.1	6.4	< 1.0
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	6.4	**8.6**	--
	10/19/12	< 1.0	< 1.0	< 1.0	< 1.5	2.9	**8.1**	--
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	3.2	4.5	< 1.0
	11/18/13	< 1.0	< 1.0	< 1.0	< 1.5	1.8	1.6	< 1.0
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	4.8	3.9	< 1.0

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Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	8.0	6.7	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	12.0	**8.0**	< 1.0
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	16.0	**8.6**	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	15.0	5.6	< 1.0
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	12.0	6.0	< 1.0
	05/24/17	< 1.0	< 1.0	< 1.0	< 1.5	9.5	4.6	< 1.0
	11/15/17	< 1.0	< 1.0	< 1.0	< 1.5	5.5	**7.3**	< 1.0
	06/01/18	< 1.0	< 1.0	< 1.0	< 1.5	6.4	4.7	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	5.6	**11**	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	7.8	3.4	< 1.0
	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	7.4	2.5	< 1.0
MW-21	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/25/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/08/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	06/24/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/26/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-22	03/12/09	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	10/07/09	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0
	09/23/10	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	1.6	< 1.0
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	--
	10/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	--
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.2	< 1.0
	11/18/13	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 2.0	< 2.0
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.5	< 1.0
	12/02/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.5	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.5	< 1.0
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.2	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	2.3	< 1.0
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.6	< 1.0
	05/24/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	3.0	< 1.0
	11/15/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.6	< 1.0
	06/01/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.7	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.8	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	2.0	< 1.0
	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
MW-23D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	1.6	8.1	2.8	10	NA	NA	NA
	12/14/12	< 1.0	1.4	< 1.0	< 2.0	NA	NA	NA
	01/21/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
MW-24D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	2.1	1.0	3.5	NA	NA	NA
	12/14/12	**9.6**	17	4.9	14	NA	NA	NA
	01/21/13	< 1.0	< 1.0	3.3	6.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/18/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/26/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/16/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	01/07/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-25D	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	09/26/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	01/03/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	1.2	< 1.0	2.2	NA	NA	NA
	12/14/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/21/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/17/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
MW-26	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	4.2	**43**	< 1.0
	10/07/09	< 1.0	< 1.0	< 1.0	< 1.5	5.5	**42**	< 1.0
	03/30/10	< 1.0	< 1.0	< 1.0	< 1.5	5.5	**60**	< 1.0
	09/24/10	< 1.0	< 1.0	< 1.0	< 1.5	6.2	**50**	< 1.0
	04/19/11	< 1.0	< 1.0	< 1.0	< 1.5	5.9	**60**	< 1.0
	01/03/12	< 1.0	< 1.0	< 1.0	< 1.5	7.8	**57**	< 1.0
	04/18/12	< 1.0	< 1.0	< 1.0	< 1.5	6.7	**53**	--
	10/19/12	< 1.0	< 1.0	< 1.0	< 1.5	5.6	**54**	--
	04/17/13	< 1.0	< 1.0	< 1.0	< 1.5	6.2	**53**	< 1.0
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	6.0	**45**	< 1.0
	05/04/14	< 1.0	< 1.0	< 1.0	< 3.0	10.0	**65**	< 1.0
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	7.6	**52**	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	6.9	**50**	< 1.0
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	11.0	**71**	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	11.0	**63**	< 1.0
	11/16/16	< 1.0	< 1.0	< 1.0	< 1.5	11.0	**58**	< 1.0
	05/24/17	< 1.0	< 1.0	< 1.0	< 1.5	9.1	**58**	< 1.0
	11/15/17	< 1.0	< 1.0	< 1.0	< 1.5	8.3	**44**	< 1.0
	06/01/18	< 1.0	< 1.0	< 1.0	< 1.5	8.4	**46**	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	9.3	**43**	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	7.8	**42**	< 1.0
	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	9.1	**45**	< 1.0

Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
MW-27	05/14/14	< 20.0	< 20.0	36	72	NA	NA	NA
	12/29/14	< 100	< 100	< 100	< 300	NA	NA	NA
	04/24/15*	< 10	< 10	< 10	< 30	NA	NA	NA
	11/05/15	< 10	< 10	19	54	NA	NA	NA
	05/02/16	< 10	< 10	< 10	< 30	NA	NA	NA
	11/15/16	< 5.0	< 5.0	< 5.0	< 7.5	NA	NA	NA
	05/23/17	< 5.0	< 5.0	< 5.0	< 7.5	NA	NA	NA
	11/14/17	**82**	< 25	< 25	91	NA	NA	NA
	05/31/18	< 2.0	< 2.0	< 2.0	< 3.0	NA	NA	NA
	11/06/18	< 2.0	6.1	< 2.0	< 4.0	NA	NA	NA
	06/29/19	< 2.0	<2.0	< 2.0	< 3.0	NA	NA	NA
	11/26/19	< 2.0	< 2.0	< 2.0	< 3.0	NA	NA	NA
MW-29	03/11/09	4.1	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	**8.4**	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	1.4	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	1.3	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	05/02/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	1.1	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/07/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	06/24/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/25/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-32	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	1.8	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/29/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA

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Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	11/25/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-34	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	**20**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	**210**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	**210**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/19/12	**140**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	**60**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	**7.2**	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	**5.0**	< 1.0	< 1.0	< 3.0	NA	NA	NA
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/27/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	06/24/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/20/19	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
MW-35	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	10/07/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	03/30/10	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	09/23/10	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/19/11	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	01/02/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/18/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	10/21/12	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	04/16/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/29/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/21/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-37	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	03/11/09	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/14/13	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/02/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/05/15	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA

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Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	04/27/16	< 1.0	< 1.0	< 1.0	< 3.0	NA	NA	NA
	11/15/16	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/23/17	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/14/17	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	05/30/18	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/06/18	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	NA
	11/20/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
MW-39	08/16/13	2.8	< 1.0	< 1.0	< 1.5	2.0	**19**	--
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	1.6	**15**	< 1.0
	12/01/14	< 1.0	< 1.0	< 1.0	< 3.0	3.0	**27**	
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	2.5	**22**	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	3.1	**27**	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	2.9	**24**	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	3.1	**22**	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	3.3	**29**	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	3.8	**31**	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	3.3	**23**	< 1.0
	11/06/18	< 1.0	< 1.0	< 1.0	< 1.5	3.8	**25**	< 1.0
	06/26/19	< 1.0	< 1.0	< 1.0	< 1.5	3.1	**18**	< 1.0
	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	3.7	**24**	< 1.0
MW-40	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	--
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	04/24/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
MW-41	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	<1.0
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/24/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.1	< 1.0
	05/19/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.4	< 1.0
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	1.4	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.3	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0
	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0
MW-42	08/16/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	--
	11/15/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/25/14	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	05/19/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/06/15	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0

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Table 3-5. Summary of Groundwater Analytical Results
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene	Vinyl Chloride
NMWQCC Standard:		5	1,000	700	620	25	7	2
USEPA MCL:		5	1,000	700	10,000	--	7	2
	05/03/16	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0
	11/17/16	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/16/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/16/17	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.1	< 1.0
	06/04/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/09/18	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.0	< 1.0
	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.4	< 1.0
MPE-13	05/14/14*	**5.2**	< 2.0	10	35	NA	NA	NA
	05/05/16	**770**	240	70	**740**	NA	NA	NA
	11/17/16	1.3	< 2.0	< 2.0	< 3.0	NA	NA	NA
	05/24/17	< 5.0	< 5.0	< 5.0	< 7.5	NA	NA	NA
MPE-27	11/16/16	**760**	650	60	460	NA	NA	NA
	11/16/17*	**3,900**	**7,400**	390	**3,400**	NA	NA	NA
	6/4/2018*	**4,400**	**9,400**	510	**4,100**	NA	NA	NA
MPE-31	05/14/14*	**130**	< 20.0	370	460	NA	NA	NA
	12/29/14	< 100	150	< 100	< 300	NA	NA	NA
	04/24/15*	**260**	46	200	440	NA	NA	NA
	11/06/15	**120**	15	230	340	NA	NA	NA
	05/05/16*	**140**	16	250	400	NA	NA	NA
	11/16/16	**7.8**	11	< 2.0	28	NA	NA	NA
MPE-39	12/29/14	**4,700**	**1,400**	240	**1,900**	NA	NA	NA
	04/24/15	**3,300**	**3,300**	430	**2,700**	NA	NA	NA
	11/06/15	**1,800**	**4,500**	280	**2,900**	NA	NA	NA
	05/05/16	**620**	570	70	**1,500**	NA	NA	NA
	11/17/16*	**160**	130	< 20	160	NA	NA	NA
	6/16/17*	**2,600**	**1,500**	120	**1,100**	NA	NA	NA
	6/4/2018*	**1,600**	**1,300**	90	**1,300**	NA	NA	NA
SVE-28	11/12/18	**14**	<1..0	<1.0	<1.5	NA	NA	NA
	06/26/19	1.5	<1.0	<1.0	<1.5	2.2	<1.0	<1.0
	01/08/20	1.5	<1.0	<1.0	<1.5	2.2	<1.0	<1.0
SVE-30	11/12/18	**15**	<5.0	41	<7.5	NA	NA	NA
	06/26/19	**10**	<5.0	24	<7.5	**30**	<5.0	<5.0
	01/08/20	**8.9**	<5.0	29	<7.5	**32**	<5.0	<5.0
SVE-31	11/12/18	<1	<1.0	<1.0	<1.5	NA	NA	NA
RW-1	11/12/18	**32**	<1.0	1.4	<1.5	NA	NA	NA
	06/26/19	**51**	<1.0	1.4	<1.5	12	<1.0	<1.0
	01/08/20	**26**	<1.0	1.5	<1.5	4.3	<1.0	<1.0

Notes:
Prepared by: JIM 2/12/20
Checked by: RAH 2/21/20

Bold - indicates that the analytical result exceeds the applicable regulatory limits.
* - Phase separated hydrocarbons (PSH) present in well. Sample collected below PSH.
-- Data not available.
[a] Analyte present in method blank
[b] Total Naphthalene = Naphthalene + 1-Methylnapthalene + 2-Methylnapthalene
Historical data before 2009 is presented in previous reports
Results reported in micrograms per liter (µg/L)
NA - Not analyzed; constituent is not part of the sampling plan
NMWQCC - New Mexico Water Quality Control Commission Standard
USEPA MCL - United States Environmental Protection Agency's Maximum Concentration Limit

Table 3-5a. Summary of Groundwater Analytical Results - Other Constituents Detected
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Chloroethane	Isopropyl benzene	n-Propylbenzene	1,2,4-Trichlorobenzene	Napthalene	cis-1,2-Dichloroethene	Acetone
NMWQCC Standard:		--	--	--	70	1.43*	70	--
USEPA MCL:		--	--	--	70	--	70	--
MW-42	06/25/19	<2.0	<1.0	<1.0	<1.0	<2.0	<1.0	5.3
	01/08/20	<3.0	<1.0	<1.0	<1.0	<2.0	<1.0	<10
SVE-30	06/26/19	11	<5.0	<5.0	5.6	<10	<5.0	<50
	01/08/20	14	7.7	6.4	<5.0	<10	<5.0	<50
RW-1	06/26/19	<2.0	<1.0	<1.0	<1.0	4.4	5.2	<1.0
	01/08/20	<2.0	<1.0	<1.0	<1.0	<2.0	1.0	<10

Notes:

Results only shown for other detected constituents in wells. All other constiutents for wells not shown are below laboratory detection limits.

-- data not available or established

Results reported in micrograms per liter (µg/L)

NMWQCC - New Mexico Water Quality Control Commission Standard

USEPA MCL - United States Environmental Protection Agency's Maximum Concentration Limit

* - Per Stipulated Order, Screening level for tap water listed in Table A-1 fo the Februrary 2012 NMED Risk Assessment Guidance for Site Investigation and Remediation as target cleanup if WQCC standard nor MCL has been established.

Prepared by: JIM 04/17/20

Checked by: SD 04/22/20

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Table 3-6. Summary of Well Completion Details
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
MW-1B	04/21/93	65.5	64.65	Flush Mount	2	55-65	53
MW-2	04/21/93	65	61.61	Flush Mount	2	55-65	53
MW-3	04/26/93	72.5	na	Flush Mount	2	60-70	58
MW-5	04/28/93	70	69.35	Flush Mount	2	60-70	58
RW-1	06/13/93	42.5	41.47	Flush Mount	4	36.8 - 41.7	34.75
MW-6	12/01/94	79	na	Flush Mount	2	59.9-74.9	57.1
MW-7	08/22/95	70.5	na	Flush Mount	2	50-70	48.1
MW-8	08/16/95	76.8	73.80	Flush Mount	2	59-74	57.2
MW-9	08/18/95	70	69.75	Flush Mount	2	50-70	47.9
MW-10	09/10/96	74.5	72.15	Flush Mount	2	57-72	55.3
MW-11	09/16/96	72	68.30	Flush Mount	2	54-69	51.5
MW-12	09/11/96	64	na	Flush Mount	2	44-64	42
MW-13	09/13/96	72	na	Flush Mount	2	57-72	55
MW-14	09/10/96	64.5	na	Flush Mount	2	49.5-64.5	48
MW-15	09/20/96	68.5	na	Flush Mount	2	38.5-68.5	37
MW-16	09/19/96	71.4	71.46	Flush Mount	2	46.4-71.4	45.5
MW-17	09/21/96	70	na	Flush Mount	2	53-68	50.9
MW-18	09/25/96	71	na	Flush Mount	2	54-69	51.6
MW-19	09/26/96	69.5	na	Flush Mount	2	54.5-69.5	51
MW-20	08/04/97	64	na	Flush Mount	2	46.8-61.8	43.9
MW-21	08/06/97	75	na	Flush Mount	2	54-74	51.7
MW-22	08/04/97	68	na	Flush Mount	2	50-65	49
MW-26	09/01/98	65	na	Flush Mount	2	43-63	41
MW-27	09/02/98	75	na	Flush Mount	2	55-75	53
MW-28	11/14/00	75	74.81	Flush Mount	2	60-75	58
MW-29	11/18/00	75	74.45	Flush Mount	2	60-75	58
MW-30	11/16/00	75	74.70	Flush Mount	2	60-75	58
MW-31	09/21/01	75	74.55	Flush Mount	2	60-75	58
MW-32	09/23/01	75	74.20	Flush Mount	2	60-75	58
MW-33	09/22/01	75	74.60	Flush Mount	2	60-75	58
MW-34	01/06/03	79	75.75	Flush Mount	2	49-79	46
MW-35	01/07/03	79	76.71	Flush Mount	2	49-79	46
MW-36	09/29/03	75	74.35	Flush Mount	2	55-75	53
MW-37	09/29/03	70	69.61	Flush Mount	2	50-70	48
MW-38	09/30/03	68	67.76	Flush Mount	2	48-68	46
MW-39	08/06/13	70	70.00	Flush Mount	2	50-70	48
MW-40	08/05/13	70	70.25	Flush Mount	2	50-70	48
MW-41	08/05/13	70	70.20	Flush Mount	2	50-70	48
MW-42	08/06/13	75	75.93	Flush Mount	2	55-75	51
MW-23D	07/29/97	194	na	Flush Mount	4	167-187	164
MW-24D	09/10/98	180	na	Flush Mount	4	146-176	143
MW-25D	09/09/98	150	na	Flush Mount	4	119-149	117
SVE-1A	09/21/96	30	29.65	Flush Mount	2	20-30	19
SVE-2A	09/20/96	30	29.83	Flush Mount	2	20-30	17.5
SVE-3	09/16/96	62.3	61.90	Flush Mount	2	32.0-62.3	29.5
SVE-22	11/07/02	35	33.20	Flush Mount	2	25-35	23
SVE-23	11/07/02	39	36.70	Flush Mount	2	25-35	22

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Table 3-6. Summary of Well Completion Details
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
SVE-24	11/13/02	30	28.85	Flush Mount	2	20-30	18
SVE-25	11/04/02	34	53.30	Flush Mount	2	24-34	21.6
SVE-26	11/05/02	35	32.45	Flush Mount	2	24-34	22
SVE-27	11/01/02	35	33.90	Flush Mount	2	20-35	18
SVE-28	10/29/02	35	36.00	Flush Mount	2	25-35	23
SVE-30	10/25/02	45	44.00	Flush Mount	2	20-45	18
SVE-31	10/28/02	35	33.95	Flush Mount	2	25-35	23
MPE-1	12/06/02	79	75.60	Flush Mount	4	54-74	49
MPE-2	12/24/02	79	71.75	Flush Mount	4	54-79	51
MPE-3	12/21/02	79	75.95	Flush Mount	4	54-79	51
MPE-4	12/19/12	79	78.30	Flush Mount	4	54-79	51
MPE-5	12/16/02	79	77.70	Flush Mount	4	59-79	56
MPE-6	12/17/02	79	75.00	Flush Mount	4	54-79	51
MPE-7	12/13/02	79	78.41	Flush Mount	4	54-74	51
MPE-8	12/14/02	79	77.55	Flush Mount	4	59-79	50
MPE-9	12/18/02	79	73.60	Flush Mount	4	54-74	51
MPE-10	12/09/02	79	75.30	Flush Mount	4	54-74	50
MPE-11	12/07/02	79	79.05	Flush Mount	4	54-74	50
MPE-12	12/06/02	79	75.40	Flush Mount	4	54-74	51
MPE-13	12/03/02	79	77.60	Flush Mount	4	54-74	50.7
MPE-14	11/25/02	79	76.80	Flush Mount	4	54-74	51
MPE-15	11/22/02	79	79.25	Flush Mount	4	59-74	54
MPE-16	11/27/02	79	78.20	Flush Mount	4	54-74	49
MPE-17	11/20/02	75	76.10	Flush Mount	4	55-70	49
MPE-18	11/21/02	79	78.68	Flush Mount	4	58-73	55
MPE-19	11/26/02	79	74.12	Flush Mount	4	49-74	46
MPE-20	11/20/02	78	77.60	Flush Mount	4	48-73	42
MPE-21	11/19/02	69	68.90	Flush Mount	4	44-64	41.9
MPE-22	11/07/02	80	77.52	Flush Mount	4	55-80	52
MPE-23	11/06/02	80	78.41	Flush Mount	4	55-80	52
MPE-24	11/13/02	74	73.77	Flush Mount	4	49-74	46
MPE-25	11/04/02	80	77.45	Flush Mount	4	54-79	51
MPE-26	11/06/02	84	77.35	Flush Mount	4	54-84	49
MPE-27	10/31/02	79	79.40	Flush Mount	4	54-79	48
MPE-28	10/31/02	82	77.67	Flush Mount	4	46-76	43
MPE-29	11/02/02	79	78.35	Flush Mount	4	54-79	51
MPE-30	10/25/02	80	77.96	Flush Mount	4	59-79	56
MPE-31	10/28/02	80	78.80	Flush Mount	4	59-79	58
MPE-32	11/19/02	79	78.30	Flush Mount	4	44-74	39.2
MPE-33	11/18/02	79	78.00	Flush Mount	4	44-79	41.6
MPE-34	10/24/02	80	77.52	Flush Mount	4	59-79	56
MPE-35	11/15/02	79	79.21	Flush Mount	4	54-74	51
MPE-36	11/14/02	74	71.31	Flush Mount	4	44-74	41
MPE-37	11/15/02	74	73.60	Flush Mount	4	44-74	41
MPE-38	08/07/13	75	75.00	Flush Mount	4	55-75	53
MPE-39	08/08/13	75	74.30	Flush Mount	4	55-75	53
MPE-40	08/08/13	75	72.60	Flush Mount	4	55-75	53
MPE-41	08/07/13	75	74.95	Flush Mount	4	55-75	53

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Table 3-6. Summary of Well Completion Details
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Date of Completion	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)

Note:
Light blue denote well plugged and abandoned (P&A) in August 2013
ft bgs - feet below ground surface
TOC - top of casing
in. - inches
na - not applicable
Pipeline through Circuit A is buried at a depth of approximately 5 feet and backfilled with native materials.

Prepared by: JIM 2/12/20
Checked by: RAH 2/25/20

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Table 4-1. SVE System Mass Removal Calculations for
Total Volatile Organic Compounds
Transwestern Compressor Station No. 9 - Roswell, NM

	West Thermal Oxidizer Unit				East Thermal Oxidizer Unit				Total				
Date	Total VOC (ug/m^3)	Flow Rate Q(scfm)	Mass Removal Rate M(lb/hr)	Mass Removal Rate M(tons/yr)	Total VOC Conc (ug/m^3)	Flow Rate Q(scfm)	Mass Removal Rate M(lb/hr)	Mass Removal Rate M(tons/yr)	Flow Rate Q(scfm)	Mass Removal Rate M(lb/hr)	Mass Removal Rate M(tons/yr)	Approximate 2019 Mass Removal Rate (gal/yr)	Approximate 2019 Mass Removal Rate (lbs/yr)
04/02/19	555,266	160	0.33	1.458	153,755	160	0.09	0.404	312	0.4	1.86	587	3,723
06/14/19	1,007,314	160	0.60	2.644	261,954	160	0.16	0.688	320	0.8	3.33	1,051	6,664
09/16/19	1,103,209	160	0.66	2.896	479,132	160	0.29	1.258	320	0.9	4.15	1,311	8,308
01/13/20	780,027	160	0.47	2.048	393,362	160	0.24	1.033	320	0.7	3.08	972	6,161
										General Average:	3.11	980	6,214
										Total Potential Criteria Pollutant Emissions*	2.89	910	5,767

*Actual Average at 93% Runtime

Notes:

1) Specific gravity of VOC is 0.76 based on Fingerprinting Analytical performed by Core Laboratories in October 2012.

VOC = Volatile Organic Compounds
TPY = Tons per year
ug/m^3 = micrograms per cubic meter
scfm = standard cubic feet per minute
lb/hr = pound per hour
gal/yr = gallons per year

Prepared by: JIM 02/12/20
Checked by: RAH 2/25/20

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Table 4-2. Summary of Treated Water Irrigation Rates
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
12/31/03										**2003-2008**
11/18/08					1,241,140					1,241,140
05/01/09	1200	CB	964,480	15,180	15,180	164.0	164	93	0.06	
06/04/09	1200	CB	1,030,720	66,240	81,420	34.0	198	1,948	1.35	
07/04/09	1200	CB	1,074,550	43,830	125,250	30.0	228	1,461	1.01	
08/04/09	1200	CB	1,112,060	37,510	162,760	31.0	259	1,210	0.84	
09/01/09	1200	CB	1,158,960	46,900	209,660	28.0	287	1,675	1.16	
10/06/09	1200	CB	1,176,620	17,660	227,320	35.0	322	505	0.35	
11/05/09	1200	CB	1,196,570	19,950	247,270	30.0	352	665	0.46	**2009**
11/23/09	1200	CB	1,223,480	26,910	274,180	18.0	370	1,495	1.04	274,180
06/20/10	1200	CB	1,223,490	10	274,190	209.0	579	0	0.00	
07/07/10	1200	CB	1,232,290	8,800	282,990	17.0	596	518	0.36	
08/05/10	1200	CB	1,248,520	16,230	299,220	29.0	625	560	0.39	
09/06/10	1200	CB	1,274,270	25,750	324,970	32.0	657	805	0.56	
09/14/10	1200	CB	1,279,310	5,040	330,010	8.0	665	630	0.44	
09/28/10	1200	CB	1,288,380	9,070	339,080	14.0	679	648	0.45	
11/05/10	1200	CB	1,288,390	10	339,090	38.0	717	0	0.00	**2010**
11/10/10	1200	CB	1,292,380	3,990	343,080	5.0	722	798	0.55	68,900
06/28/11	1200	CB	1,292,590	210	343,290	230.0	952	1	0.00	
07/13/11	1200	CB	1,297,670	5,080	348,370	15.0	967	339	0.24	
08/01/11	1200	CB	1,304,610	6,940	355,310	19.0	986	365	0.25	
09/03/11	1200	CB	1,317,270	12,660	367,970	33.0	1,019	384	0.27	
10/04/11	1200	CB	1,336,700	19,430	387,400	31.0	1,050	627	0.44	
11/01/11	1200	CB	1,357,820	21,120	408,520	28.0	1,078	754	0.52	**2011**
11/30/11	1200	CB	1,390,930	33,110	441,630	29.0	1,107	1,142	0.79	98,550
04/20/12	1200	CB	1,390,930	0	441,630	142.0	1,249	0	0.00	
05/04/12	1200	CB	1,416,840	25,910	467,540	14.0	1,263	1,851	1.29	
06/06/12	1200	CB	1,450,860	34,020	501,560	33.0	1,296	1,031	0.72	
07/04/12	1200	CB	1,464,990	14,130	515,690	28.0	1,324	505	0.35	
08/06/12	1200	CB	1,482,850	17,860	533,550	33.0	1,357	541	0.38	
09/05/12	1200	CB	1,502,280	19,430	552,980	30.0	1,387	648	0.45	
10/03/12	1200	CB	1,520,950	18,670	571,650	28.0	1,415	667	0.46	
11/05/12	1200	CB	1,537,050	16,100	587,750	33.0	1,448	488	0.34	**2012**
11/30/12	1200	CB	1,541,170	4,120	591,870	25.0	1,473	165	0.11	150,240
04/19/13	1200	CB	1,541,170	0	591,870	140.0	1,613	0	0.00	
04/30/13	1200	CB	1,553,090	11,920	603,790	11.0	1,624	1,084	0.75	
05/31/13	1200	CB	1,577,610	24,520	628,310	31.0	1,655	791	0.55	

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Table 4-2. Summary of Treated Water Irrigation Rates
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
06/30/13	1200	CB	1,614,920	37,310	665,620	30.0	1,685	1,244	0.86	**2013**
07/24/13	1200	CB	1,641,540	26,620	692,240	24.0	1,709	1,109	0.77	100,370
07/24/14	800	MB	1,641,550	10	692,250	364.8	2,074	0	0.00	
08/01/14	830	MB	1,646,660	5,110	697,360	8.0	2,082	1,143	0.79	
09/01/14	915	MB	1,673,410	26,750	724,110	31.0	2,113	821	0.57	
10/01/14	835	MB	1,693,890	20,480	744,590	30.0	2,143	1,887	1.31	
11/01/14	830	MB	1,744,480	50,590	795,180	31.0	2,174	1,632	0.99	**2014**
11/07/14	830	MB	1,753,390	8,910	804,090	6.0	2,180	1,473	1.02	111,840
06/25/15	630	CB	1,753,390	0	804,090	229.9	2,410	0	0.00	
06/26/15	900	CB	40,570	0	804,090	1.1	2,411	0	0.00	***New Meter**
07/01/15	-	CB	46,250	5,680	809,770	5.0	2,416	1,136	0.79	
08/06/15	-	CB	70,570	24,320	834,090	36.0	2,452	676	0.47	
10/03/15	745	CB	83,130	12,560	846,650	58.0	2,510	217	0.15	
11/04/15	-	CB	92,780	9,650	856,300	32.0	2,542	302	0.21	**2015**
11/30/15	-	CB	104,710	11,930	868,230	26.0	2,568	459	0.32	64,140
02/20/16	645	MB/CB	104,710	0	868,230	82.0	2,650	0	0.00	
03/14/16	830	MB/CB	109,930	5,220	873,450	23.1	2,591	226	0.16	
05/24/16	1120	MB/CB	127,415	22,705	890,935	71.1	2,721	319	0.22	
06/01/16	830	MB/CB	130,750	3,335	894,270	7.9	2,729	423	0.29	
07/01/16	600	MB/CB	150,680	19,930	914,200	29.9	2,759	666	0.46	
08/01/16	800	MB/CB	175,520	24,840	939,040	31.1	2,790	799	0.55	
09/01/16	700	MB/CB	192,820	17,300	956,340	31.0	2,821	559	0.39	
10/01/16	630	MB/CB	210,420	17,600	973,940	30.0	2,851	587	0.41	
11/01/16	700	MB/CB	232,570	22,150	996,090	31.0	2,882	714	0.50	**2016**
11/28/16	700	MB/CB	242,360	9,790	1,005,880	27.0	2,909	363	0.25	137,650
07/05/17	730	MB/CB	242,360	0	1,005,880	219.0	3,128	0	0.00	
07/06/17	630	MB/CB	242,940	580	1,006,460	0.96	3,129	605	0.42	
08/08/17	830	MB/CB	269,770	26,830	1,033,290	33.1	3,162	811	0.56	
08/21/17	715	MB/CB	269,770	0	1,033,290	13.0	3,175	0	0.00	
08/23/17	1100	MB/CB	270,910	1,140	1,034,430	2.2	3,177	528	0.37	
09/30/17	700	MB/CB	298,720	27,810	1,062,240	37.8	3,215	735	0.51	
10/31/17	700	MB/CB	320,550	21,830	1,084,070	31.0	3,246	704	0.49	
11/10/17	630	MB/CB	327,480	6,930	1,091,000	10.0	3,256	695	0.48	
11/16/17	700	MB/CB	327,480	0	1,091,000	6.0	3,262	0	0.00	

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Table 4-2. Summary of Treated Water Irrigation Rates
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Time	Inspector	Meter Reading (gallons)	Irrigated Volume (gallons)	Cummulative Irrigated Volume (gallons)	Elapsed Time (days)	Cummulative Elapsed Time (days)	Average Recovery Rate (GPD)	Average Recovery Rate (GPM)	Year Total (gallons)
11/30/17	830	MB/CB	332,720	5,240	1,096,240	14.1	3,276	373	0.26	**2017**
12/01/17	1300	MB/CB	332,910	190	1,096,430	1.2	3,277	159	0.11	90,550
04/24/18	715	MB/CB	332,910	0	1,096,430	143.8	3,421	0	0.00	
05/13/18	700	MB/CB	340,100	7,190	1,103,620	18.99	3,440	379	0.26	
06/11/18	700	MB/CB	340,100	0	1,103,620	29.0	3,469	0	0.00	
06/25/18	1100	MB/CB	342,410	2,310	1,105,930	14.2	3,483	163	0.11	
07/23/18	545	MB/CB	350,000	7,590	1,113,520	27.8	3,511	273	0.19	
08/06/18	600	MB/CB	354,640	4,640	1,118,160	14.0	3,525	331	0.23	
09/24/18	615	MB/CB	363,300	8,660	1,126,820	49.0	3,574	177	0.12	**2018**
10/22/18	715	MB/CB	374,330	11,030	1,137,850	28.0	3,602	393	0.27	41,420
01/01/19	800	MB/CB	374,330	0	1,137,850	71.0	3,673	0	0.00	
06/30/19	715	MB/CB	374,790	460	1,138,310	180.0	3,853	3	0.00	
07/25/19	700	MB/CB	375,480	690	1,139,000	24.99	3,878	28	0.02	
08/06/19	700	MB/CB	376,080	600	1,139,600	12.0	3,890	50	0.03	
08/20/19	1100	MB/CB	377,060	980	1,140,580	14.2	3,904	69	0.05	
09/05/19	545	MB/CB	383,000	5,940	1,146,520	15.8	3,920	377	0.26	
10/07/19	600	MB/CB	394,050	11,050	1,157,570	32.0	3,952	345	0.24	
10/16/19	615	MB/CB	394,680	630	1,158,200	9.0	3,961	70	0.05	**2019**
10/23/19	715	MB/CB	398,410	3,730	1,161,930	7.0	3,968	530	0.37	24,080

NOTES:

Irrigated Volume (gallons) = Difference between prior meter reading and current meter reading (gallons)
Cummulative Irrigated Volume (gallons) = Cummulative sum of Irrigated Volume (gallons)
Elapsed Time (days) = Calculated number of days from the prior date and time
Cummulative Elapsed Time (days) = Cummulative sum of Elapsed Time (days)
Average Recovery Rate (GPD) = Irrigated Volume (gallons) / Elapsed Time (days)
Average Recovery Rate (GPM) = Average Recovery Rate (GPD) / 24 (hours/day) / 60 (minutes/hour)
Historical data before 2009 is presented in previous reports

Prepared by: JIM 2/12/20
Checked by: RAH 2/25/20

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Table 4-3. Groundwater Treatment System
Mass Removal Calculations for Total BTEX
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Water Totalizer Meter Reading (gals)	Water Volume (gals)	Elapsed Time (days)	Flow Rate (gals/day)	Total BTEX (ug/L)	Mass Removal Rate (lbs/day)	Mass Removed (lbs)	Mass Removed (equivalent gals)
05/01/09	964,480	NA	NA	NA	NA	NA	NA	NA
05/25/09	1,003,890	39,410	24	1,642	4,339	0.0595	1.4	0.225
06/22/09	1,064,810	60,920	28	2,176	9,810	0.1782	5.0	0.788
07/21/09	1,107,950	43,140	29	1,488	9,910	0.1231	3.6	0.564
08/24/09	1,145,780	37,830	34	1,113	9,400	0.0873	3.0	0.469
09/28/09	1,165,680	19,900	35	569	6,230	0.0296	1.0	0.164
10/29/09	1,180,920	15,240	31	492	10,080	0.0414	1.3	0.203
11/18/09	1,214,350	33,430	20	1,672	6,840	0.0955	1.9	0.302
06/20/10	1,223,490	NA	NA	NA	NA	NA	NA	NA
06/30/10	1,227,190	3,700	10	370	7,120	0.0220	0.2	0.035
07/31/10	1,248,140	20,950	31	676	5,340	0.0301	0.9	0.148
08/30/10	1,265,630	17,490	30	583	6,350	0.0309	0.9	0.147
11/10/10	1,292,380	26,750	72	372	8,260	0.0256	1.8	0.291
08/01/11	1,304,610	NA	NA	NA	NA	NA	NA	NA
08/10/11	1,312,240	7,630	9	848	4,400	0.0311	0.3	0.044
10/09/11	1,344,310	32,070	60	535	10,540	0.0470	2.8	0.446
11/03/11	1,357,820	13,510	25	540	10,540	0.0476	1.2	0.188
04/20/12	1,390,930	NA	NA	NA	NA	NA	NA	NA
04/30/12	1,413,930	23,000	10	2,300	8,800	0.1690	1.7	0.267
06/05/12	1,450,860	36,930	36	1,026	8,920	0.0764	2.8	0.435
06/28/12	1,459,530	8,670	23	377	10,050	0.0316	0.7	0.115
07/25/12	1,479,740	20,210	27	749	10,460	0.0654	1.8	0.279
08/15/12	1,486,280	6,540	21	311	8,970	0.0233	0.5	0.077
09/23/12	1,513,290	27,010	39	693	8,870	0.0513	2.0	0.316
10/25/12	1,524,400	11,110	32	347	10,480	0.0304	1.0	0.154
11/28/12	1,541,110	16,710	34	491	8,530	0.0350	1.2	0.188
04/30/13	1,553,090	NA	NA	NA	NA	NA	NA	NA
05/16/13	1,576,010	22,920	16	1,433	10,560	0.1263	2.0	0.319
06/17/13	1,614,920	38,910	32	1,216	9,760	0.0991	3.2	0.501
07/17/13	1,641,540	26,620	30	887	11,170	0.0828	2.5	0.392
07/24/14	1,641,550	NA	NA	NA	NA	NA	NA	NA
07/31/14	1,645,550	4,000	7	571	4,270	0.0204	0.1	0.023
08/25/14	1,667,720	22,170	25	887	4,410	0.0327	0.8	0.129
09/17/14	1,683,180	15,460	23	672	7,280	0.0409	0.9	0.148
10/15/14	1,714,440	31,260	28	1,116	8,500	0.0792	2.2	0.351
07/01/15	46,250	NA	NA	NA	NA	NA	NA	NA
07/15/15	56,930	10,680	14	763	7,360	0.0469	0.7	0.104
10/27/15	91,500	34,570	104	332	4,600	0.0128	1.3	0.210
11/20/15	104,710	13,210	24	550	8,660	0.0398	1.0	0.151
03/23/16	114,640	NA	NA	NA	NA	NA	NA	NA
05/19/16	127,415	12,775	57	224	4,160	0.0078	0.4	0.070
06/28/16	148,810	21,395	40	535	3,720	0.0166	0.7	0.105
07/07/16	155,900	7,090	9	788	6,360	0.0418	0.4	0.059
08/24/16	190,170	34,270	48	714	6,370	0.0380	1.8	0.288
09/21/16	204,940	14,770	28	528	6,690	0.0295	0.8	0.130
10/24/16	225,540	20,600	33	624	4,040	0.0211	0.7	0.110
11/03/16	234,090	8,550	10	855	7,280	0.0520	0.5	0.082

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Table 4-3. Groundwater Treatment System
Mass Removal Calculations for Total BTEX
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Water Totalizer Meter Reading (gals)	Water Volume (gals)	Elapsed Time (days)	Flow Rate (gals/day)	Total BTEX (ug/L)	Mass Removal Rate (lbs/day)	Mass Removed (lbs)	Mass Removed (equivalent gals)
07/05/17	242,360	NA	NA	NA	NA	NA	NA	NA
07/11/17	248,050	5,690	6	948	15,194	0.1203	0.7	0.114
08/24/17	272,050	24,000	44	545	9,100	0.0414	1.8	0.288
09/25/17	296,160	24,110	32	753	12,450	0.0783	2.5	0.396
10/23/17	316,010	19,850	28	709	12,100	0.0716	2.0	0.317
11/27/17	331,400	15,390	35	440	12,100	0.0444	1.6	0.246
06/11/18	332,910	NA	NA	NA	NA	NA	NA	NA
06/25/18	342,410	9,500	14	679	4,620	0.0262	0.4	0.058
07/23/18	350,000	7,590	28	271	7,300	0.0165	0.5	0.073
08/06/18	354,640	4,640	14	331	9,780	0.0271	0.4	0.060
09/24/18	363,300	8,660	49	177	10,850	0.0160	0.8	0.124
10/22/18	374,330	11,030	28	394	12,260	0.0403	1.1	0.178
01/01/19	374,330	0	71	0	NA	NA	NA	NA
06/30/19	374,790	460	180	3	NA	NA	NA	NA
08/20/19	377,060	980	14	70	NA	NA	NA	NA
09/16/19	383,000	10,017	27	371	12,540	0.0389	1.049	0.166
10/29/19	398,410	15,410	43	358	11,890	0.0355	1.528	0.241
						Total	**71**	**11.277**

Notes:
BTEX - benzene, toluene, ethylbenzene, xylenes
gals - gallons
ug/L - micrograms per liter
lbs - pounds
NA - not applicable, system deactivated during winter months
Total BTEX concentrations are reported from analytical results of monthly influent samples.
1) Specific gravity of VOC is 0.76 based on Fingerprinting Analytical performed by Core Laboratories in October 2012.
2) Between June and August 2019, system was deactivated due to semi-annual sampling delays and malfunctions with the system; therefore water treatment samples were not collected.

Prepared by: JIM 2/13/20
Checked by: RAH 2/25/20

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Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
Post-Treatment	05/25/09	< 1.0	< 1.0	< 1.0	< 1.5	< 0.05	49	< 10	ND	< 0.5	**430**	**1,600**	< 1.0	1.3	490	130	2.7	200
	06/22/09	< 1.0	< 1.0	< 1.0	< 1.5	--	70	< 10	ND	< 0.5	**440**	**1,200**	< 5.0	1.5	430	130	2.6	200
	07/21/09	< 1.0	< 1.0	< 1.0	< 1.5	--	13	< 10	ND	< 0.5	**480**	**1,500**	< 2.0	**1.7**	470	140	3.1	210
	08/24/09	< 1.0	< 1.0	< 1.0	< 1.5	--	13	16	ND	< 0.5	74	110	< 2.0	**2.1**	510	140	3.1	210
	09/28/09	< 1.0	< 1.0	< 1.0	< 1.5	--	19	14	ND	< 0.5	**430**	**1,200**	< 1.0	**1.6**	370	120	2.8	210
	10/29/09	< 1.0	< 1.0	< 1.0	< 1.5	--	20	15	ND	< 0.5	**440**	**1,500**	< 0.5	**1.8**	440	130	3.1	200
	11/18/09	4.8	1.3	< 1.0	< 1.5	--	24	18	ND	< 0.5	**430**	**1,600**	< 2.0	**2.1**	490	140	3.4	200
	06/30/10	**5.6**	< 1.0	< 1.0	< 1.5	--	110	17	ND	< 0.5	**420**	**910**	< 1.0	**1.7**	330	120	2.8	210
	07/31/10	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**410**	**1,100**	< 1.0	1.1	420	130	5.3	200
	08/30/10	< 1.0	< 1.0	< 1.0	< 1.5	--	60	< 10	ND	< 0.5	**460**	**1,600**	< 2.0	1.2	500	150	2.8	210
	11/10/10	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	1.1	**480**	**1,300**	< 2.0	1.0	430	130	3.1	220
	08/10/11	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 10	**490**	**1,600**	< 0.1	1.1	500	150	3.7	230
	10/09/11	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**430**	**1,400**	1.4	1.5	490	160	2.8	220
	11/03/11	< 1.0	< 1.0	< 1.0	< 1.5	--	41	< 10	ND	< 0.5	**400**	**1,500**	< 0.1	1.4	520	140	2.6	210
	04/30/12	< 1.0	< 1.0	< 1.0	< 1.5	--	70	20	ND	< 10 (H)	**390**	**1,300**	< 1.0	**11 ***	490	140	2.8	210
	06/05/12	1.2	< 1.0	< 1.0	< 1.5	--	43	24	ND	< 10	**370**	**1,300**	< 1.0	**5.5 ***	490	130	3.0	200
	06/28/12	1.7	< 1.0	< 1.0	< 1.5	--	62	31	ND	< 10	**440**	**1,500**	< 0.2	**12 ***	500	150	2.8	220
	07/25/12	< 1.0	< 1.0	< 1.0	< 1.5	--	28	< 10	ND	< 10	**430**	**1,200**	< 0.2	**14 ***	460	140	3.0	200
	08/15/12	< 1.0	< 1.0	< 1.0	< 1.5	--	37	< 10	ND	< 0.5	**370**	**700**	0.20	1.4	350	120	2.7	210
	09/23/12	< 1.0	< 1.0	< 1.0	< 1.5	--	71	< 10	ND	< 0.5	**420**	**660**	< 0.1	1.4	330	120	3.3	210
	10/25/12	< 1.0	< 1.0	< 1.0	< 1.5	--	55	< 10	ND	< 2.5	**420**	**1,200**	< 0.5	< 0.5	410	140	2.5	210
	11/28/12	< 1.0	< 1.0	< 1.0	< 1.5	--	44	< 10	ND	< 0.5	**440**	**1,200**	< 1.0	< 0.5	360	130	3.2	200
	05/16/13	< 1.0	< 1.0	< 1.0	< 1.5	--	59	< 10	ND	< 0.5	**380**	**1,300**	< 0.1	**7.8 ***	490	140	3.2	210
	06/17/13	< 1.0	< 1.0	< 1.0	< 1.5	--	66	< 10	ND	< 10	**340**	**1,000**	< 0.1	**5.4 ***	460	130	5.6	230
	07/17/13	< 1.0	< 1.0	< 1.0	< 1.5	--	74	17	ND	< 2.5 (H)	**380**	**1,100**	< 1.0	1.2	480	130	2.8	200
	07/31/14	< 1.0	< 1.0	< 1.0	< 3.0	--	6.2	< 2	ND	< 0.0 (H)	**430**	**1,320**	< 0.1	**4.64**	503	126	2.8	211
	08/25/14	< 1.0	< 1.0	< 1.0	< 3.0	--	14	< 2	ND	< 0	**372**	**983**	< 0.1	1.17	397	126	2.4	182
	09/17/14	< 1.0	< 1.0	< 1.0	< 3.0	--	< 2	< 2	ND	1.8	**359**	**939**	< 0.1	**2.55**	281	109	382	249
	10/15/14	< 1.0	< 1.0	< 1.0	< 3.0	--	10	< 2	ND	< 0	**315**	**1,730**	0.46	1.38	489	152	5.00	302
	07/15/15	< 1.0	< 1.0	< 1.0	< 3.0	--	25	< 2	ND	< 0.025	**395**	**617**	< 0.1	1.44	227	95.1	2.12	201
	10/27/15	< 1.0	< 1.0	< 1.0	< 3.0	--	11	0.22	ND	0.041	**382**	483	<0.1	**1.66**	242	107	1.77	190
	11/20/15	< 1.0	< 1.0	< 1.0	< 3.0	--	< 2	< 2	ND	0.111	**397**	429	0.242	**5.53**	244	88.4	1.48	189
	03/21/16	< 1.0	< 1.0	< 1.0	< 3.0	--	32	< 2	ND	0.195	**387**	411	< 0.1	1.48	232	101	1.45	204
	04/20/16	< 1.0	< 1.0	< 1.0	< 3.0	--	19	< 2	ND	0.195	**388**	358	< 0.1	1.37	197	97.1	1.42	215
	05/19/16	< 1.0	< 1.0	< 1.0	< 3.0	--	< 2	< 2	ND	< 0.025	**458**	415	< 0.1	**2.06**	258	104	1.69	227
	06/28/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	**840**	< 0.1	**2.60**	280	110	2.6	200
	07/07/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**360**	**780**	< 0.1	< 0.1	290	120	2.1	210
	08/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 10	**350**	**850**	< 0.1	**1.9**	290	120	1.7	210
	09/21/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**370**	**890**	< 0.1	**1.9**	320	120	2.1	230
	10/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**360**	**900**	< 0.1	1.5	340	130	2.3	220
	11/03/16	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**330**	**910**	< 0.1	**1.9**	330	120	1.9	200
Post-Treatment	07/11/17	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 2.5	**420**	560	< 0.1	< 0.5	220	92	1.7	170
	08/24/17	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**370**	520	< 0.1	1.5	220	110	1.7	210
	09/25/17	3.1	2.1	< 1.0	< 1.5	--	< 10	< 10	ND	< 2.5	**410**	**610**	< 0.5	< 0.5	260	110	2.2	120
	10/23/17	1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	**740**	< 0.1	1.2	270	100	1.8	190
	11/27/17	1.7	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	**810**	< 0.1	1.2	310	100	1.8	200
	06/28/18	< 2.5	< 2.5	< 2.5	< 3.8	--	< 25	< 25	ND	< 0.5	**420**	230	< 1.0	1.1	140	110	1.9	220
	07/23/18	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**410**	340	< 0.1	< 0.1	200	110	1.9	210
	08/13/18	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**400**	420	< 0.1	< 0.5	240	130	1.9	210
Post-Treatment	09/19/18	< 1.0	< 1.0	< 1.0	< 1.5	--	< 10	< 10	ND	< 0.5	**440**	550	< 0.1	< 2.0	280	120	3.0	210

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Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
	10/18/18	< 1.0	< 1.0	< 1.0	< 1.5	--	17	< 10	ND	< 0.5	**400**	590	< 0.1	1.1	270	120	1.7	220
	09/16/19	< 1.0	< 1.0	< 1.0	< 1.5	--	<10	10	ND	<0.5	**440**	800	<0.1	0.98	290	110	2.2	220
	10/29/19	< 1.0	< 1.0	< 1.0	< 1.0	--	<10	< 10	ND	<0.5	**400**	NT	NT	NT	320	110	2.1	200
Between GACs	06/22/09	**350**	570	16	210	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/21/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/28/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/09	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/18/09	**9.3**	3.3	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/10	2.1	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/10	**200**	200	12	150	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/30/10	**300**	440	22	280	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/10/10	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/10/11	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/09/11	3.2	1.6	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/11	2.8	1.6	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/30/12	3.6	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/05/12	3.9	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/12	4.7	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/25/12	1.8	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/15/12	1.7	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/23/12	1.7	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/25/12	1.5	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/28/12	1.5	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/16/13	3.3	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/17/13	4.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/17/13	3.2	1.8	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/14	**5.5**	3.4	< 1.0	4	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/25/14	**6.4**	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/17/14	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/15/14	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/15/15	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/27/15	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/20/15	**12**	10.0	< 1.0	7.5	--	---	---	---	---	---	---	---	---	---	---	---	---
Between GACs	03/21/16	**6.7**	9.9	< 1.0	20	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/20/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/19/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/07/16	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/21/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/24/16	4.5	5	< 1.0	4.4	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/16	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/11/17	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/17	4	3.6	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/25/17	**600**	650	25	220	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/24/17	**16**	14	<1.0	7.7	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/17	**21**	19	< 1.0	8.7	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/18	**5.2**	2.6	< 1.0	1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/18	**13**	7.1	< 1.0	5.6	--	---	---	---	---	---	---	---	---	---	---	---	---

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Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
	08/13/18	**11**	5	< 1.0	3.9	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/19/18	**8.1**	4	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/18/18	**47**	47	1.6	21	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/16/19	**2.1**	<1.0	<1.0	<2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/19	**17**	18	<1.0	9.2	--	---	---	---	---	---	---	---	---	---	---	---	---
Post-Air Stripper	05/25/09	**260**	680	33	**790**	5.3	---	---	---	---	---	---	---	---	---	---	---	---
	06/22/09	**960**	**1,600**	63	**830**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/21/09	**280**	500	< 20	280	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/09	**230**	350	13	220	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/28/09	**290**	72	19	240	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/09	**450**	670	42	430	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/18/09	**200**	470	18	300	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/10	**450**	460	13	250	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/10	**190**	200	11	140	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/30/10	**450**	660	31	450	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/10/10	**59**	97	< 10	65	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/10/11	1.4	2.7	< 1	3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/09/11	**21**	37	2.0	22	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/11	**30**	66	3.4	47	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/30/12	< 1	1.3	< 1	2.2	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/05/12	< 1	1.0	< 1	< 2	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/12	< 1	< 1	< 1	< 2	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/25/12	**170**	270	12	130	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/15/12	**13**	16	< 5	10	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/23/12	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/25/12	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/28/12	**5.1**	8.4	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/16/13	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/17/13	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/17/13	< 5	< 5	< 5	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/14	< 1	< 1	< 1	< 3	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/25/14	< 1	< 1	< 1	< 3	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/17/14	< 1	< 1	< 1	< 3	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/15/14	5	11	< 1	10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/15/15	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/27/15	**12**	14	1.5	11	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/20/15	**110**	160	9.3	140	--	---	---	---	---	---	---	---	---	---	---	---	---
	03/21/16	**22**	77	14	200	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/20/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/19/16	< 1.0	< 1.0	< 1.0	< 3.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/16	< 2.5	< 5.0	< 5.0	< 10	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/0716	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/21/16	< 1.0	< 1.0	< 1.0	< 1.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/24/16	**20**	26	1.5	25	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/16	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
Post-Air Stripper	07/11/17	< 1.0	< 1.0	< 1.0	< 2.0	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/17	5.6	6.7	< 1.0	3.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/25/17	**380**	470	19	190	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/23/17	**9.6**	13	< 1.0	8	--	---	---	---	---	---	---	---	---	---	---	---	---

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Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
	11/27/17	**29**	38	2	20	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/18	**8.3**	8.1	< 1.0	6.5	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/18	**22**	19	1.7	17	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/13/18	**20**	20	1.5	14	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/19/18	**74**	71	4.4	42	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/18/18	**110**	170	10	120	---	---	---	---	---	---	---	---	---	---	---	---	---
	09/16/19	**5.0**	6.2	<1.0	3.6	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/19	**44**	52	1.9	36	---	---	---	---	---	---	---	---	---	---	---	---	---
Pre-Treatment	05/25/09	**640**	**1,700**	99	**1,900**	15	---	---	---	---	---	---	---	---	---	---	---	---
	06/22/09	**2,700**	**4,500**	210	**2,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/21/09	**2,500**	**4,600**	210	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/09	**2,700**	**4,000**	200	**2,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/28/09	**2,900**	910	220	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/09	**3,000**	**4,100**	280	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/18/09	**1,400**	**3,300**	140	**2,000**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/30/10	**2,700**	**2,800**	120	**1,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/10	**1,900**	**2,000**	140	**1,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/30/10	**1,800**	**2,600**	150	**1,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/10/10	**2,400**	**3,900**	220	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/10/11	**970**	**1,900**	130	**1,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/09/11	**3,000**	**4,800**	240	**2,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/11	**2,400**	**4,900**	260	**2,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/30/12	**3,100**	**3,400**	200	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/05/12	**2,600**	**3,900**	220	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/12	**3,000**	**4,500**	250	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/25/12	**2,900**	**4,600**	260	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/15/12	**2,900**	**3,500**	270	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/23/12	**2,600**	**3,600**	270	**2,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/25/12	**3,200**	**4,400**	280	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/28/12	**2,300**	**3,700**	230	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/16/13	**2,800**	**4,900**	260	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/17/13	**2,500**	**4,500**	260	**2,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/17/13	**3,000**	**5,300**	270	**2,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/31/14	**570**	**1,500**	< 100	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/25/14	**1,200**	**1,600**	110	**1,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/17/14	**2,100**	**3,100**	180	**1,900**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/15/14	**2,200**	**3,900**	200	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/15/15	**2,700**	**2,600**	160	**1,900**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/27/15	**1,700**	**1,700**	< 100	**1,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/20/15	**2,700**	**3,500**	160	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	03/21/16	**1,500**	**2,200**	140	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	04/20/16	**1,100**	**1,600**	100	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/19/16	**960**	**1,100**	100	**2,000**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/16	**2,100**	520	130	**970**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/07/16	**2,000**	**2,400**	160	**1,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/16	**1,500**	**2,500**	170	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---

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Table 4-4 Summary of Water Treatment System Analyses
Transwestern Compressor Station No. 9 - Roswell, NM

Sample Point	Sampling Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (total) (ug/L)	GRO (Gasoline Range)	Acetone (ug/L)	2-Butanone (ug/L)	Remaining VOCs	Phosphorus (As P) (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate (NO3 as N) (mg/L)	Fluoride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Potassium mg/L)	Sodium (mg/L)
NMWQCC Standard:		5	1,000	700	620	none	none	none	NA	none	250	600	10.0	1.6	none	none	none	none
	09/21/16	**1,900**	**2,400**	190	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
Pre-Treatment	10/24/16	**1,100**	**1,200**	140	**1,600**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/03/16	**1,700**	**3,000**	180	**2,400**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/11/17	**5,200**	**7,000**	160	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/24/17	**3,600**	**3,800**	200	**1,500**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/25/17	**4,300**	**5,700**	250	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/23/17	**4,400**	**5,200**	200	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/17	**4,400**	**5,300**	200	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	06/28/18	**1,900**	**1,600**	120	**1,000**	--	---	---	---	---	---	---	---	---	---	---	---	---
	07/23/18	**3,000**	**2,300**	200	**1,800**	--	---	---	---	---	---	---	---	---	---	---	---	---
	08/13/18	**3,800**	**3,600**	280	**2,100**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/19/18	**4,100**	**4,300**	250	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/18/18	**3,900**	**5,400**	260	**2,700**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/16/19	**4,600**	**5,400**	240	**2,300**	--	---	---	---	---	---	---	---	---	---	---	---	---
	10/29/19	**4,500**	**5,000**	190	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
ug/L = micrograms per liter
NT = Not Tested
Concentrations are reported in ug/L except as noted.
Bold - Concentrations exceed the NMWQCC standard
Historical data before 2009 is presented in previous reports.

Prepared by: JIM 2/17/20
Checked by: RAH 2/25/20

Table 4-5. Summary of Air Stripper Vapor Monitoring
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Prior to Carbon (ppmV)	Between Carbon Vessels (ppmV)	After Carbon Vessels (ppmV)
7/15/2019	7.05	0	0
8/22/2019	14.6	0	0
8/31/2019	14.6	0	0
9/1/2019	25.1	0	0
9/16/2019	25.1	0	0

Notes:

Prepared by: JIM 04/17/20

Checked by: SD 04/22/20

1. ppmV - parts per million per volume

2. Due to an undiscovered blockage (insects and debris) of the sample port prior to air stripper carbon vessel, influent PID vapor readings were inadvertently reported as zero by field personnel. 2018 historical data combined with available 2019 water treatment data was used to correlate and average the approximate influent PID vapor reading for air stripper carbon vessel.

3. PID vapor readings were inadvertently not collected from the ports of the carbon vessels by field personnel in October 2019 prior to be deactivated for semiannual sampling event.

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Table 4-6. Historical Hydrocarbon Removal Summary
Transwestern Compressor Station No. 9 - Roswell, NM

Year	Extracted Groundwater (gals)	PSH Recovered (gal)	Dissolved-Phase Mass Removal (gal)	Vapor-Phase Mass Removal (gal)	Total Mass Removed (Lbs)
2015	64,140	310	0.46	380	3
2016	137,650	350	0.90	320	5
2017	90,550	1,550	1.40	480	8.6
2018	41,120	1,330	0.50	1,320	3.12
2019	23,620	1,550	0.41	910	2.58

Notes:
gals - gallons
PSH - phase separated hydrocarbons

Prepared by: JIM 04/17/20
Checked by: SD 04/22/20

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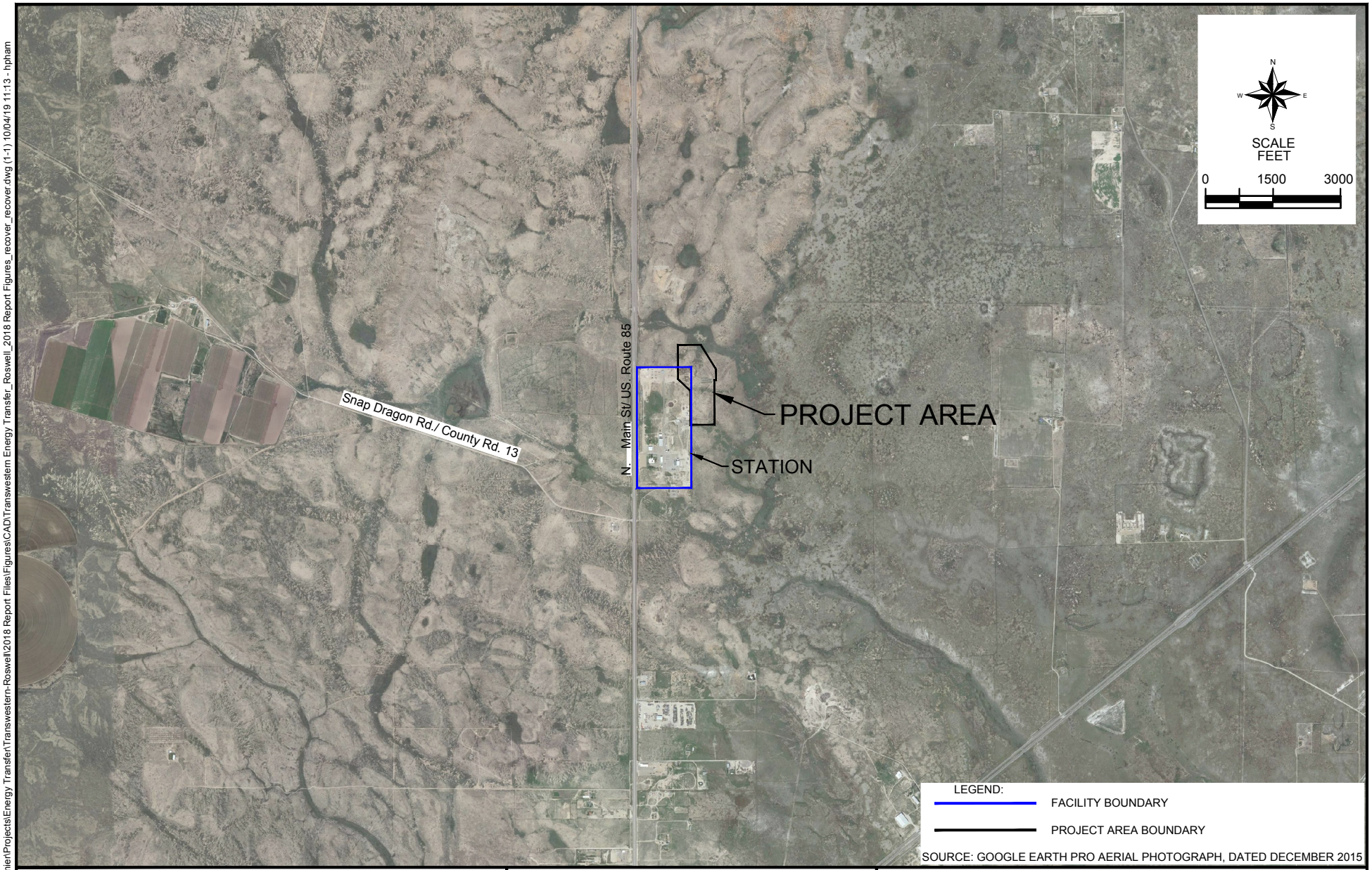
FIGURES



REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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PROJECT AREA LOCATION MAP

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JF	10/04/2019	1-1

FILENAME: \\10.0.10.34\garnet\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover.dwg (1-1) 10/04/19 11:13 - hpham

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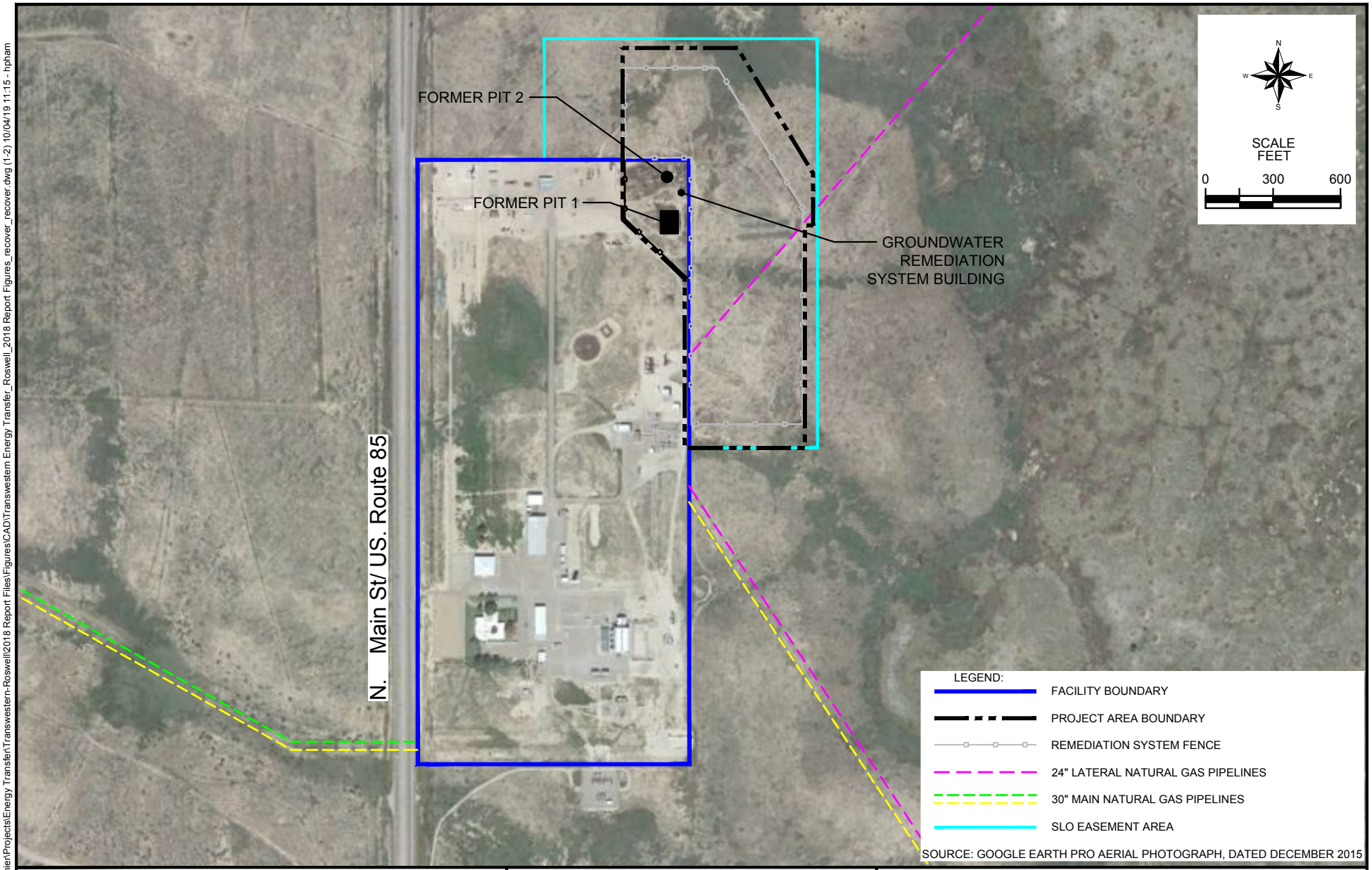

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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PROJECT AREA FEATURES

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HVP	JF	10/04/2019	1-2

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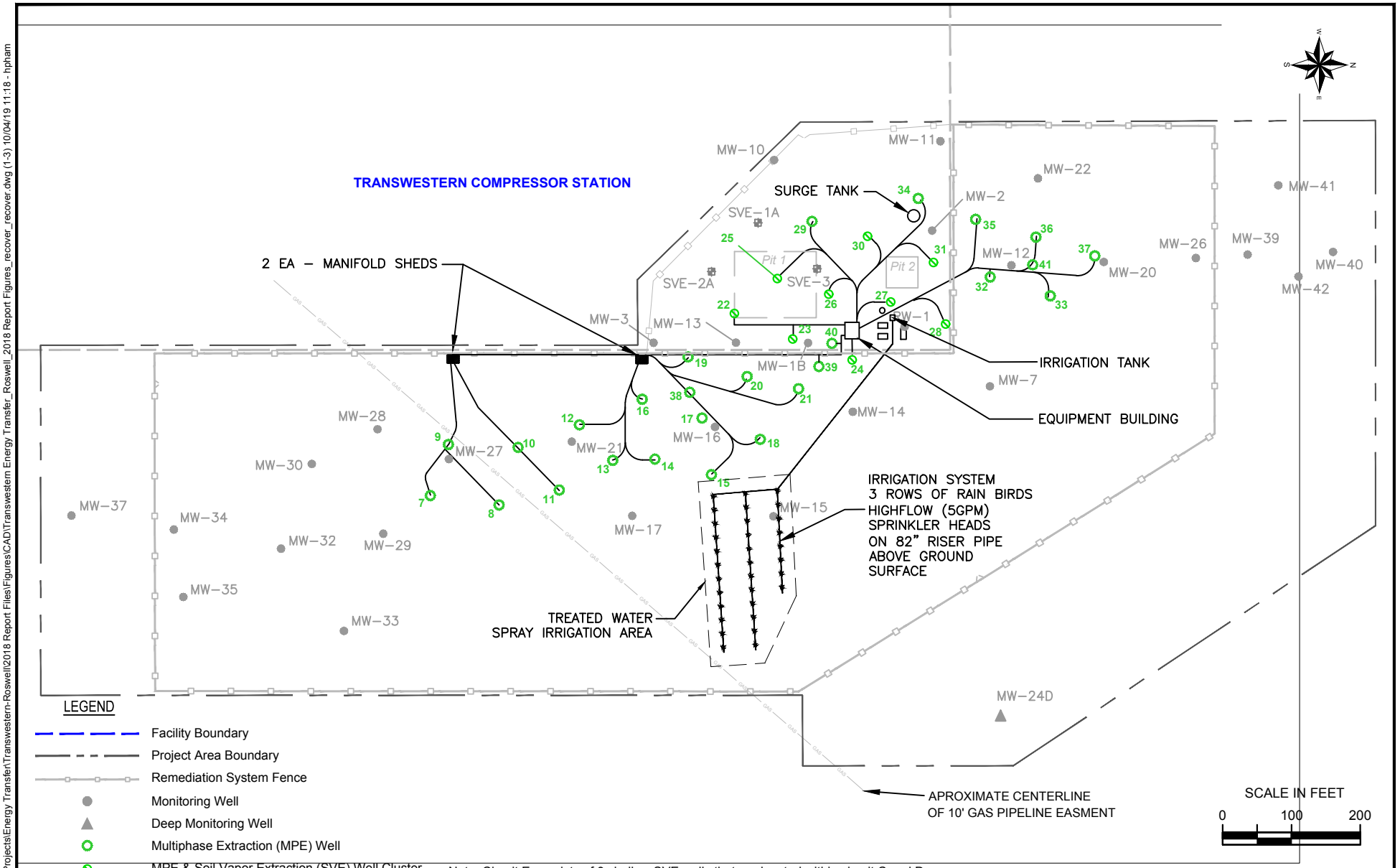

Note: Circuit E consists of 9 shallow SVE wells that are located within circuit C and D.

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

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REMEDIATION SYSTEM LAYOUT

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HVP	JF	10/04/2019	1-3

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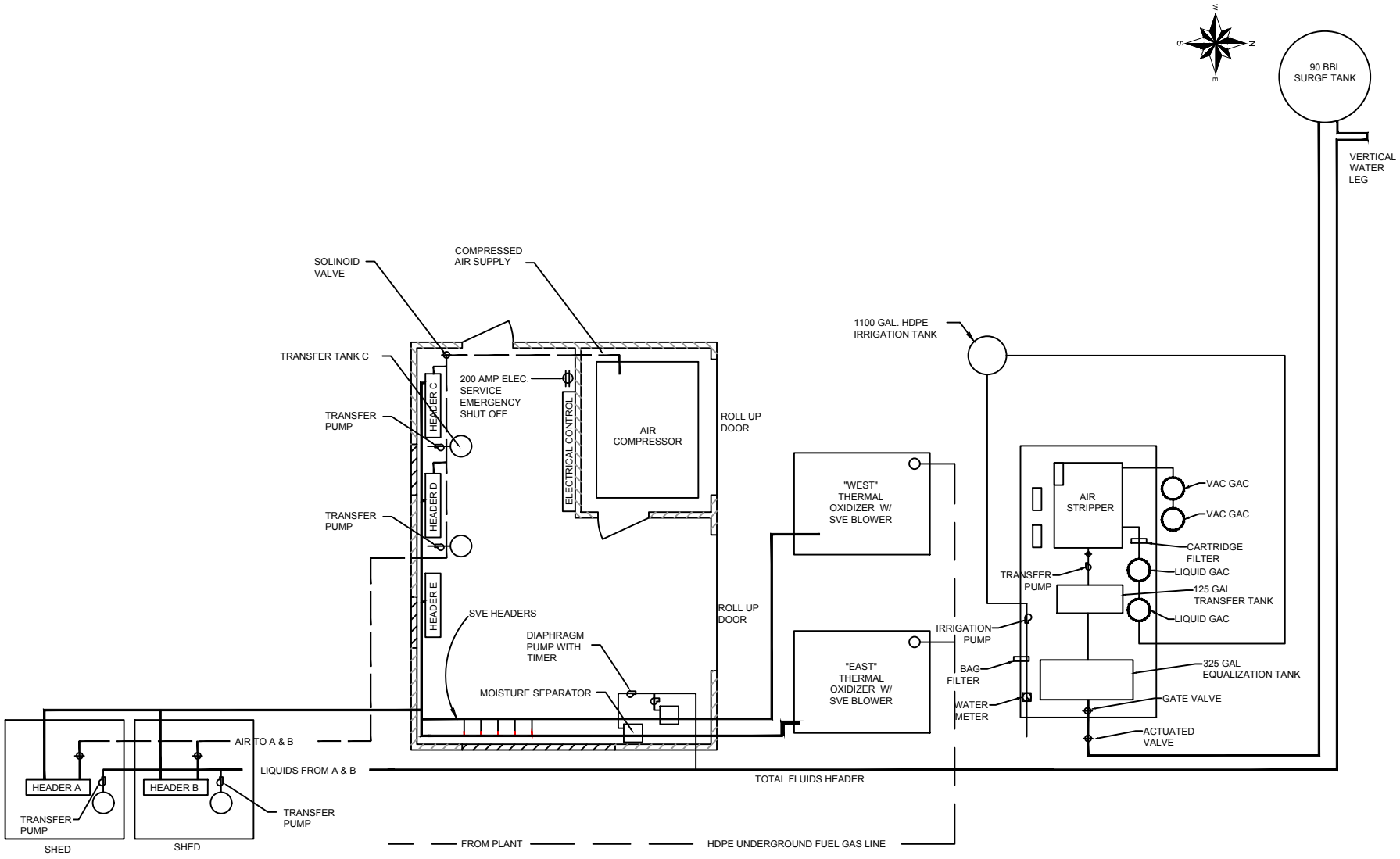

(NOT TO SCALE)

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
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REMEDIATION SYSTEM
EQUIPMENT COMPOUND DETAIL

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	JF	10/04/2019	1-4

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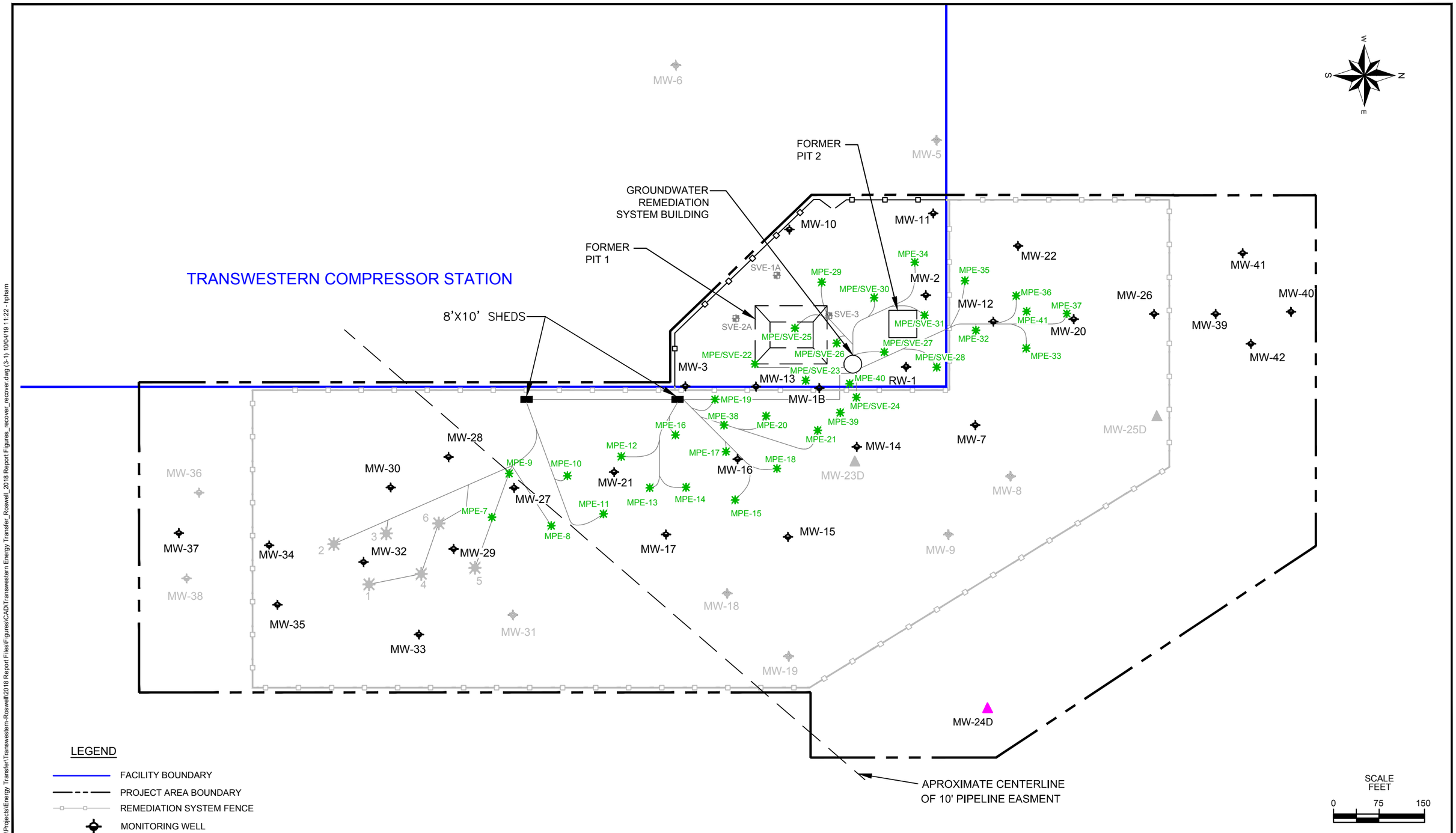

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MONITORING WELL
- MULTIPHASE EXTRACTION WELL
- DEEP MONITORING WELL
- MONITORING/MULTIPHASE EXTRACTION WELL PLUGGED AND ABANDONED IN AUGUST 2013 (MWs, MW-D, MPEs)

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2018 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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WELL LOCATIONS

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TRANSWESTERN COMPRESSOR STATION

GROUNDWATER REMEDIATION SYSTEM BUILDING

FORMER PIT 1

FORMER PIT 2

MW-10 3,548.96

MW-11 3,548.90

MW-22 3,548.87

MW-2 3,552.84

MW-12 3,551.60

MW-20 3,549.34

MW-26 3,548.66

MW-41 3,544.88

MW-40 3,543.28

MW-39 3,548.41

MW-42 3,540.92

MW-3 3,548.30

MW-13 3,548.06

MW-1B 3,549.25

RW-1

MW-28 3,545.94

MW-30 3,545.71

MW-27 3,546.33

MW-21 3,546.11

MW-16 3,545.85

MW-14 3,549.67

MW-7 3,537.03*

MW-15 3,550.1

MW-17 3,546.15

MW-37 3,541.04

MW-34 3,541.25

MW-32 3,541.65

MW-29 3,544.23

MW-35 3,540.98

MW-33 3,545.41

MW-24D

3548 3550 3552 3546 3544 3542

SVE-1A SVE-2A SVE-3

MPE-7 MPE-8 MPE-9 MPE-10 MPE-12 MPE-13 MPE-16 MPE-19 MPE-20 MPE-21 MPE-24 MPE-29 MPE-30 MPE-34 MPE-35 MPE-36 MPE-37 MPE-38 MPE-39 MPE-41

MPE/SVE-22 MPE/SVE-25 MPE/SVE-27 MPE/SVE-28 MPE/SVE-31

APROXIMATE CENTERLINE OF 10' PIPELINE EASMENT

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-35 3540.89 — MONITORING WELL WITH GROUNDWATER ELEVATION (ft MSL)
- DEEP MONITORING WELL (GROUNDWATER ELEVATION NOT USED IN CONTOURING)
- MULTIPHASE EXTRACTION WELL
- 3,544 — POTENTIOMETRIC GROUNDWATER CONTOUR
- GENERAL DIRECTION OF GROUNDWATER FLOW
- 3,550.1* — GROUNDWATER ELEVATION CONSIDERED ANOMALOUS AND NOT USED IN CONTOURING

SOURCE: CYPRESS ENGINEERING SERVICES INC.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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GROUNDWATER SURFACE ELEVATION IN THE UPPER AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	08/05/2020	3-2

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TRANSWESTERN COMPRESSOR STATION

FORMER PIT 2

GROUNDWATER REMEDIATION SYSTEM BUILDING

FORMER PIT 1

MW-10 MW-11 MW-22 MW-41 MW-40 MW-26 MW-39 MW-42 MW-20 MW-12 MW-2 MW-3 MW-13 MW-1B RW-1 MW-14 MW-7 MW-16 MW-15 MW-17 MW-24D

SVE-1A SVE-2A SVE-3

MPE-7 MPE-8 MPE-9 MPE-10 MPE-11 MPE-12 MPE-13 MPE-14 MPE-15 MPE-16 MPE-17 MPE-18 MPE-19 MPE-20 MPE-21 MPE-22 MPE-23 MPE-24 MPE-25 MPE-26 MPE-27 MPE-28 MPE-29 MPE-30 MPE-31 MPE-32 MPE-33 MPE-34 MPE-35 MPE-36 MPE-37 MPE-38 MPE-39 MPE-40 MPE-41

MW-28 3,546.09
MW-30 3,545.74
MW-27 3,546.29
MW-21 3,546.73
MW-37 3,540.73
MW-34 3,541.07
MW-32 3,541.73
MW-29 3,544.22
MW-35 3,540.40
MW-33 3,545.42

3546 3544 3542

APROXIMATE CENTERLINE OF 10' PIPELINE EASMENT

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-35 3540.89 — MONITORING WELL WITH GROUNDWATER ELEVATION (ft MSL)
- DEEP MONITORING WELL (GROUNDWATER ELEVATION NOT USED IN CONTOURING)
- MULTIPHASE EXTRACTION WELL
- 3,540.40 — POTENTIOMETRIC GROUNDWATER CONTOUR
- GENERAL DIRECTION OF GROUNDWATER FLOW

SOURCE: CYPRESS ENGINEERING SERVICES INC.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.20180005.00

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GROUNDWATER SURFACE ELEVATION IN THE UPPER AQUIFER NOVEMBER 2019

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HVP	SD	08/05/2020	3-3A

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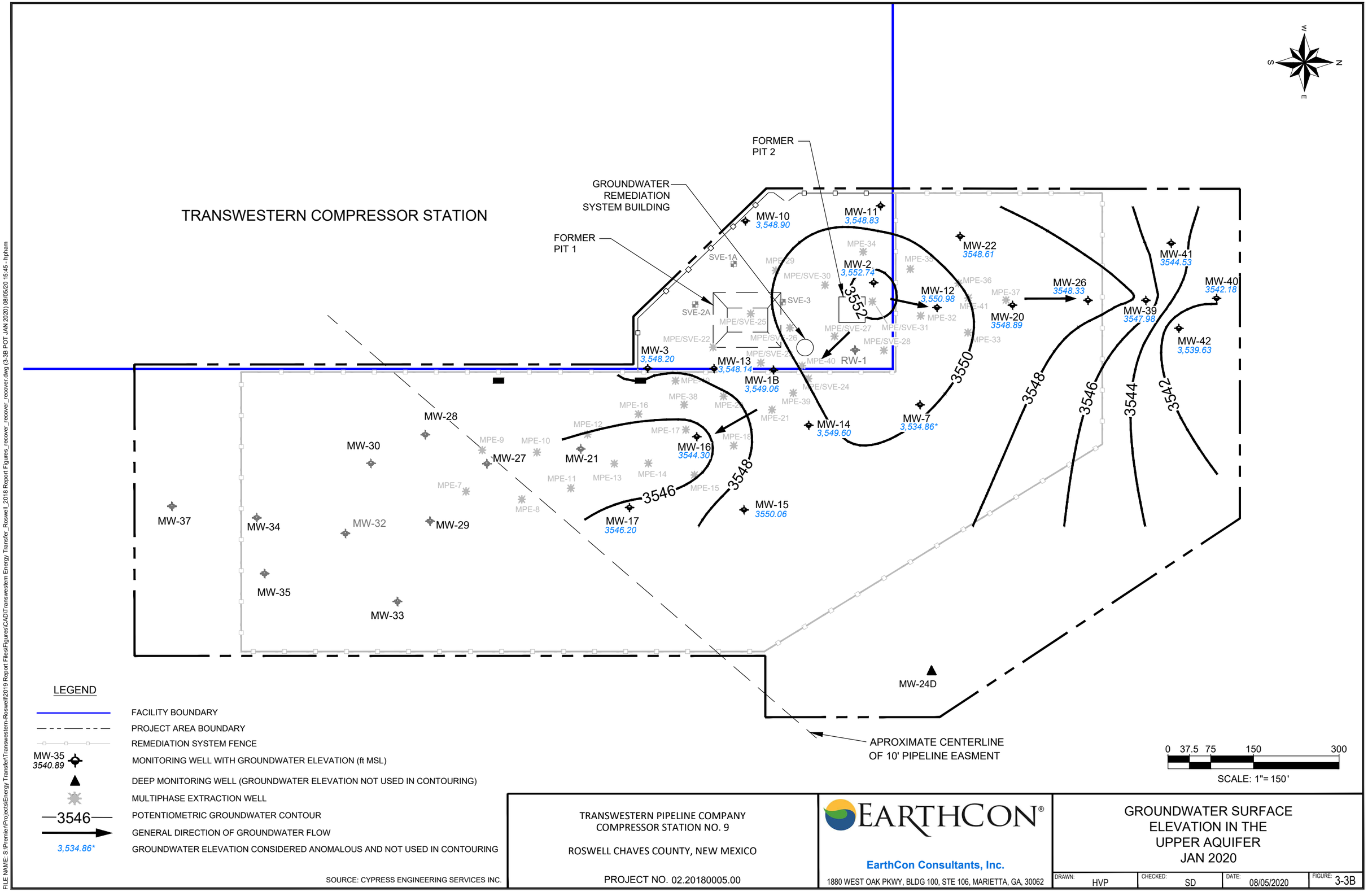

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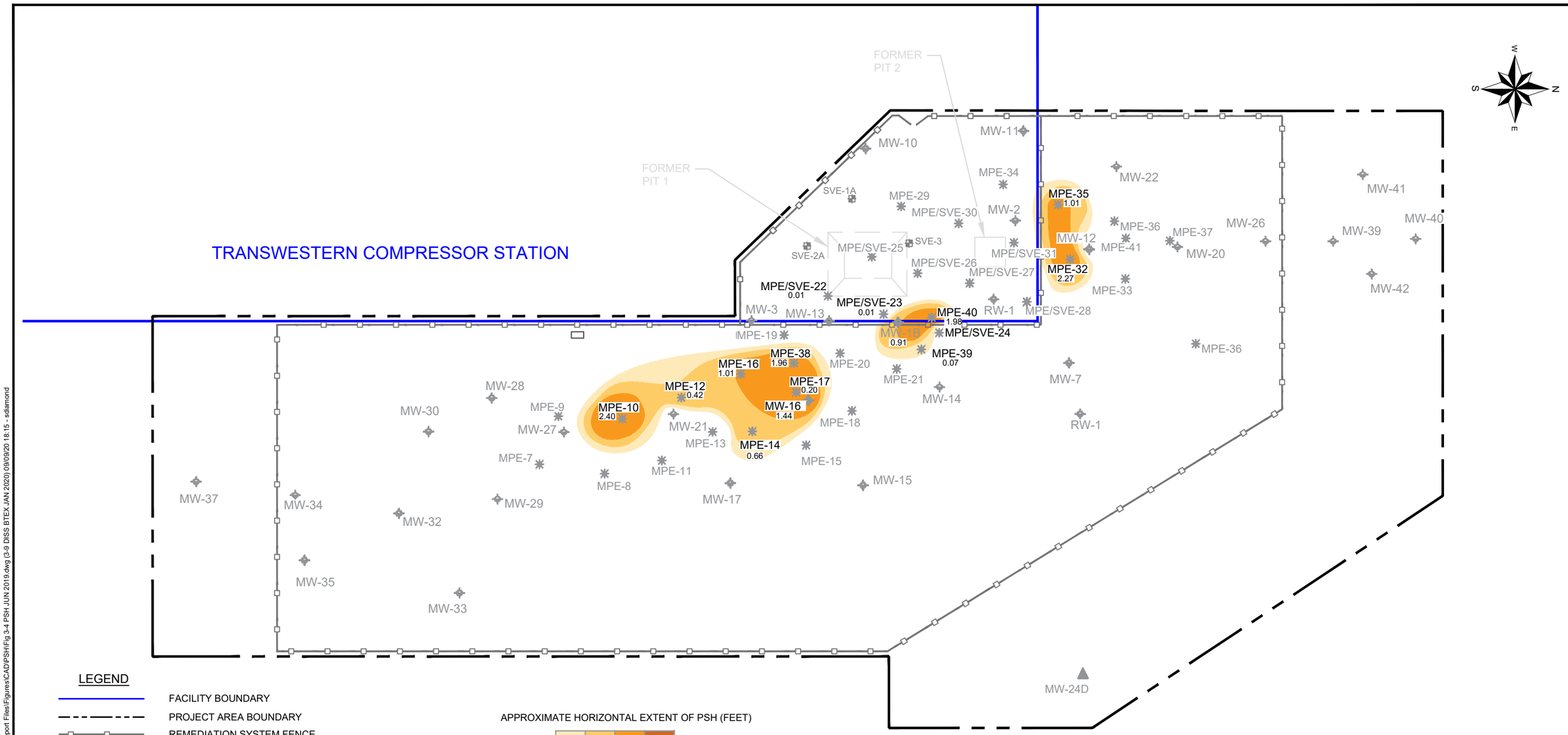

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL
- MPE-31 — MULTIPHASE EXTRACTION WELL
- MPE/SVE-27 — MPE WELL CO-LOCATED WITH SVE WELL
- MW-24D — DEEP WELL IN DEEP AQUIFER
- 0.01 — PSH THICKNESS IN FEET (FT)

APPROXIMATE HORIZONTAL EXTENT OF PSH (FEET)

0.01 0.1 1.0 5.0 and above

NOTES:
1. PSH - PHASE SEPARATED HYDROCARBONS.
2. PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.
3. PSH DETECTED IN MPE/SVE-22 AND 23 CLUSTERS WAS OBSERVED IN WELL SVE-22 AND SVE-23, WHICH WAS INSTALLED AT SHALLOW DEPTHS (PERCHED AQUIFER).
4. PSH THICKNESS FOR MPE-17 NOT CONSIDERED FOR 0.1FT AND 0.01FT CONTOUR DUE THE PSH THICKNESS IN MW-16.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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DISTRIBUTION OF PSH IN THE UPPER AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
SD	SD	8/6/2020	3-4

FILE NAME: \\10.0.10.34\Garnet\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\PSH\Fig 3-4 PSH JUN 2019.dwg (3-9 DISS BTEX JAN 2020) 09/09/20 18:15 - sdiamond

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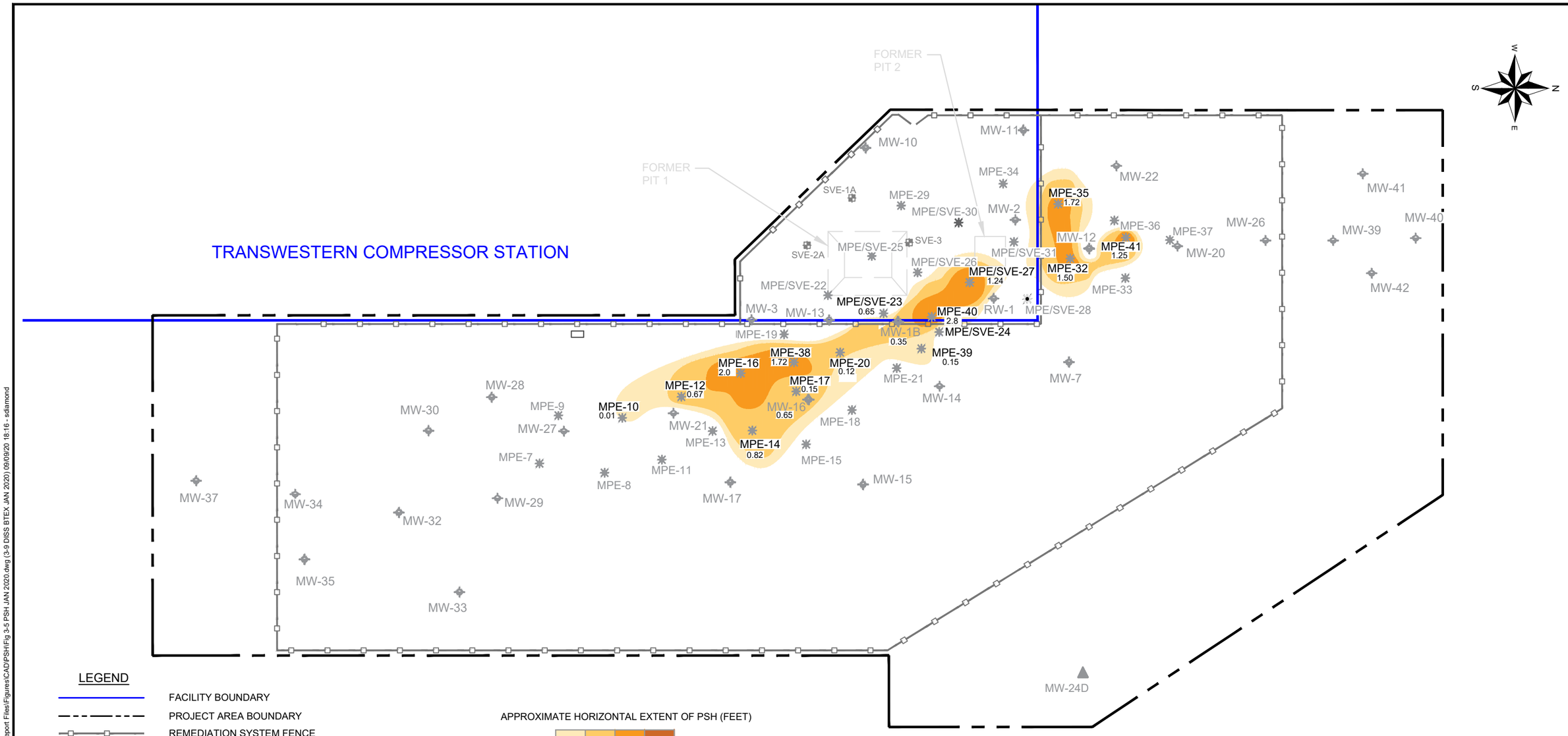

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL
- MPE-31 — MULTIPHASE EXTRACTION WELL
- MPE/SVE-27 — MPE WELL CO-LOCATED WITH SVE WELL
- MW-24D — DEEP WELL IN DEEP AQUIFER
- 0.01 — PSH THICKNESS IN FEET (FT)

APPROXIMATE HORIZONTAL EXTENT OF PSH (FEET)

0.01 0.1 1.0 5.0 and above

NOTES:
1. PSH - PHASE SEPARATED HYDROCARBONS.
2. PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.
3. PSH DETECTED IN MPE/SVE-23 CLUSTER WAS OBSERVED IN WELL SVE-23, WHICH WAS INSTALLED AT SHALLOW DEPTHS (PERCHED AQUIFER).

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

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DISTRIBUTION OF PSH IN THE UPPER AQUIFER JANUARY 2020

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SD	SD	8/6/2020	3-5

FILE NAME: \\10.0.10.34\Garnet\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\PSH\Fig 3-5 PSH JAN 2020.dwg (3-9 DISS BTEX JAN 2020) 09/09/20 18:16 - sdiamond

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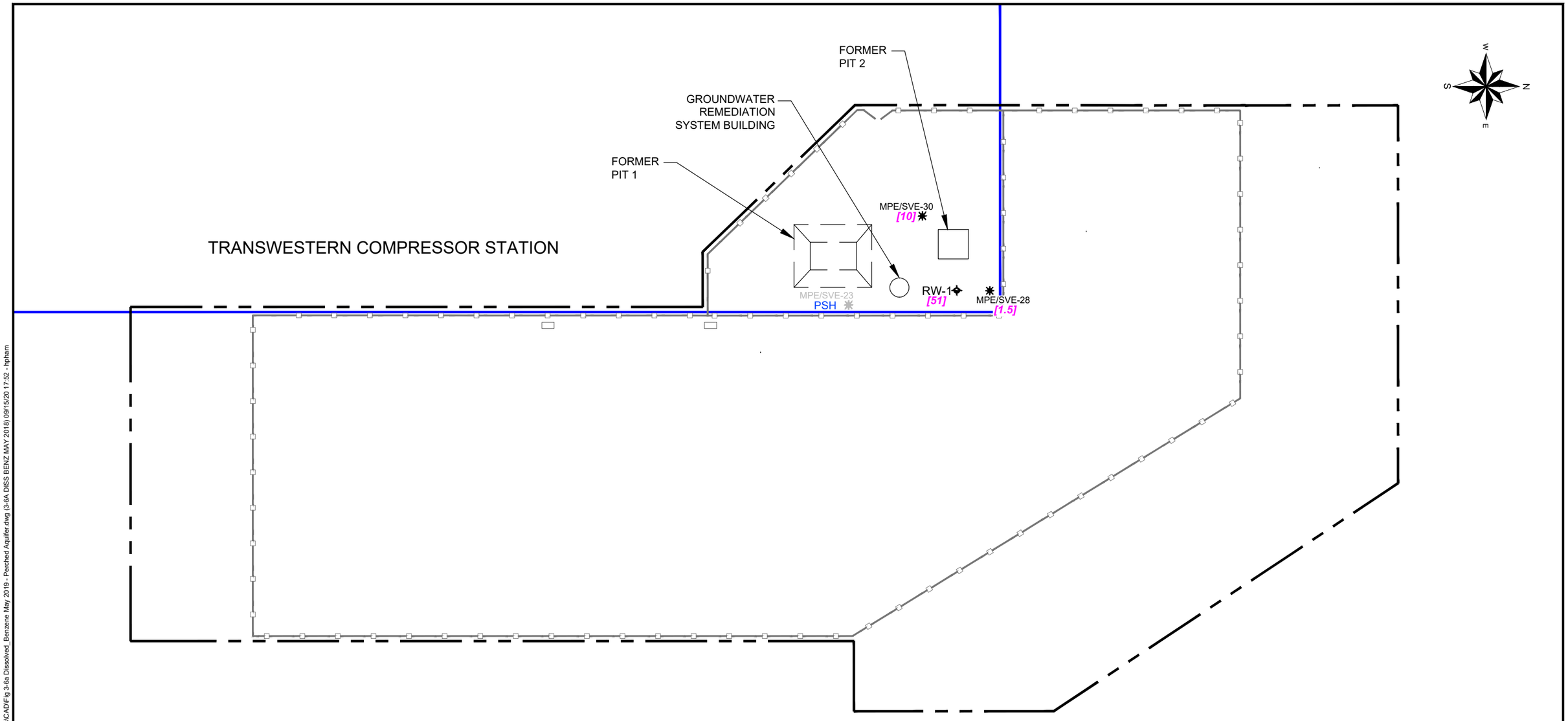

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MONITORING WELL
- MULTIPHASE EXTRACTION WELL
- MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- [50] BENZENE CONCENTRATION (ug/L)
- PSH PSH DETECTED

NOTES:
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELLS NOT SHOWN.
- RESULTS SHOWN FOR MPE/SVE CO-LOCATED WELLS ARE ASSOCIATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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DISTRIBUTION OF DISSOLVED BENZENE PERCHED AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	09/14/2020	3-6a

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-6a Dissolved_Benzene May 2019 - Perched Aquifer.dwg (3-6A DISS BENZ MAY 2018) 09/15/20 17:52 - hpham

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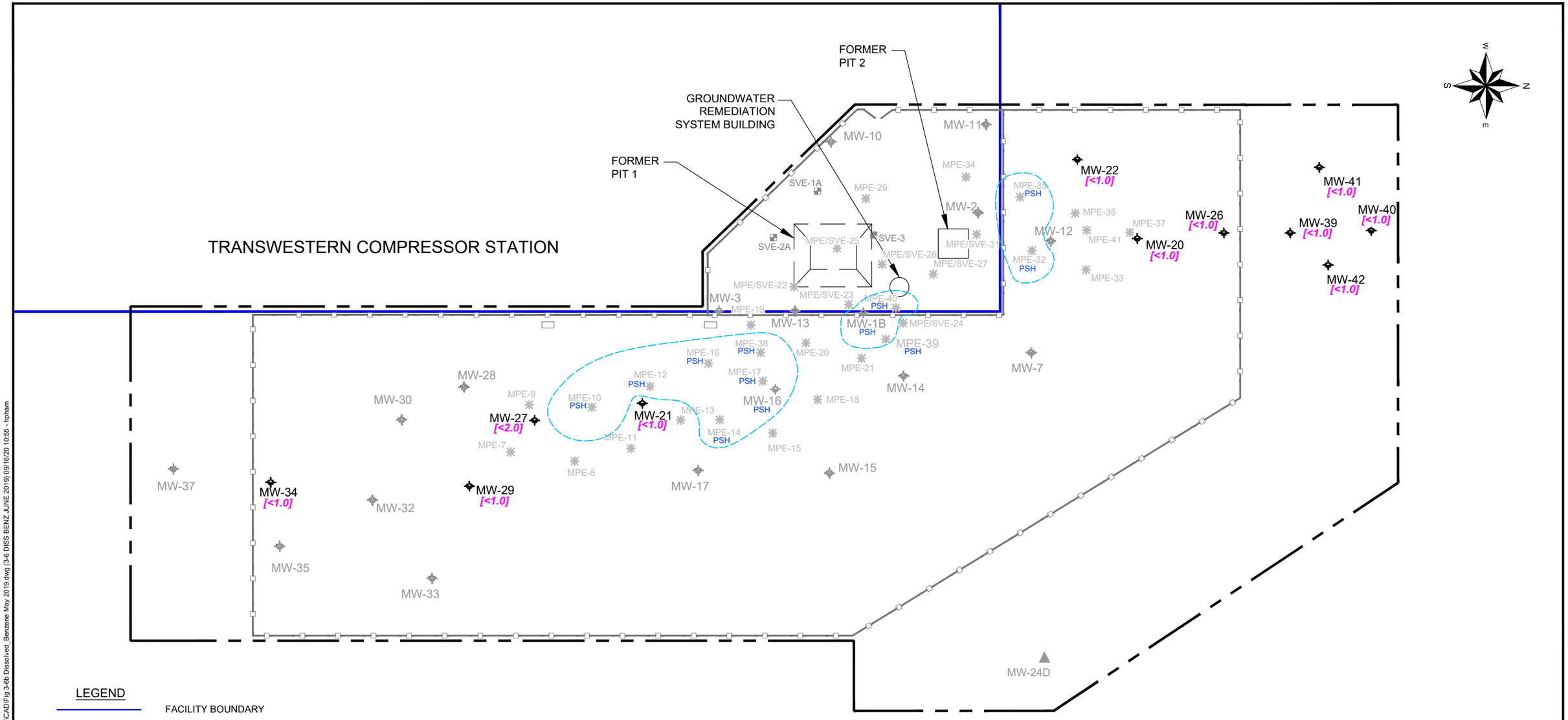

LEGEND

	FACILITY BOUNDARY
	PROJECT AREA BOUNDARY
	REMEDIATION SYSTEM FENCE
MW-37	MONITORING WELL
MPE-31	MULTIPHASE EXTRACTION WELL
MW-30	MONITORING WELL (NOT SAMPLED)
SVE-1A	SVE WELL (NOT SAMPLED)
MPE-15	MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
MPE/SVE-27	MPE WELL CO-LOCATED WITH SVE WELL
MPE/SVE-26	MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
MW-24D	DEEP WELL IN DEEP AQUIFER (NOT SAMPLED)
	APPROXIMATE HORIZONTAL EXTENT OF PSH
[<1.0]	BENZENE CONCENTRATION (ug/L)
PSH	PSH DETECTED

NOTES:
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELLS NOT SHOWN.
- RESULTS SHOWN FOR MPE/SVE CO-LOCATED WELLS ARE ASSOCIATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

EARTHCON®

EarthCon Consultants, Inc.
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED BENZENE UPPER AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	09/152020	3-6b

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-6b Dissolved_Benzene May 2019.dwg (3-6 DISS BENZ JUNE 2019) 09/16/20 10:55 - hpham

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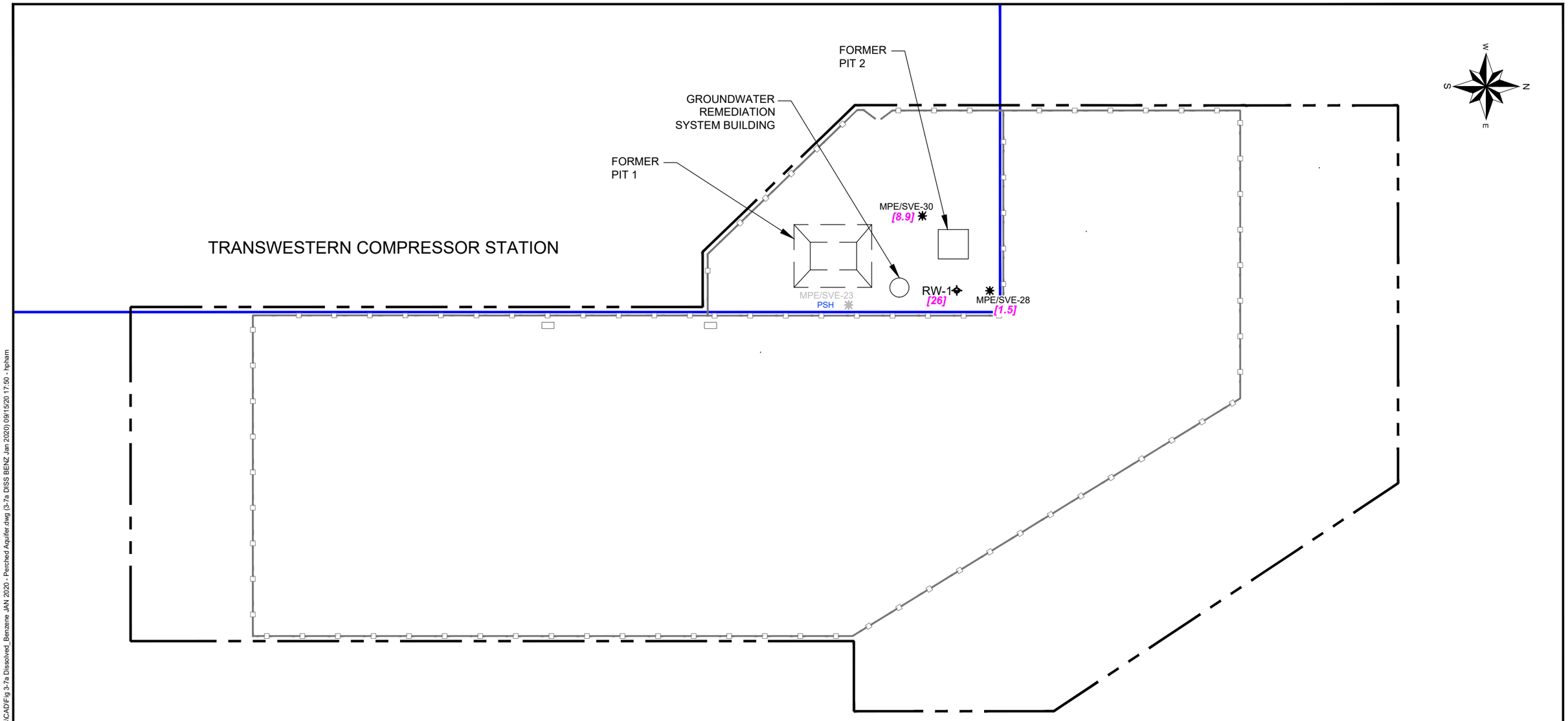

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MONITORING WELL
- MULTIPHASE EXTRACTION WELL
- MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- [26] BENZENE CONCENTRATION (ug/L)
- PSH PSH DETECTED

NOTES:
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELLS NOT SHOWN.
- RESULTS SHOWN FOR MPE/SVE CO-LOCATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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DISTRIBUTION OF DISSOLVED BENZENE PERCHED AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	9/14/2020	3-7a

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-7a Dissolved_Benzene_JAN 2020 - Perched Aquifer.dwg (3-7a DISS BENZ Jan 2020) 09/15/20 17:50 - hpham

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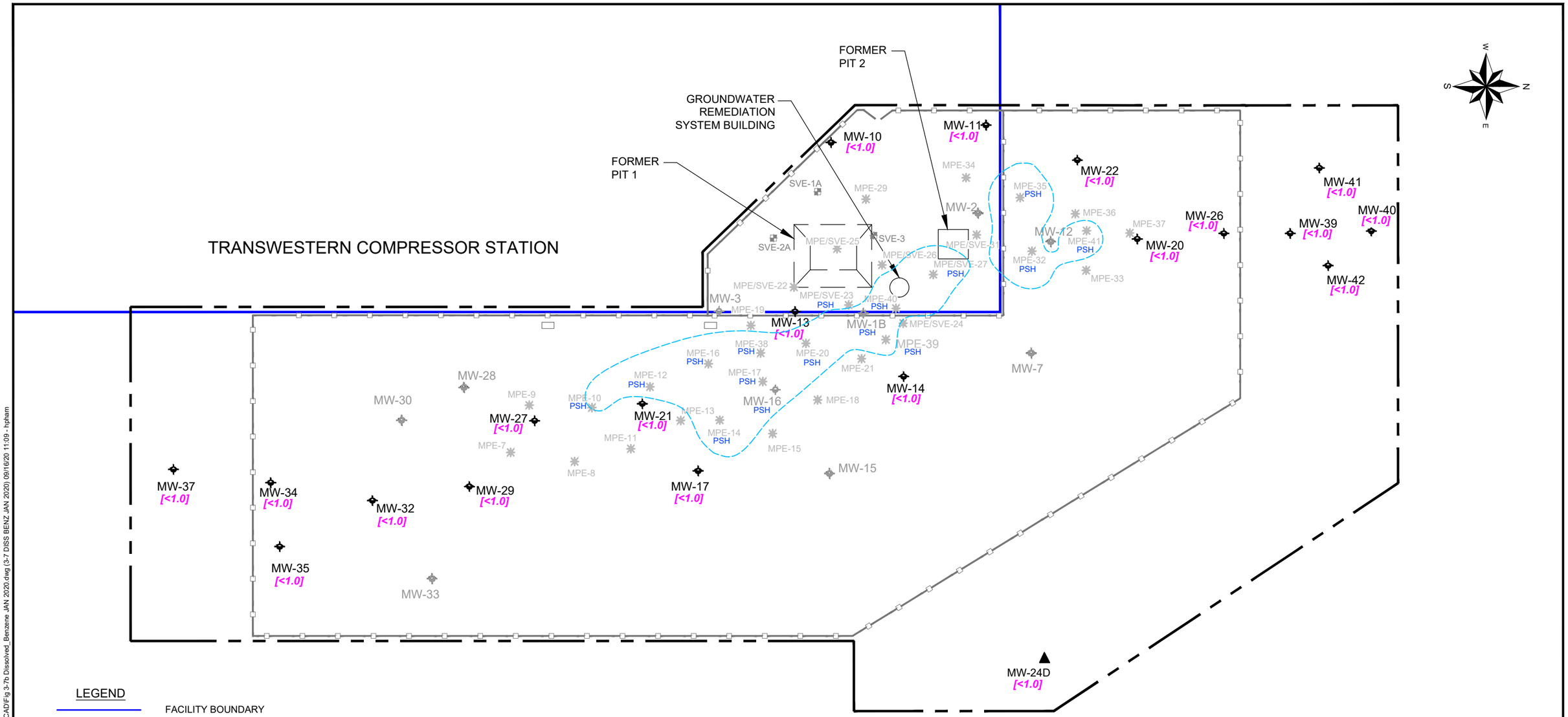

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL
- MPE-31 — MULTIPHASE EXTRACTION WELL
- MW-30 — MONITORING WELL (NOT SAMPLED)
- SVE-1A — SVE WELL (NOT SAMPLED)
- MPE-15 — MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- MPE/SVE-27 — MPE WELL CO-LOCATED WITH SVE WELL
- MPE/SVE-26 — MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
- MW-24D — DEEP WELL IN DEEP AQUIFER
- APPROXIMATE HORIZONTAL EXTENT OF PSH
- [<1.0] — BENZENE CONCENTRATION (ug/L)
- PSH — PSH DETECTED

SOURCE: CYPRESS ENGINEERING SERVICES INC.

NOTES:
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELLS NOT SHOWN.

1. RESULTS SHOWN FOR MPE/SVE CO-LOCATED WITH SVE SAMPLES.
2. MW-27, MW-29, MW-32, MW-34, MW-35, AND MW-37 WERE SAMPLED IN NOVEMBER 2019.
3. MW-10, MW-11, AND MW-17 WERE SAMPLED IN FEBRUARY 2020.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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DISTRIBUTION OF DISSOLVED BENZENE UPPER AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	09/15/2020	3-7b

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-7b Dissolved_Benzene_JAN 2020.dwg (3-7 DISS BENZ JAN 2020) 09/16/20 11:09 - hpham

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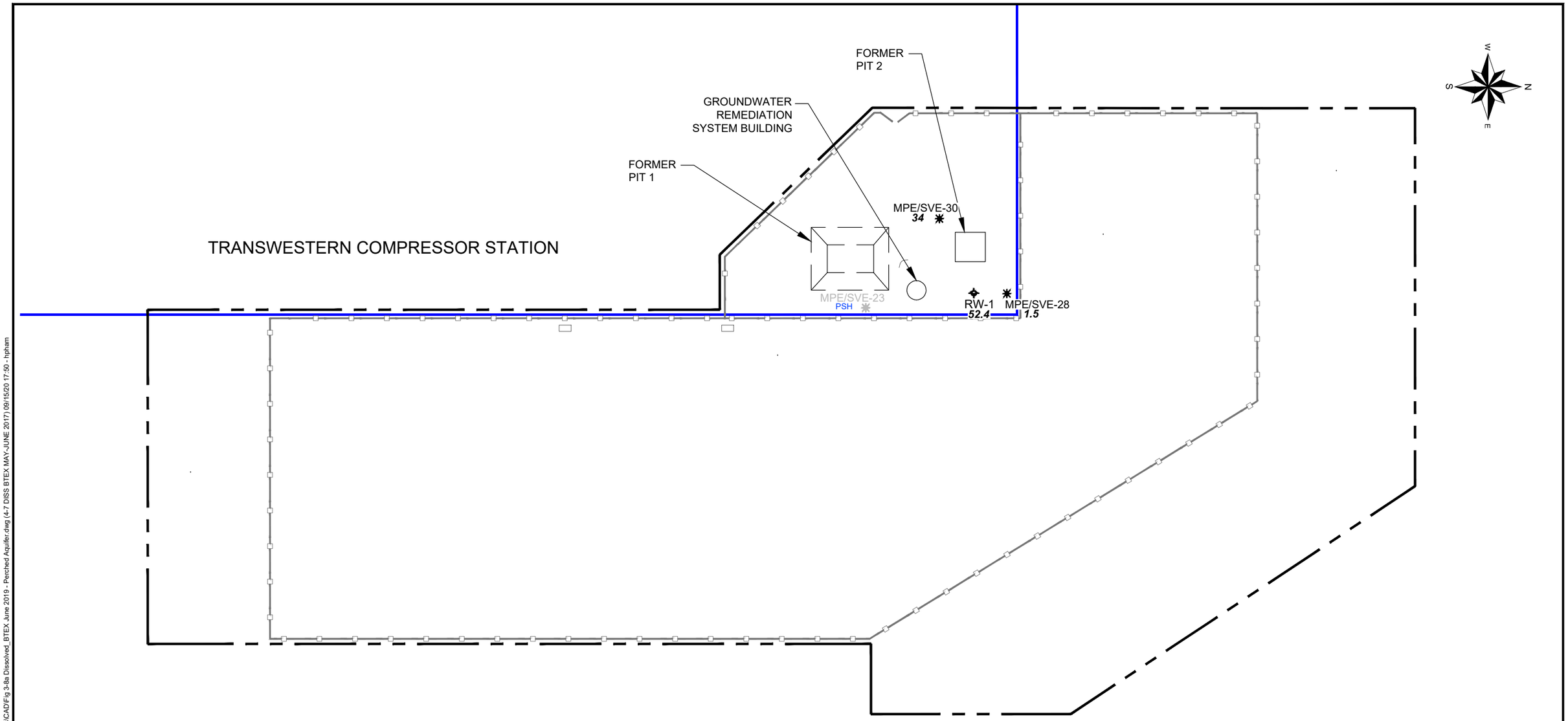

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MONITORING WELL
- MULTIPHASE EXTRACTION WELL
- MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- 52.4 — BTEX CONCENTRATION (ug/L)
- PSH — PSH DETECTED

NOTES:
- BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES.
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN
- RESULTS SHOWN FOR MPE/SVE CO-LOCATED WELLS ARE ASSOCIATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED BTEX PERCHED AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	9/14/2020	3-8a

FILE NAME: S:\Permian\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-8a Dissolved_BTEX June 2019 - Perched Aquifer.dwg (4-7 DISS BTEX MAY-JUNE 2017) 09/15/20 17:50 - hpham

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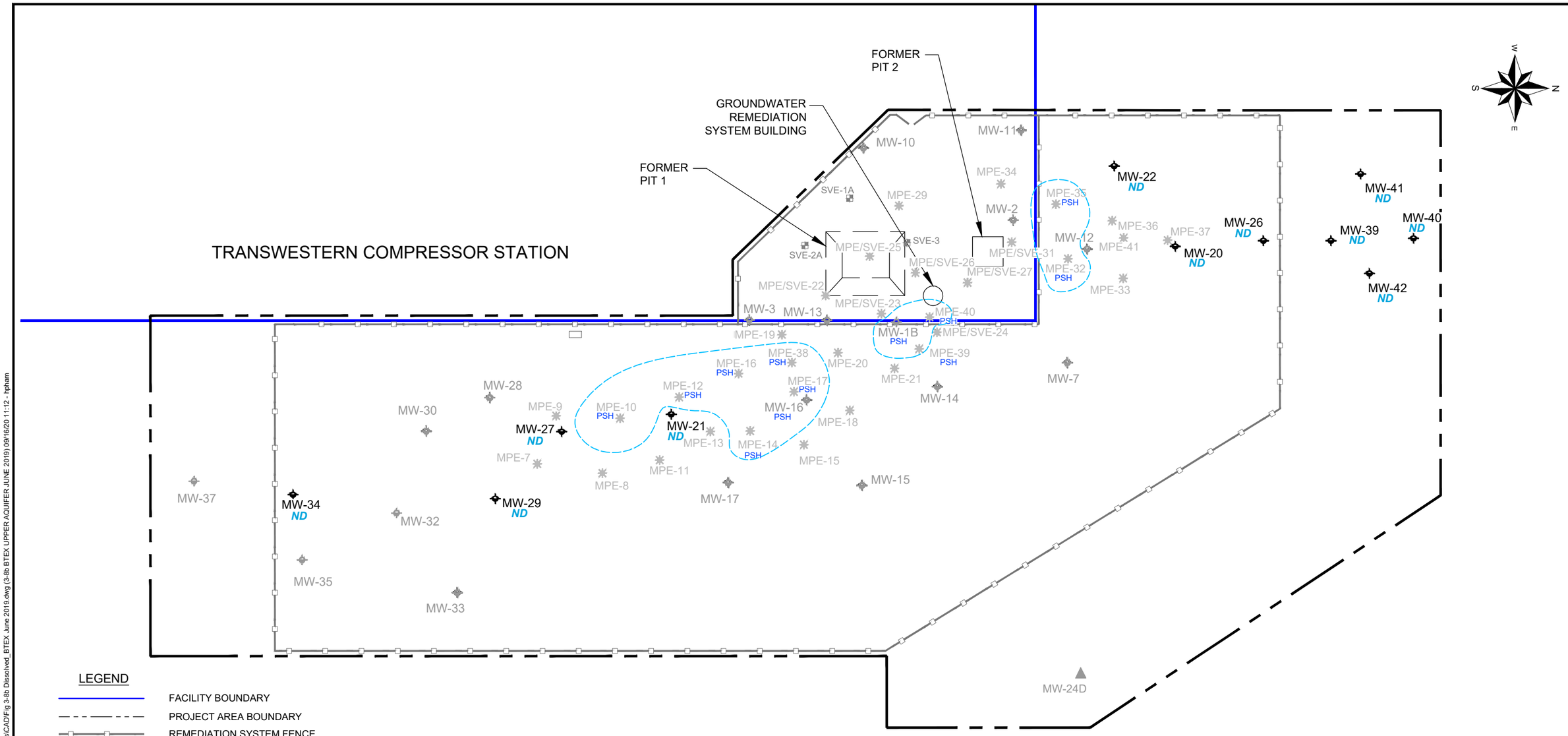

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL
- MPE-31 — MULTIPHASE EXTRACTION WELL
- MW-30 — MONITORING WELL (NOT SAMPLED)
- SVE-1A — SVE WELL (NOT SAMPLED)
- MPE-15 — MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- MPE/SVE-27 — MPE WELL CO-LOCATED WITH SVE WELL
- MPE/SVE-26 — MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
- MW-24D — DEEP WELL IN DEEP AQUIFER (NOT SAMPLED)
- APPROXIMATE HORIZONTAL EXTENT OF PSH
- ND — NOT DETECTED
- PSH — PSH DETECTED

SOURCE: CYPRESS ENGINEERING SERVICES INC.

NOTES:
- BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES.
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN
- RESULTS SHOWN FOR MPE/SVE CO-LOCATED WELLS ARE ASSOCIATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED BTEX UPPER AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	09/15/2020	3-8b

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-8b Dissolved_BTEX_June 2019.dwg (3-8b BTEX UPPER AQUIFER JUNE 2019) 09/16/20 11:12 - hpham

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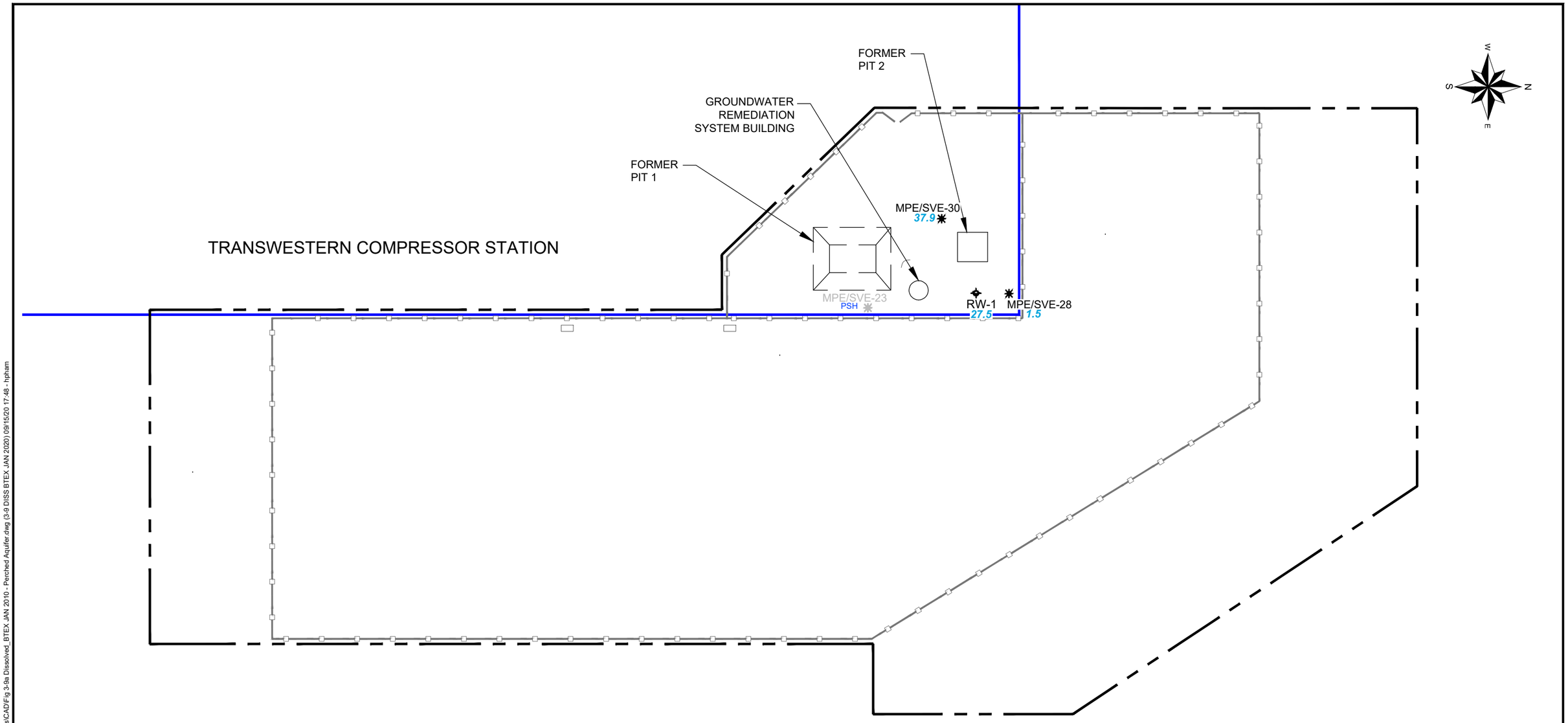

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MONITORING WELL
- MULTIPHASE EXTRACTION WELL
- MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
- 37.9 — BTEX CONCENTRATION (ug/L)
- PSH — PSH DETECTED

NOTES:
- BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES.
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.
- RESULTS SHOWN FOR MPE/SVE CO-LOCATED WITH SVE SAMPLES.

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

EARTHCON®

EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED BTEX PERCHED AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	9/15/2020	3-9a

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-9a Dissolved_BTEX_JAN 2010 - Perched Aquifer.dwg (3-9 DISS BTEX JAN 2020) 09/15/20 17:48 - hpham

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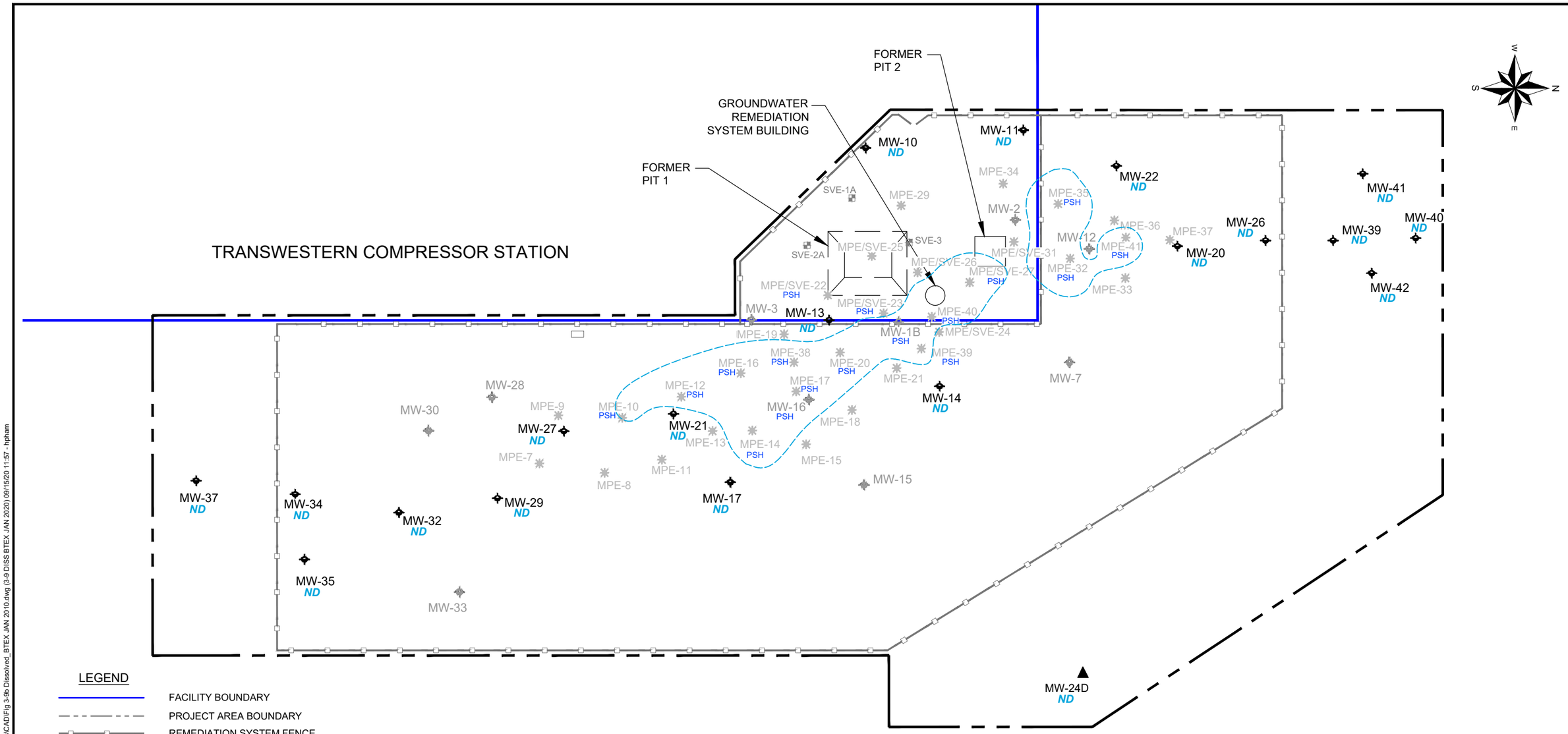

LEGEND

———	FACILITY BOUNDARY
— - — - —	PROJECT AREA BOUNDARY
—□—□—	REMEDIATION SYSTEM FENCE
MW-37	MONITORING WELL
MPE-31	MULTIPHASE EXTRACTION WELL
MW-30	MONITORING WELL (NOT SAMPLED)
SVE-1A	SVE WELL (NOT SAMPLED)
MPE-15	MULTIPHASE EXTRACTION WELL (NOT SAMPLED)
MPE/SVE-27	MPE WELL CO-LOCATED WITH SVE WELL
MPE/SVE-26	MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED)
MW-24D	DEEP WELL IN DEEP AQUIFER
- - - - - - - -	APPROXIMATE HORIZONTAL EXTENT OF PSH
ND	NOT DETECTED
PSH	PSH DETECTED

NOTES:
- BTEX - BENZENE, TOLUENE, ETHYLBENZENE, XYLENES.
- PSH - PHASE SEPARATED HYDROCARBONS.
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.

1. RESULTS SHOWN FOR MPE/SVE CO-LOCATED WITH SVE SAMPLES.
2. MW-27, MW-29, MW-32, MW-34, MW-35, AND MW-37 WERE SAMPLED IN NOVEMBER 2019.
3. MW-10, MW-11, AND MW-17 WERE SAMPLED IN FEBRUARY 2020.

SOURCE: CYPRESS ENGINEERING SERVICES INC.

0 37.5 75 150 300

SCALE: 1"= 150'

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED BTEX UPPER AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	09/15/2020	3-9b

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-9b Dissolved_BTEX_JAN 2010.dwg (3-9 DISS BTEX JAN 2020) 09/15/20 11:57 - hpham

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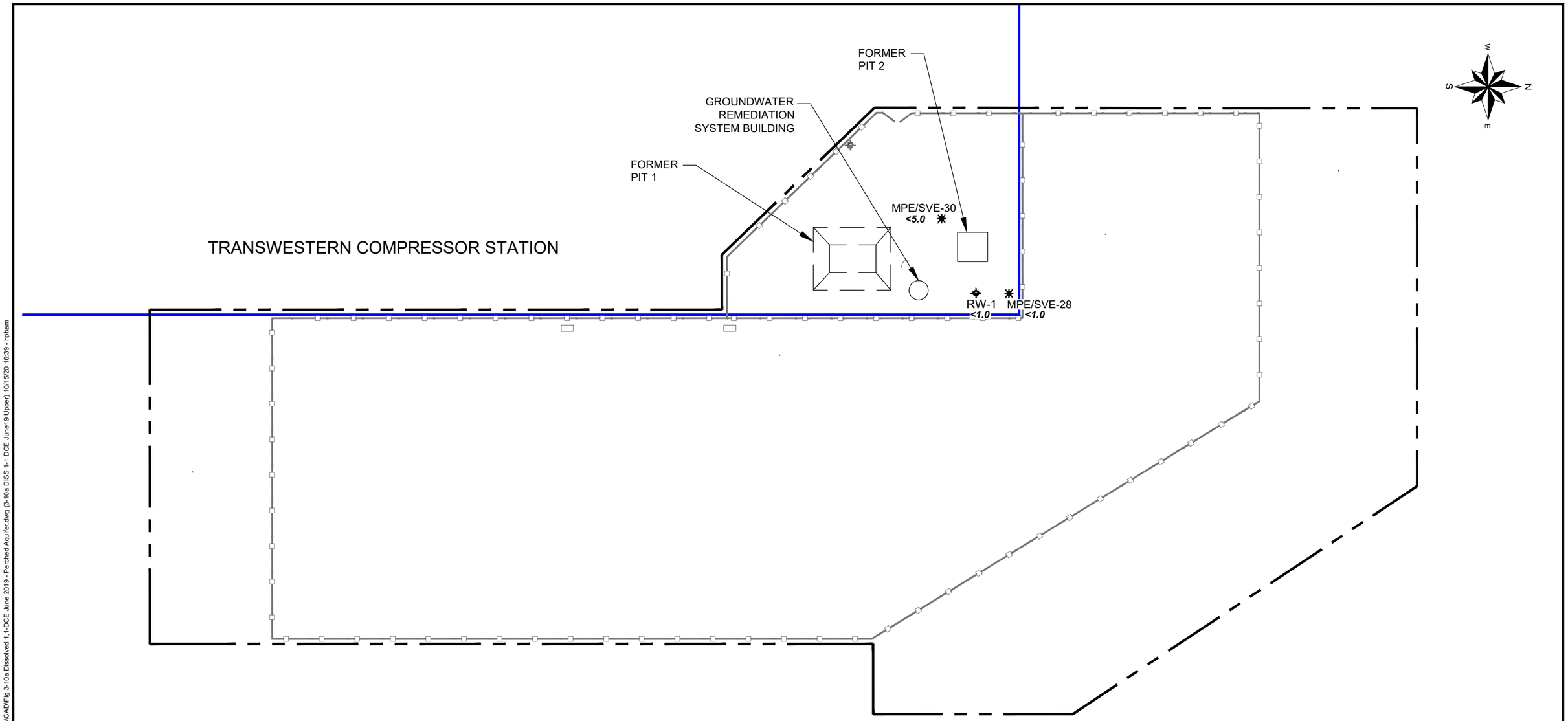

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- RW-1 — MONITORING WELL
- MPE/SVE-28 — MPE WELL CO-LOCATED WITH SVE WELL
- *<5.0* — 1,1-DCE DETECTED (ug/L)

NOTES:
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.
- CONCENTRATION MEASURED IN MICROGRAMS PER LITER (ug/L)

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

EARTHCON®

EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED 1,1-DCE IN THE PERCHED AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	10/15/2020	3-10a

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-10a Dissolved 1,1-DCE June 2019 - Perched Aquifer.dwg (3-10a DISS 1-1 DCE June19 Upper) 10/15/20 16:39 - hpham

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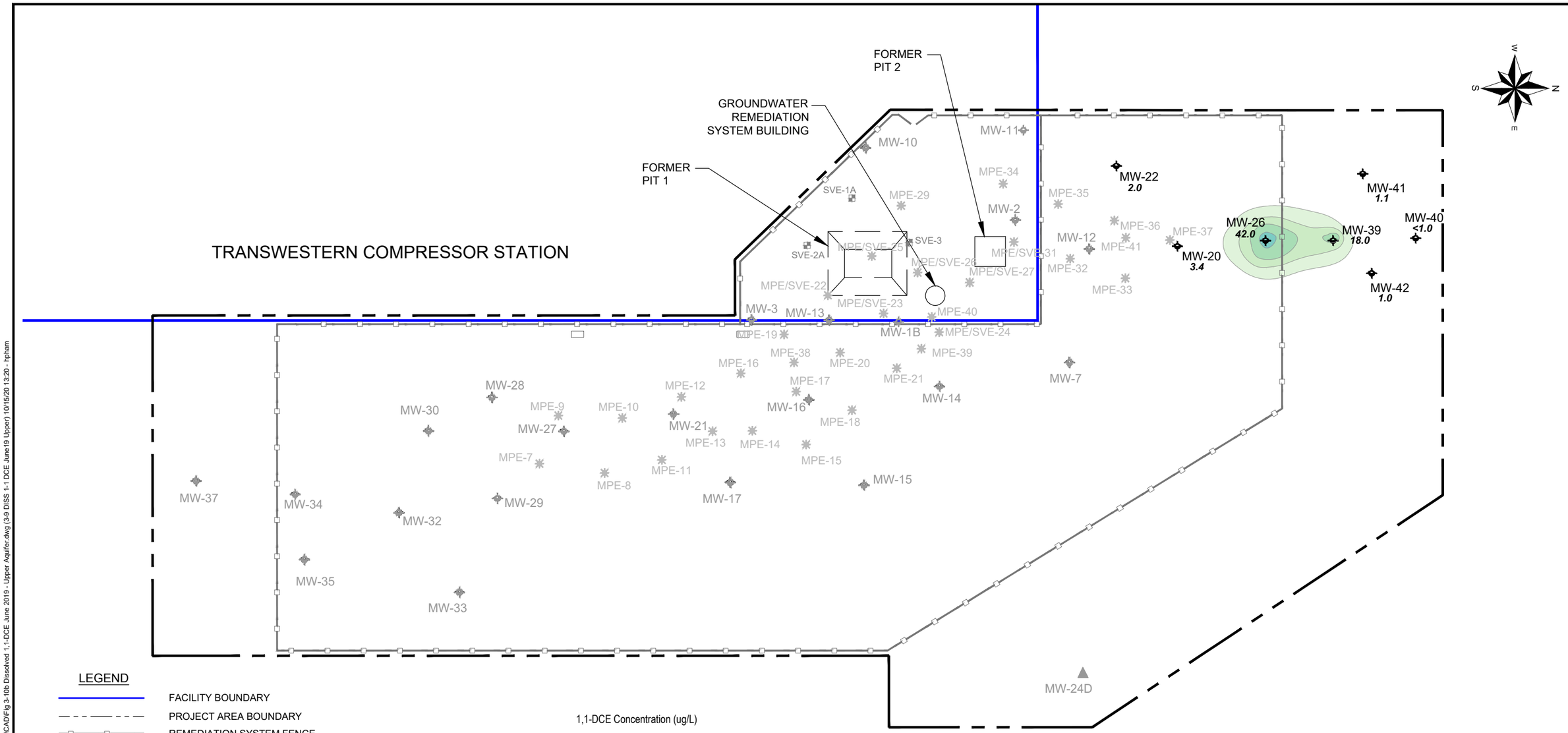

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL WITH DETECTED CONCENTRATION
- MW-30 — MONITORING WELL (NOT SAMPLED/ NOT ANALYZED)
- SVE-1A — SVE WELL (NOT SAMPLED/ NOT ANALYZED)
- MPE-15 — MULTIPHASE EXTRACTION WELL (NOT SAMPLED/ NOT ANALYZED)
- MPE/SVE-26 — MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED/ NOT ANALYZED)
- MW-24D — DEEP WELL IN DEEP AQUIFER
- ***42.0*** — 1,1-DCE DETECTED (ug/L)

1,1-DCE Concentration (ug/L)

5 10 15 25 50 100 250 500 750 1000

NOTES:
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.
- CONCENTRATION MEASURED IN MICROGRAMS PER LITER (ug/L)

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

EARTHCON®

EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED 1,1-DCE IN THE UPPER AQUIFER JUNE 2019

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	10/15/2020	3-10b

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-10b Dissolved 1,1-DCE June 2019 - Upper Aquifer.dwg (3-9 DISS 1-1 DCE June19 Upper) 10/15/20 13:20 - hpham

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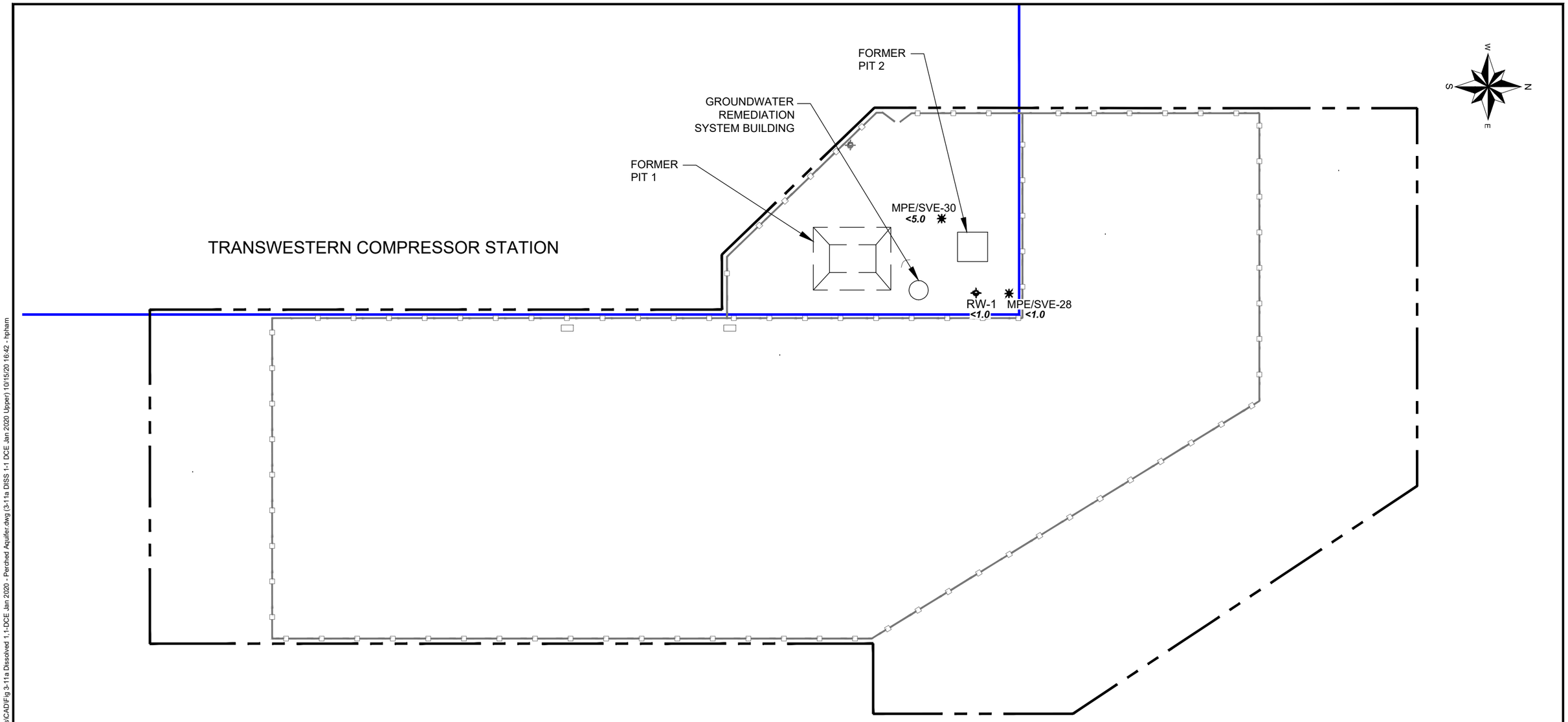

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- RW-1 — MONITORING WELL
- MPE/SVE-28 — MPE WELL CO-LOCATED WITH SVE WELL
- *<5.0* — 1,1-DCE DETECTED (ug/L)

NOTES:
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.
- CONCENTRATION MEASURED IN MICROGRAMS PER LITER (ug/L)

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

EARTHCON®

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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED 1,1-DCE IN THE PERCHED AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	10/15/2020	3-11a

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-11a Dissolved 1,1-DCE Jan 2020 - Perched Aquifer.dwg (3-11a DISS 1-1 DCE Jan 2020 Upper) 10/15/20 16:42 - hpham

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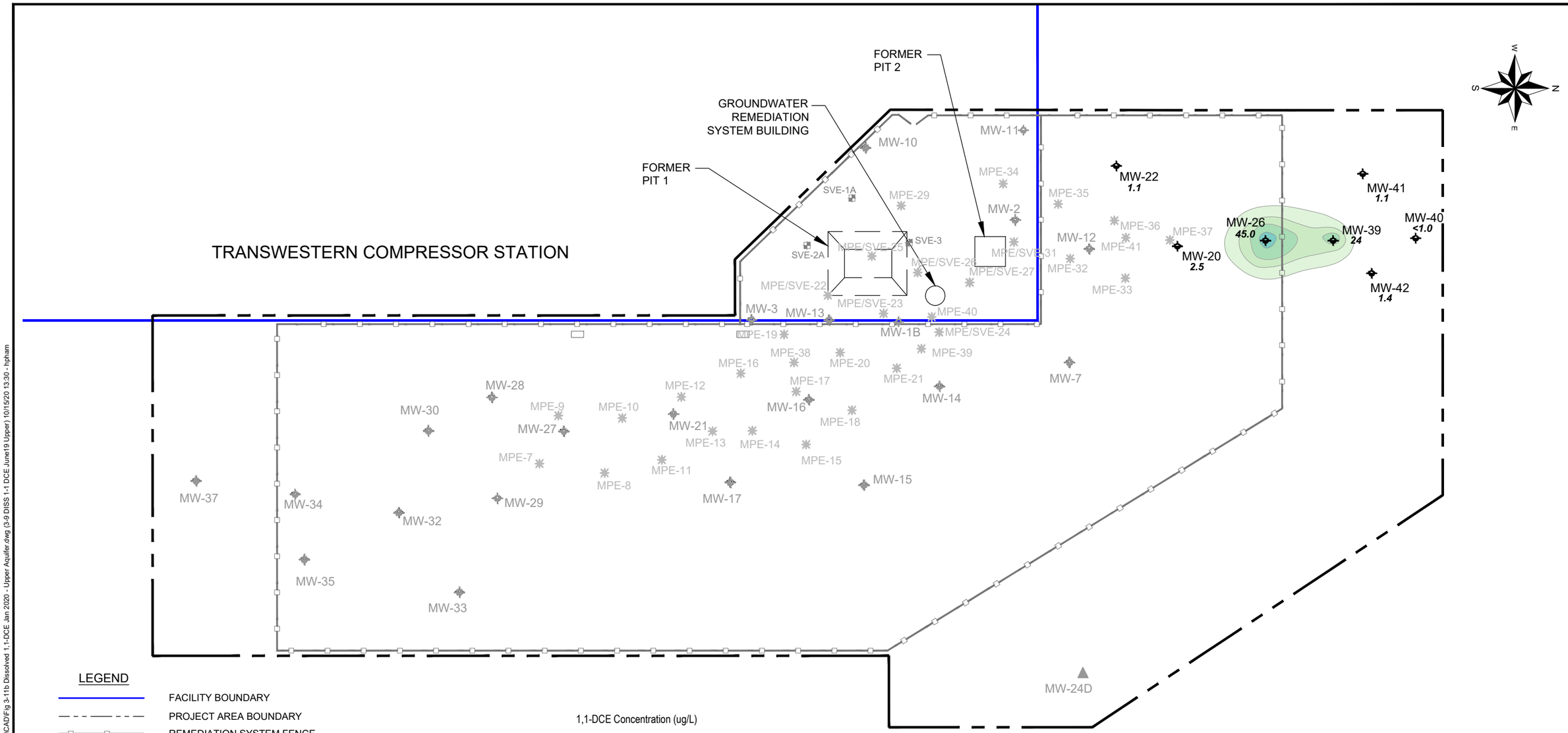

LEGEND

- FACILITY BOUNDARY
- PROJECT AREA BOUNDARY
- REMEDIATION SYSTEM FENCE
- MW-37 — MONITORING WELL WITH DETECTED CONCENTRATION
- MW-30 — MONITORING WELL (NOT SAMPLED/ NOT ANALYZED)
- SVE-1A — SVE WELL (NOT SAMPLED/ NOT ANALYZED)
- MPE-15 — MULTIPHASE EXTRACTION WELL (NOT SAMPLED/ NOT ANALYZED)
- MPE/SVE-26 — MPE WELL CO-LOCATED WITH SVE WELL (NOT SAMPLED/ NOT ANALYZED)
- MW-24D — DEEP WELL IN DEEP AQUIFER
- ***42.0*** — 1,1-DCE DETECTED (ug/L)

1,1-DCE Concentration (ug/L)

5 10 15 25 50 100 250 500 750 1000

NOTES:
- PLUGGED AND ABANDONED MONITORING/ MULTI-PHASE EXTRACTION WELL NOT SHOWN.
- CONCENTRATION MEASURED IN MICROGRAMS PER LITER (ug/L)

0 37.5 75 150 300

SCALE: 1"= 150'

SOURCE: CYPRESS ENGINEERING SERVICES INC.

TRANSWESTERN PIPELINE COMPANY
COMPRESSOR STATION NO. 9

ROSWELL CHAVES COUNTY, NEW MEXICO

PROJECT NO. 02.2018005.00

EARTHCON®
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1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

DISTRIBUTION OF DISSOLVED 1,1-DCE IN THE UPPER AQUIFER JANUARY 2020

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SD	10/15/2020	3-11b

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2019 Report Files\Figures\CAD\Fig 3-11b Dissolved 1,1-DCE Jan 2020 - Upper Aquifer.dwg (3-9 DISS 1-1 DCE June19 Upper) 10/15/20 13:30 - hpham

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APPENDICES

Received by OCD: 10/21/2022 8:37:26 AM

Location TWP Roswell Station Date 06/23/19

Project / Client GW Monitoring 2019

Earthcon By: Cmes

Environmental & Geological Services

Inc. Page 1 of 5

Calibrated YSI 556 MPS

Serial # 05F2274AL

Conductivity: Calitech 500 mL

1413 us/cm @ 25°C

Expires: 09/04/2019

Initial: 1.437 MS/cm @ 0930

Final: 1.413 mS/cm @ @ 0930 @ 22.10°C

PH 7.0: Calitech 500 mL pH 7.0c

25°C Expires: 06/23/19

Initial: 7.78 pH @ 22.10°C

Final: 7.00 pH @ 22.10°C

PH 4.0: Calitech 500 mL pH 4.0

@ 25°C Expires: 07/03/19

Initial: 3.34 pH @ 22.05°C

Final: 4.00 pH @ 22.06°C

ORP: Aurical 500 mL ORP

100 mv. Expires: 09/17/19

Initial: 151.0 mV ORP @ 21.90°C

Final: 100.0 mV ORP @ 21.97°C

D.O: 8.30 mg/L ambient air

Initial: 5.32 mg/L @ 22.10°C

Final: 8.31 mg/L @ 22.10°C

TWP Roswell Station 9 Date 06/23/19

Project / Client GW Monitoring 2019

Earthcon Consultants Inc. By: Cmes

Page 2 of 5

Well #	DNAPL	DTW	T.D.	Thickness
MW-37	0	59.54	—	—
MW-34	0	64.51	T.S.	6.93
MW-35	0	61.63	76.70	—
MW-32	0	67.84'	—	—
MW-30	0	67.62'	—	—
MW-29	0	69.99	T.390	1.87 ft.
MW-28	0	70.68	—	—
MPE-7	0	68.53	—	—
MPE-8	0	56.48'	—	—
MW-27	0	69.43'	T5.0	2.67
MPE-9	0	68.75	—	—
MW-33	0	65.95'	—	—
MPE-11	0	64.48'	—	—
MPE-10	66.50	68.90	* 2.4' NAPL *	
MW-17	0	63.05	—	—
MPE-13	0	65.55	Strong odor on probe	
MW-21	0	66.60	T5	4.03
MPE-12	65.75	66.17	* 0.42' NAPL	
MPE-14	65.42	66.08	* 0.66' NAPL	
MPE-16	67.84	68.85	* 1.01' NAPL	
MPE-15	0	64.50'	—	—

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Location Twp Rosa Sta. 9 Date 06/24/19

Project / Client GW Monitoring 2019

Easting By: OMS Page 4 of 5

Well	Depth	DTW	TD	Comments
MPE-17	66.90	67.10		* 0.2' Napl
MW-16	66.96	68.40		* 1.44' Napl
MPE-38	67.58	69.54		* 1.96 Napl
MPE-19	Ø	66.33'	—	— —
MW-9	Ø	63.42	—	— —
MW-15	Ø	61.14'	—	— —
MPE-20	Ø	64.23	64.0	Sus
MPE-21	Ø	60.45'	—	— —
MPE 39 20	60.78	60.85'		* 0.07' Napl
SVE 23	Ø	Ø	28.60	— —
MPE-24	Ø	Ø	59.27'	— —
MW-14	Ø	55.88	—	— —
MW-7	Ø	62.93'	—	— —
MPE-32	57.03	59.30'		* 2.27' Napl *
MPE 33	Ø	52.67'	—	— —
MW-26	Ø	44.77	65.0	7.31 —
MW 20	Ø	52.0	64.0	5.76 —
MPE 37	Ø	51.55	—	— —
MPE 41	* Coil not read -			Coil not pull pump *
MW-12	Ø	55.38	—	— —
MPE 36	Ø	53.97	—	— —
MPE-35	58.14	59.15		* 1.01' Napl *

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Location Twp Rosa Sta. 9 Date 06/24/19

Project / Client GW Monitoring 2019

Easting By: OMS Page 4 of 5

Well	Depth	DTW	TD	Comments
MW-22	Ø	57.35	64.95	Silt
MW-3	Ø	63.45'	—	—
SVE 22	32.74'	32.75		* 0.01' Napl
MPE-22	Ø	68.16	—	— —
MPE-26	Ø	62.64'	—	— —
SVE-24	Ø	Ø	32.60	
SVE 23	* Snake in well Napl *			
MPE 23	63.55	63.56		* 0.01' Napl *
MW-13	Ø	65.15	—	— —
MW-18	61.27'	63.18		* 0.91' Napl *
MPE-40	61.37	63.35		* 1.98' Napl *
SVE-19	Ø	Ø	29.60	Dry
SVE-20	Ø	Ø	29.60	Dry
SVE-3	Ø	Ø	66.65	Dry
MW-24D	Ø	61.91	—	—
MW-42	Ø	54.29'	75.85	10.59
MW-39	Ø	46.97	70.11	10.14
MW-40	Ø	53.20	70.13	8.12
MW-41	Ø	56.85	70.06	6.34
MW-10	Ø	69.85'	—	—
MW-11	Ø	61.15'	—	—
MW-2	Ø	59.78	—	—

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Location TWP Roswell Station 9 Date 06/24/19

Project / Client SW Monitoring 2019

Ensolum By: Ames Pg 5 of 5

Well	Phase	DTW	TD	SCV	Remarks
MPE 31	Ø	63.98	—	—	—
SVE 31	Ø	Ø	35.13	—	—
MPE 28	Ø	56.69	—	—	—
SVE 29	Ø	28.97	34.80	3.79	
RW-1	Ø	53.57	4165	15-2	4" well
SVE-30	Ø	42.52	44.0	0.71	
MPE 33	Ø	66.03	—	—	—
MPE 34	Ø	68.30	—	—	—
MPE 27	Ø	↓ Sheen in well			
MPE 32	Ø	52.95	—	—	—
MPE 34	Ø	64.75			

PL TX, NM

Date

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GROUNDWATER SAMPLING LOG

SITE NAME: Transwestern Roswell Station	SITE LOCATION: 6381 North Main Street Roswell NM	
WELL NO: MW-34	SAMPLE ID: MW-34	DATE: 06/24/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 49 feet to 79 feet	STATIC DEPTH TO WATER (feet): 64.51	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

Top Pump 67.13' = (67.13 feet – 64.51 = 11.24 feet) X 0.16 gallons/foot = 1.79 gallons

3 WELL VOLUMES = 75.75 gallons 5.39 Gallons = 3CV

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0907	PURGING ENDED AT: 0936	TOTAL VOLUME PURGED (gallons): 5.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0907	0	Initial	0.20	64.51	7.07	21.32	3.449	6.81	-35.3 / 52.6	Clear	None
0915	1.0	1.0	0.20	—	6.88	19.77	3.437	0.77	-27.6 / 46.2	Turbid	None
0920	2.0	2.0	0.20	—	6.85	19.79	3.438	0.62	-25.5 / -15.1	"	"
0926	3.0	3.0	0.20	—	6.82	19.88	3.431	0.58	-24.2 / -23.7	"	"
0931	4.0	4.0	0.20	—	6.81	19.93	3.428	0.52	-23.2 / -27.7	"	"
0936	5.50	5.50	0.20	—	6.79	19.92	3.426	0.47	-22.0 / -30.1	"	"

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Burnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0937	SAMPLING ENDED AT: 0942
PUMP OR TUBING DEPTH IN WELL (feet): 67.0 / 67.13	TUBING MATERIAL CODE: PP PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N/replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-34	3	CG	40mL	HCl	120mL	6.79	BTEX 8260	BP	0.20
MW-34 Duplicate	3	CG	40mL	HCl	120mL	6.79	BTEX 8260	BP	0.20

REMARKS: YSI 556 MPS Serial # 05F2274AL
I.P. Solonist Serial # 1212-100

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; (PP) = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station # 9	SITE LOCATION: 6381 N Main St. Roswell, NM 88201
WELL NO: MW-29	SAMPLE ID: MW-29
DATE: 06/24/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet	STATIC DEPTH TO WATER (feet): 69.99	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (feet – 3.91 feet) X 0.16 gallons/foot = 0.62 gallons

3 WELL VOLUMES = 73.90 gallons 69.99 0.96

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable) 3CV = 1.87 = gallons + (gallons/foot X feet) + 11:00 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:02	PURGING ENDED AT: 10:02	TOTAL VOLUME PURGED (gallons): 2 Gallon

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:05	Initial	0	0.045	69.99	6.94	21.17	2.987	6.77	-31.6 / -46.2	Clear	None
10:20	0.50	0.50	0.045	—	6.73	20.58	3.142	6.78	-18.1 / -42.6	Clear	None
10:31	1.0	1.0	0.045	—	6.69	20.71	3.197	1.16	-13.5 / -130.2	"	"
10:44	1.5	1.5	0.045	—	6.70	20.96	3.208	0.84	-16.1 / -141.0	"	"
11:00	2.00	2.0	0.045	—	6.70	21.02	3.209	0.79	-16.1 / -142.4	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Burchill, PP	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:00	SAMPLING ENDED AT: 11:02
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ___ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	GG	40mL	HCL	120 mL	6.70	BTEX/8260	BP	0.045

REMARKS: I.P. Solonist Serial # 122-100

MATERIAL CODES: (AG) = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N Main St. Roswell, NM 88201		
WELL NO: MW-29	SAMPLE ID: MW-29	DATE: 06/24/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet	STATIC DEPTH TO WATER (feet): 69.99	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (feet – 3.91 feet) X 0.16 gallons/foot = 0.62 gallons

3 WELL VOLUMES = 73.90 gallons 69.99 0.16

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 3EV = 1.87 = gallons + (gallons/foot X feet) + 11.00 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:02	PURGING ENDED AT: 10:02	TOTAL VOLUME PURGED (gallons): 2 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:05	Initial	0	0.045	69.99	6.94	21.17	2.987	0.77	-31.6 / -44.2	Clear	None
10:20	0.50	0.50	0.045	—	6.73	20.58	3.142	0.78	-18.1 / -27.6	Clear	None
10:31	1.0	1.0	0.045	—	6.69	20.71	3.197	1.16	-15.9 / -130.2	"	"
10:44	1.5	1.5	0.045	—	6.70	20.96	3.208	0.84	-16.1 / -141.0	"	"
11:00	2.00	2.0	0.045	—	6.70	21.02	3.209	0.79	-16.1 / -142.4	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Burnhill, PP	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:00	SAMPLING ENDED AT: 11:02
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	GG	40mL	HCL	120 mL	6.70	BTEX/8260	BP	0.045

REMARKS: I.P. Solonist Serial # 122-100

MATERIAL CODES: (AG) = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: Trap Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: Monitor Well #1	SAMPLE ID: MW-21	DATE: 06/24/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 64 feet to 74 feet	STATIC DEPTH TO WATER (feet): 66.60	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (75 feet − 66.60 84 feet) X 0.16 gallons/foot = 1.34 gallons

3 WELL VOLUMES = 4.03 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
68.21	68.21	11:05	11:40	4.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
11:05	0	Initial	0.125	66.60	6.76	20.76	3.184	6.49	-20.0/-103.4	Clear	None
11:13	1	1	0.125	—	6.67	20.38	3.156	6.66	-13.8/-114.0	Clear	None
11:20	2	2	0.125	—	6.68	20.40	3.156	6.68	-14.4/-115.6	"	"
11:30	3	3	0.125	—	6.67	20.68	3.165	6.67	-14.3/-108.2	"	"
11:40	4	4	0.125	—	6.68	20.75	3.168	1.66	-19.5/-110.8	"	Slight Sulfur

INSTRUMENTS USED: YSI 556 MPS Serial # 05F3274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton M Barnhill / PT		11:40	11:43

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
68.21	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-21	3	CG	40mL	HCl	120mL	6.68	BTEX 8260	BP	

REMARKS: Solonist I.P. = Serial # 122-100

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N Main ST. Roswell, NM 88201	
WELL NO: MW-22	SAMPLE ID: MW-22	DATE: 06/25/2019

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: 50 feet to 65 feet	STATIC DEPTH TO WATER (feet): 57.75	PURGE PUMP TYPE OR BAILER: Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.95 feet – 57.75 7.2' feet) X 0.16 gallons/foot = 1.15 gallons

3 WELL VOLUMES = 3.456 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0832	PURGING ENDED AT: 0842	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0832	Initial	0	0.25	57.75	7.45	19.41	3.692	6.58	-61.2/573	Brown	None
0835	1	1	0.25	—	7.13	19.04	3.669	6.61	-42.6/91.6	" "	"
0837	2	2	0.25	—	7.03	19.01	3.685	6.47	-35.9/94.3	Turbid	None
0840	3	3	0.25	—	6.96	18.98	3.686	6.74	-33.2/85.7	Turbid	None
0842	3.5	3.5	0.25	—	6.94	18.96	3.684	6.71	-32.2/96.6	Turbid	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill, GT	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0845	SAMPLING ENDED AT: 0847
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-22	3	CG	40mL	HCL	120 mL	6.94	VOC's 8260	B	0.25
MW-22	3	CG	40mL	HCL	120mL	N/A	VOC's 8260	B	0.25
Equipment Blank @ 0825									

REMARKS: Placed purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-20	SAMPLE ID: MW-20	DATE: 06/25/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 46.8 feet to 61.8 feet	STATIC DEPTH TO WATER (feet): 52.0	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.0 feet – 52.0 feet) X 0.16 gallons/foot = 1.92 gallons

3 WELL VOLUMES = 5.76 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
56.45	56.45	0855	0917	6 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0855	Initial	0	0.285	52.0	6.85	19.23	3.750	6.63	-25.4 / 104.9	Brown Tan 6.10	None
0902	2	2	0.285	—	6.76	18.81	3.797	6.76	101.9	-20.3 / 103.7	
0908	4	4	0.285	—	6.76	18.90	3.797	6.76	-20.2 / 104.3	Clear	None
0917	6	6	0.165	—	6.85	20.17	3.717	6.48	-26.0 / 100.9	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial #05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton McBarnhill, PG		0917	0920

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
~~56~~ 56.45	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-20	3	CG	40mL	HCL	120 mL	6.85	8260 VOC's	BP	0.285

REMARKS: Placed Purged H_2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; P = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME:	TWP Roswell Station #9	SITE LOCATION	6381 N. Main St. Roswell, NM 88201
WELL NO:	MW-26	SAMPLE ID:	MW-26
DATE:	06/25/19		

PURGING DATA

WELL DIAMETER (inches):	2"	TUBING DIAMETER (inches):	1/2"	WELL SCREEN INTERVAL DEPTH:	43 feet to 63 feet	STATIC DEPTH TO WATER (feet):	49.77	PURGE PUMP TYPE OR BAILER:	BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (65.0 feet − 49.77 (15.23) feet) X 0.16 gallons/foot = 2.43 gallons

3 WELL VOLUMES = 7.31 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	56.63'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	56.63'	PURGING INITIATED AT:	0947	PURGING ENDED AT:	10:03	TOTAL VOLUME PURGED (gallons):	7.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0947						19.14					
0940	Initial	0	0.40	49.77	6.91	21.42	3.764	5.25 7.15 - 28%	101.3	Clear	None
0943	2	2	0.40	—	6.87	18.71	3.755	7.38	-27.6/102.2	Clear	None
0948	4	4	0.40	—	6.75	18.85	3.768	6.80	-19.3/103.7	Clear	None
0953	6	6	0.40	—	6.77	18.86	3.740	6.76	-20.4/105.1	Clear	None
10:03	7.50	7.50	0.40	—	6.76	18.90	3.741	6.76	-20.0/104.4	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F227HAL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	Clayton M Barnhill, PE	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	10:03	SAMPLING ENDED AT:	10:05
PUMP OR TUBING DEPTH IN WELL (feet):	56.63'	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-26	3	CG	40mL	HCl	120mL	6.76	VOC's 8260	BP	0.40

REMARKS: Placed purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station # 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201	
WELL NO: MW-42	SAMPLE ID: MW-42	DATE: 06/25/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 54.29'	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.95 feet – 54.29' 21.66 feet) X 0.16 gallons/foot = 3.465 gallons

3 WELL VOLUMES = 10.39 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
64.03'	64.03'	10:25	10:56	10.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:25	Initial	0	0.40	54.29	6.94	18.93	3.789	5.27	-31.5/101.1	clear	None
10:30	2	2	0.40	—	6.82	18.85	3.770	4.52	-24.1/103.4	clear	None
10:35	4	4	0.40	—	6.79	18.89	3.759	4.36	-22.2/104.3	clear	None
10:42	6	6	0.40	—	6.80	18.87	3.747	4.40	-22.3/104.9	clear	None
10:47	8	8	0.40	—	6.79	18.93	4.137	4.10	-24.3/102.6	clear	None
10:56	10.50	10:50	0.40	—	6.78	19.01	~~3.738~~ 3.738	4.12	-21.3/105.7	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton M Barnhill II, PT		10:56	10:11:00

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-42	3	CG	40mL	HCl	120 mL	6.78	VOC's 8260	BP	0.40
MW-42 Duplicate	3	CG	40mL	HCl	120mL	6.78	VOC's 8260	BP	0.40

REMARKS: Placed purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; (CG = Clear Glass); (PE = Polyethylene); PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: Twp Roswell Station 9 | SITE LOCATION: 6381 N. Main St. Roswell, NM 88201

WELL NO: MW-40 | SAMPLE ID: MW-40 | DATE: 06/25/19

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): 1/2" | WELL SCREEN INTERVAL DEPTH: 63 feet to 75 feet | STATIC DEPTH TO WATER (feet): 53.20 | PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.13 feet – 53.20' 16.93' feet) X 0.16 gallons/foot = 2.70 gallons

3 WELL VOLUMES = 8.12 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
62.31	62.31	15:10	15:37	8.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:10	Initial	0	0.286	53.20	7.25	20.62	3.758	4.98	-51.2/46.0	Clear	None
15:17	2	2	0.286	—	6.88	21.24	3.747	4.56	-26.3/83.7	Clear	None
15:22	4	4	0.286	—	6.82	19.94	3.720	5.19	-21.0/86.5	Clear	None
15:30	6	6	0.286	—	6.71	19.76	3.726	5.45	-15.6/86.4	Clear	None
15:37	8.25	8.25	0.286	—	6.73	19.62	3.718	4.99	-15.5/84.0	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2" = 0.010); 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M. Barnhill, PE | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 15:37 | SAMPLING ENDED AT: 15:40

PUMP OR TUBING DEPTH IN WELL (feet): 62.31' | TUBING MATERIAL CODE: PE | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-40	3	CG	40mL	HCL	120 mL	6.73	VOC's 8260	BP	0.286

REMARKS: Placed purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; (CG = Clear Glass); (PE = Polyethylene); PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO: MW-41	SAMPLE ID: MW-41
	DATE: 06/25/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 56.85'	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.06' feet – 56.85' 13.21 feet) X 0.16 gallons/foot = 2.11 gallons

3 WELL VOLUMES = 6.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.49	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.49	PURGING INITIATED AT: 15:58	PURGING ENDED AT: 16:25	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV) ORP	COLOR (describe)	ODOR (describe)
15:58	Initial	0	0.25	56.85	7.11	20.81	3.632	8.32	-42.1/-10.0	Clear	None
16:06	2	2	0.25	~	6.77	20.17	3.629	7.08	-21.2/77.6	Clear	None
16:15	4	4	0.25	~	6.74	20.65	3.645	7.02	-19.2/81.2	Clear	None
16:23	6	6	0.25	~	6.74	20.03	3.631	7.12	-18.9/82.9	Clear	None
16:25	6.50	6.50	0.25	~	6.74	20.02	3.635	7.14	-18.6/83.2	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F3274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:25	SAMPLING ENDED AT: 16:30
PUMP OR TUBING DEPTH IN WELL (feet): 58.49'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-41	3	CG	40mL	HCL	120 mL	6.74	VOC's 8260	BP	0.25

REMARKS: Placed Purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: SVE-30	SAMPLE ID: SVE-30	DATE: 06/26/2019	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 42.52	PURGE PUMP TYPE OR BAILER

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (44.0 feet – 42.52 1.48 feet) X 0.16 gallons/foot = 0.23 gallons

3 WELL VOLUMES = 0.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
				42.52							

No Parameters Taken
Low well Column of water
Sampled Immediately.

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton M Barnhill / CMB		12:45	12:50

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SVE-30	3	CG	40mL	HCL	120mL	N/A	8260 VOCs	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: Twp Roswell Station #9		SITE LOCATION: 6381 N. Main St. Roswell, NM 88201	
WELL NO: SVE -28	SAMPLE ID: SVE -28		DATE: 06/26/2019

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 28.97	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (34.80 feet – 28.97 feet) X 0.16 gallons/foot = 0.93 gallons

3 WELL VOLUMES = 2.79 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
12:25	0	0		28.97		-					
	Well Bails Down – Quickly										
	No Parameters Taken.										

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B = Bailer); BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton McBride/Ensolum	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:25	SAMPLING ENDED AT: 12:30
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SVE 28	3	CG	40mL	HCL	120mL	N/A	8260 VOC's	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG = Clear Glass); (PE = Polyethylene); PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B = Bailer); BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME:	TWP Roswell Station 9	SITE LOCATION:	6381 N. Main St. Roswell, NM 88201
WELL NO:	RW-1	SAMPLE ID:	RW-1
DATE:	06/26/19		

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.57	PURGE PUMP TYPE OR BAILER: 3.5' x 30 poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (41.65 feet – 33.57' feet) X 0.65 gallons/foot = 5.25 gallons

3 WELL VOLUMES = 15.75 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 11:45	PURGING ENDED AT: 12:11	TOTAL VOLUME PURGED (gallons): 16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
11:45	Initial	0	1.0	33.57	7.19	23.24	0.530	2.23	-46.6 / 163.1	clear	Strong
12:00	5	5	1.0	—	6.84	22.21	1.767	2.09	-25.7 / 224.1	Black	Strong
12:05	10	10	1.0	—	6.86	22.28	3.178	1.85	-26.2 / 305.8	"	"
12:10	15	15	1.0	—	6.83	21.93	3.433	0.76	-24.8 / 326.7	Black	Strong
12:11	16	16	1.0	—	6.83	21.91	3.439	0.65	-24.7 / -329.2	Black	Strong

INSTRUMENTS USED: YSI 556 MPS Serial # 05F227YAL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:11	SAMPLING ENDED AT: 12:15
Clayton M Barnhill / CMB			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
RW-1	3	CG	40mL	HCL	120 mL	6.53	8260 VOC'S	B	1.0
RW-1 Equipment Bailer Rinsate @11:45	3	CG	40mL	HCL	120 mL	N/A	8260 VOC's	B	1.0

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: Octr

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N Main St. Roswell, NM 88201
WELL NO: MW-39	SAMPLE ID: MW-39
	DATE: 06/26/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 48.97	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.11 feet – 48.97' feet) X 0.16 gallons/foot = 3.38 gallons

3 WELL VOLUMES = 10.14 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.0'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.0'	PURGING INITIATED AT: 10:45	PURGING ENDED AT: 11:16	TOTAL VOLUME PURGED (gallons): 10.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:45	Initial	0	0.285	48.97'	6.83	19.97	3.710	8.11	-24.8/85.4	Grey Turbid	None
10:50	2	2	0.285	—	6.68	19.12	3.714	7.47	-15.6/93.9	Turbid	None
10:57	4	4	0.285	—	6.63	19.12	3.710	7.32	-11.4/98.4	Clear	None
11:04	6	6	0.285	—	6.59	19.12	3.732	6.36	-9.1/103.4	Clear	None
11:11	8	8	0.285	—	6.59	19.23	3.720	5.80	-9.1/104.5	clear	None
11:16	10.25	10.25	0.285	—	6.67	19.03	3.715	4.64	-13.2/101.3	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial #05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2") = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:16	SAMPLING ENDED AT: 11:19
PUMP OR TUBING DEPTH IN WELL (feet): 64.0'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-39	3	CG	40mL	HCl	120mL	6.67	8260 VOC's	BP	0.285
MW-39 Duplicate	3	CG	40mL	HCl	120 mL	6.67	VOC's 8260	BP	0.285

REMARKS: Placed Purge H2O in on-site Drums

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Jordon French
Mailing Address: 1880 West Oak Parkway #106
Marietta, Ga. 30062
Phone #: 770. 973. 2100 Ext. 2892
email or Fax#: Jfrench@earthcon.
QA/QC Package: JHaines@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Earth Con Trans Western Pipline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, PE
Sampler: Cm Barnhill PE
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF):

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	8260 BTEX
6/24/19	0937	H_2O	MW-34	3x 40mL VOAs	HCL									X			X
6/24/19	0937	H_2O	MW-34 Duplicate											X			X
6/24/19	11:00	H_2O	MW-29											X			X
6/24/19	11:40	H_2O	MW-21											X			X
6/25/19	0845	H_2O	MW-22											X			
6/25/19	0825	H_2O	MW-22 Boiler equipment Rinsate											X			
6/25/19	0917	H_2O	MW-20											X			
6/25/19	10:03	H_2O	MW-26											X			
6/25/19	10:56	H_2O	MW-42											X			
6/25/19	10:56	H_2O	MW-42 Duplicate											X			
6/25/19	15:37	H_2O	MW-40											X			
6/25/19	16:25	H_2O	MW-41											X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/26/19	1500					
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: ANY Questions? Please Call CmB @ 575.626.16[illegible]

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

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 11/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc
ATTN: JORDON French
Mailing Address: 1880 West Oak Parkway #106
Marietta, GA 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: JFrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____
Project Name: EarthCon Transwestern Pipeline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, P.E.
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature:

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) Full List	8270 (Semi-VOA)	Air Bubbles (Y or N)
6/26/19	11:16	H_2O	MW-39	3x 40mL VOA's	HCl											X		
6/26/19	11:16	H_2O	MW-39 Duplicate													X		
6/26/19	12:11	H_2O	RW-1													X		
6/26/19	12:11	H_2O	RW-1 equipment rinsate Bailer													X		
6/26/19	12:25	H_2O	SVE-28															
6/26/19	12:45	H_2O	SVE-30															
			TRIP Blank	2x 40mL VOA's	HCl													

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/26/19	1500				
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: ANY Questions ? Please Call CMB @ 575.626.1615

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

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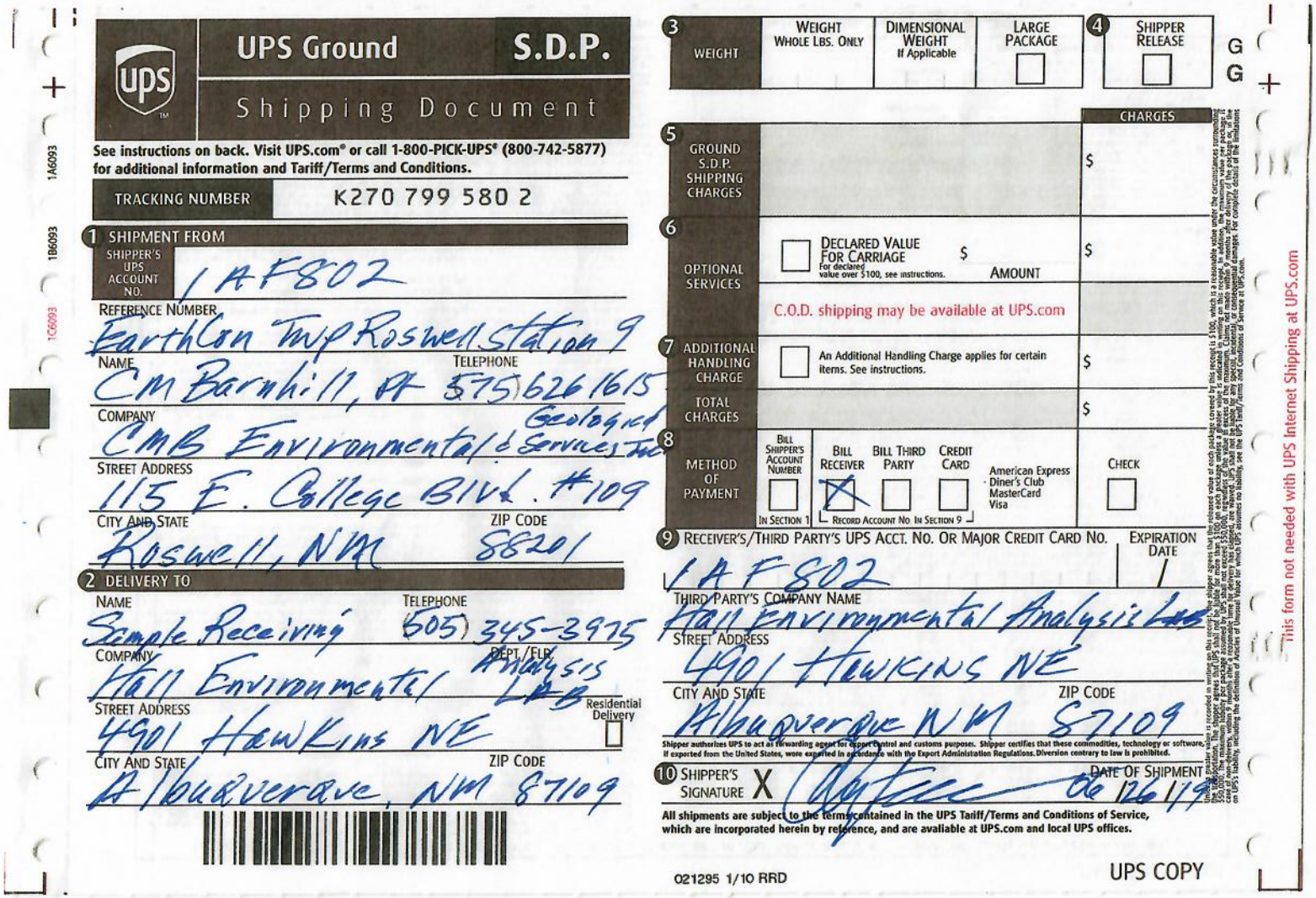

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1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO.: 1AF802

REFERENCE NUMBER: EarthCon Twp Roswell Station 9

NAME: CM Barnhill, PE — TELEPHONE: 575 626 1615

COMPANY: CMB Environmental & Geological Services Inc.

STREET ADDRESS: 115 E. College Blvd. #109

CITY AND STATE: Roswell, NM — ZIP CODE: 88201

2 DELIVERY TO

NAME: Sample Receiving — TELEPHONE: (505) 345-3975

COMPANY: Hall Environmental Analysis Lab — DEPT./FLR.

STREET ADDRESS: 4901 Hawkins NE — Residential Delivery ☐

CITY AND STATE: Albuquerque, NM — ZIP CODE: 87109

3 WEIGHT | WEIGHT WHOLE LBS. ONLY | DIMENSIONAL WEIGHT If Applicable | LARGE PACKAGE ☐ | 4 SHIPPER RELEASE ☐

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5 GROUND S.D.P. SHIPPING CHARGES		$
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ROSWELL

✓ 1. EVALUATE PSH LEVELS
MPE-40
MPE-38 & MW-16

✓ 2. Evaluate TOC elevation for MW-7

✓ 3. REVIEW DTW IN SVE WELLS TO ASSESS PERCH AQUIFER.

✓ 4 EVALUATE VAPOR READINGS FROM WELL

✓ 5. EVALUATE PUMPS OPERATION IN MPE WELLS

WELL	DRW TD	DTW	DTP		
SVE-3	61.66	DRY			
SVE-1A	29.66	DRY			
SVE-2A	29.86	29.74'	DRY CONDENSATE Left		
SVE-22	- DROP BAILER - NO PSH INSIDE BUT BAILER COATED				
SVE24	28.59	Dry			
SVE-26	32.60	DRY			
SVE-27	34.10	33.78'	- Condensate left		
	* THE IP is being coated w/ Black Residual thick oil substance NOT LIQUID Gives A false positive took pictures				
SVE-28	34.85	28.93	POSSIBLE RAIN WATER INTRUSION		
SVE-31	33.13	DRY			
SVE-30	44.0	42.15			
8:58	BAILED OUT WATER				
	44.0	43.16			
RW-1	41.63	33.51			
943 SVE22	—	33.50	33.80		
946 SVE-25	32.80	DRY			

	WELL	TD	DTW	
1010	SVE30		42.94	re gauged
	MPE 20	—	64.32	
		→	69.00 TOP OF PUMP	
	MPE 38		69.55	67.46 DTP
			Pulled pump	
1093	MPE38		70.15	67.85 2.2

PUMP DEPTH 70.68' PUMP INLET TO TOP OF WELL CAP *MEASURED OFF OF ROPE

TOTAL LENGTH CAP TO PUMP BOTTOM 73.80'

			DTW	DTP
1137	MPE-38		69.55	67.55
1225	collect sample			
1229	MPE-38		71.14	71.14
			TOP OF INLET 71.14	
1243	MW-16		68.25	66.78
	collected sample			
1310	MPE16		67.60	66.30

Pump Depth 71.13' From Pump inlet to Top of Cap
74.55 From Pump bottom to " " Cap

1318 MPE-16 DTW 68.95 (WITHOUT Pump) DTP - 67.75

1333 MPE-16 DTW 62.70 (TOOK BAILER SAMPLE) DTP - 66.65

1359 MPE-40 DTW - 63.70 DTP 61.59 2.11

1515 MPE-40 Pump Length - 69.40 from inlet to pump

TD - 73.1 DTW - 64.55 DTP - 63.62

Pump OFF Product

1550 MPE-40 DTW - 69.62 DTP - 0

TURNED pump off to RECHARGE TO MORROW

6-7-19

0800 MPE-40 DTW - 64.16 DTP 64.07

0812 MPE-38 DTW - 68.53 67.83

WEST BAILER - 133 ppm

EAST BAILER - 88.9 ppm

WEST BAILER - C - 100%, D - 20%, SHALLOW - 20%

EAST BAILER - A - 100% B - 20%

6-7-19 cont

0950

WEST BAILER C - 100%, D - 100%, SHALLOW 100%

2.5" Hg

EAST BAILER A - 100% B - 100%

2" Hg.

B - 22" Water
A - 19.1" H_2O
→ EAST BAILER

SHALLOW - 21.2" H_2O
D - 21.3" H_2O
C - 21.7" H_2O
→ WEST BAILER

WEST - 37.8 ppm

EAST - 90.3 ppm

1008 58.6" 58.0" H_2O

WEST BAILER: C - 100%, D - 100%, Shallow 0%

EAST BAILER: A - 100%, B - 100%

Temp West Bailer 148° F

East Bailer 149° F

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6-7-19 cont'd

ON MARCH 25, 2019, THE CONFIGURATION

A - 100% 3.5" H_2O
B - 20% 1.0" H_2O
C - 20% 3.0" H_2O
D - 100% 3.50 " H_2O
Shell 20% 1.0 " H_2O

Per Mike:
WEST BANK - C, D & SHALLOW
EAST BANK - A+B - 70,090 ug/m³

* BASED ON VAC, WEST APPEARS TO HAVE C, D, + A
EAST APPEARS TO HAVE B + SHALLOW

1026

WEST: C - 100%, D - 100%, Shallow - 0%
EAST: A - 100%, B - 100%

WEST - 5" Hg / 259.8 ppm / 1490°F
EAST - 5" Hg / 80.3 ppm / 1484°F

6-7-19 Alarm set @ 50 ppm

START 1038

		VAC	T, °F	PID
CIRCUIT D:	MPE-22	60.0 " H_2O	1138	202.6 ppm
	MPE-23	60.1 " H_2O	1135	716.7 ppm
	MPE-24	60.1 " H_2O	1132	137.1 ppm
	MPE-25	59.0 " H_2O	1130	30.5 ppm
	MPE-26	60.0 " H_2O	1127	162.7 ppm Alarm
	MPE-27	60.0 " H_2O	1125	308.5 ppm Alarm
	MPE-28	60.2 " H_2O	1123	97.0 ppm Alarm
	MPE-29	60.2 " H_2O	1121	53.8 ppm Alarm
	MPE-41	59.1 " H_2O	1117	141.6 ppm Alarm

1146 Composited 16.40 ppm

CIRCUIT C	MPE-30	60.5 " H_2O	1111	396.1 ppm Alarm
	MPE-31	60.4 " H_2O	1109	460.4 ppm Alarm
	MPE-32	60.5 " H_2O	1105	143.1 ppm Alarm
	MPE-33	60.5 " H_2O	1103	15.9 ppm
	MPE-34	60.5 " H_2O	1100	37.3 ppm
	MPE 40	60.2 " H_2O	1115	723.3 ppm Alarm
	MPE 39	60.3 " H_2O	1113	774.8 ppm Alarm
	MPE-35	60.7 " H_2O	1057	144.3 ppm *ALARMED
	MPE-36	60.6 " H_2O	1055	4.0 ppm
	MPE-37	60.8 " H_2O	1052	18.4 ppm

1144 Composite 333.4 ppm

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6-7-19 cont'd

1147 Composite B 107.0 ppm
1150 Composite A 109.5 ppm

MANIFOLD B - 18.6" H_2O , Composite PID 146.3

		VAC	PID (ppm)
CIRCUIT B	MPE 21	16.9" H_2O	20.2 ~~146.3~~ ppm
	MPE 20	19.3" H_2O	764.5 ppm
	MPE-19	19.5" H_2O	199.6 ppm
	MPE-18	19.4" H_2O	57.1 ppm
	MPE-17	19.4"	100.0 ppm
	MPE-16	19.6"	322.3 ppm
	MPE-15	19.6"	62.4 ppm
	MPE-14	19.8"	300.0 ppm
	MPE-13	18.5"	68.4 ppm
	MPE-12	18.4"	98.4 ppm
	MPE-38	18.3"	29.7 ppm

		DTW	DTP
1245	MPE-38	48.53	67.75
1250	MPE38 VAC -0.5" H_2O		
1301	MPE38		28.3 ppm PID well head

6-7-19

	VAC	PID WELL HEAD
MPE-20	19.0 " H_2O	128.0

1325 MANIFOLD A - 19.3" H_2O / 26.82 cfm / 127.9 ppm

	VAC	PID (ppm)
MPE-11	19.1" H_2O	47.9 ppm
MPE-10	19.0 " H_2O	320.8
MPE-9	18.6 " H_2O	218.2 ppm
MPE-8	18.7 " H_2O	30.1 ppm
MPE-7	18.5 " H_2O	12.5 ppm

1400

Cmid	B	84.69 cfm
	A	20.10 cfm
	D	103.6 cfm
	C	30.91 cfm

← ANEMOMETER

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1406	Shallow	23.6" H_2O	5.0 ppm
		VAC	PID (ppm)
	SVE-24	23.0" H_2O	2.8 ppm
	SVE-23	23.5" H_2O	8.7 ppm
	SVE-22/21	13.3" H_2O	
	SVE-29	19.5"	
	SVE-26	19.5"	
	SVE-25	8.6"	
	SVE-28	~~19.5"~~	
	SVE-30	8.5"	
	SVE-27	22.5"	
	SVE-31	20.7"	
	SVE-28	23.4"	

waters in lines appear to be rainwater

1500	MPE-35	DTW - 57.0	DTP - 57.03

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Location TWP Roswell Station 9 Date 11/19/2019

Project / Client GW Monitoring 2019

EarthCon Consultants, Inc.

By: CMB Environmental & Geological Services, Inc. Page 1 of 1

Calibrated YST 556 MPS

Serial # 05F2274

Conductivity @ 12:15 hr. Calitech 500mL @ Conductivity 1413 µs/cm @ 25°C Expires 09/04/2019

Initial @ 12:15 1.457 Ms/cm @ 17.66°C

Final: 1413 µS/cm @ 17.85°C

pH 7.0 Calitech 500mL pH 7.0 @ 25°C Expires: 04/23/19

Initial: @ 12:18 hr 8.50 @ 17.18°C

Final: 7.00 @ 17.19°C

pH 4.0: Calitech 500mL pH 4.0 @ 25°C Expires: 07/05/2019

Initial: @ 12:20 hr 4.75 @ 17.19°C

Final: 4.00 pH @ 17.23°C

ORP: Aurical 500mL ORP 100 mV @ 25°C Expires: 09/17/2019

Initial @ 12:25 314.8 ORP @ 17.28°C

Final: 100.2 @ 17.34°C

D.O: 8.30 mg/L in ambient air

Initial: @ 12:30 11.92 mg/L @ 15.93°C

Final: 8.30 mg/L @ 16.11°C

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Location Twp Roswell station 9 Date 11/19/2019

Project / Client GW Monitoring 2019

EarthCon Consultants, Inc. By: CMB

Environmental & Geological Services, Inc

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Arrive on site @ 0900 hr

Sunny 41°F

Well	DTW	DTW	T.D.	3 Cy gallons	Remarks
MW-37	Ø	59.85'	69.61	4.68	2" well with BP
MW-34	Ø	64.69'	75.75	5.31	2" MW with BP
MW-35	Ø	62.21	76.71	6.96	2" MW with BP
MW-33	Ø	65.95'	—	—	2" BP in well
MW-32	Ø	67.76'	74.20	3.09	2" BP in well
MW-30	Ø	67.59	—	—	2" BP in well
MW-29	Ø	70.0	73.90	1.87	2" MW with B.P.
MPE-7	Ø	68.40'	—	—	4" MPE well
MW-28	Ø	70.53'	—	—	2" BP in MW
MPE-9	Ø	68.84'	—	—	4" MPE well
MW-27	Ø	69.47'	75.0'	2.65	2" MW
MPE-8	Ø	67.10'	—	—	4" MPE well
MPE-11	Ø	64.89'	—	—	4" MPE well
MPE-10	66.91	66.92	* 0.01'	NAPL	X 4" MPE well
MW-21	Ø	66.98	75.0'	3.84	2" MW with BP

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Project / Client GW Monitoring 2019
Earth Cov Consultants Inc.
By: CMB Environmental & Geological Services, Inc.
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Well #	DNAPL	DTW	T.D.	3 cv gallons	Remarks
SVE-3	∅	∅	61.65'	—	2" SVE well
SVE-1A	∅	∅	29.61'	—	2" SVE well
SVE-2A	∅	∅	29.60'	—	2" SVE well.
MW-11	∅	65.25'	—	—	2" SVE well
MW-10	∅	69.91'	—	—	2" MW
MW-3	∅	67.55'	—	—	2" MW
MW-13	∅	65.05' ~~70.40~~		3.34	2" BP in well
MPE-34	∅	64.70'	—	—	4" MPE well
MPE-29	∅	68.31	—	—	4" MPE well
MPE-30	∅	66.08'	—	—	4" MPE well
SVE-30	∅	42.45'	44.05	0.768	2" SVE well
* 1.6' X 0.16 = 0.256 X 3 = 0.768.					
MPE-26	∅	65.53'	—	—	4 in MPE well
SVE-26	∅	∅	32.60'	—	2" SVE well
MPE-27	63.61	64.85'	—	—	4" MPE well w/pump
64.85 - 6361 = 1.24' NAPL Thickness					
SVE-27	∅	34.05	34.05	—	2" SVE well

Location Twp Roswell Sta. 9 Date 01/05/2020
Project / Client GW Monitoring 2019
Earth Cov Consultants Inc.
By: CMB Environmental & Geological Services Inc Page 4 of 7

Well	DNAPL	DTW	TD	3 cv gallons	Remarks
* RW-1	∅	33.38'	47.61'	2.75	4" MW
47.61' - 33.38 = 14.23' X 0.65 = 9.25					
~~SVE-3~~					
MPE-28	∅	56.90'	—	—	4" MPE well
* SVE-28	∅	28.81'	34.85	2.90	2" SVE well
34.85' - 28.81' = 6.04' X 0.16 = 0.964					
MPE-31	∅	64.0	—	—	4" MPE well w/pump
SVE-31	∅	∅	33.0'	—	2" SVE well
MW-2	∅	59.88	—	—	2" MW
MPE-25	∅	68.05'	—	—	4" MPE well
SVE-25	∅	∅	32.70	—	2" SVE well
MPE-22	∅	68.19	—	—	4" MPE well
SVE-22	∅	∅	33.08'	—	2" SVE well
MPE-23	∅	63.55'	—	—	4" MPE well w/pump
SVE-23	33.10	33.75	—	—	2" SVE well
33.75 - 33.10 = 0.65' Black oily NAPL					
MW-1B	61.60'	61.95'	—	—	2" MW (Gold color)
61.95 - 61.60 = 0.35' NAPL					
MPE-40	61.63	64.45	—	—	4" well 2" pump
64.45 - 61.45 = 2.8' Gold NAPL pipeline condensate					

Rite in the Rain

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Location TWP Roswell Sta. 9 Date 01/06/2020

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Well	Drop	DTW	TD	3 CV gallons	Remarks
MPE-24	Ø	59.60	—	—	4" MPE well w/pump
SVE-24	Ø	Ø	28.58'	—	2" SVE well
MW-14	Ø	55.95	64.50'		2" MW with BP
MW-7	Ø	65.10'	—	—	2" MW
MW-15	Ø	61.18'	—	—	2" MW BP in well
MW-17	Ø	63.0	—	—	2" MW w/ BP
MPE-15	Ø	64.58'	—	—	4" MPE well
MPE-18	Ø	63.51'	—	—	4" MPE well
MPE-12	65.71'	66.38'	—	—	4" MPE well
66.38' - 65.71' = 0.67' NAPL Thickness					
MPE-13	Ø	65.65'	—	—	4" MPE well w/ Pump
Pulled pump To gauge MPE-13					
MPE-14	65.48'	66.30'	—	—	4" MPE well w/pump
66.30' - 65.48 = 0.82' NAPL Thickness					
MPE-16	67.75'	69.75'	—	—	4" MPE w/pump
Pulled pump To Gauge MPE-16					
2.0' NAPL Thickness 69.75 - 67.75 = 2.0					
MPE-19	Ø	66.40'	—	—	4" MPE well

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Location TWP Roswell Station 9 Date 01/06/2020

Project / Client GW Monitoring 2019

By: CMB Environmental & Geological Service Inc

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Well	Drop	DTW	TD	3 CV gallons	Remarks
MPE-38	67.68'	69.41	—	—	4" MPE well w/pump
69.41' - 67.68' = 1.73' NAPL Thickness					4" MPE well w/pump
MPE-17	67.0	67.15'	—	—	
67.15' - 67.0 = 0.15' NAPL Thickness					2" MW
MW-16	68.85	68.90	—	—	
Absorbent Sock in Well — Pulled Sock to gauge well					
68.90' - 68.85 = 0.05' NAPL thickness. Changed absorbent sock.					
MPE-20	64.38	64.50'	—	—	4" MPE well w/pump
64.50' - 64.38 = 0.12' NAPL Thickness					
MPE-21	Ø	66.90'	—	—	4" MPE w/pump
Pulled pump MPE-21 To gauge well.					
MPE-39	61.10'	61.25'	—	—	4" MPE w/pump
61.25 - 61.10 = 0.15' NAPL thickness					

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Location Top Roswell Sta. 9 Date 01/06/2022

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Well #	Depth	DTW	T.D.	3CV gallons	Remarks
MPE-32	57.70'	59.20'	—	—	4" MPE w/pump
59.20' - 57.70' = 1.5' NAPL Thickness					
MW-12	Ø	56.0'	—	—	2" MW
MPE-41	56.50'	57.75'	—	—	4" MPE w/Pump
57.75 - 56.50 = 1.25' NAPL Thickness					
MPE-33	Ø	53.05'	—	—	4" MPE
MPE-36	Ø	54.62'	—	—	4" MPE well
MPE-35	58.50	60.22'	—	—	4" MPE well
60.22' - 58.50' = 1.72' NAPL Thickness					
MW-22	Ø	58.01	64.81	3.26	2" MW
MPE-37	Ø	52.22'	—	—	4" MPE
MW-20	Ø	52.45	64.0	~~5.54~~	2" MW w/BP
MW-26	Ø	50.10'	65.0	7.15	2" MW w/BP
MW-14	Ø	55.95	64.5	4.10	2" MW w/BP
MW-240	Ø	61.90	180.0	230.3	4" MW
MW-39	Ø	49.40	70.11		2" MW
MW 42	Ø	55.58	75.95	~~75.95~~ 9.47	2" MW
MW-40	Ø	54.30	70.13	7.59	2" MW
MW-41	Ø	57.20	70.06	6.17	2" MW

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Location _____ Date _____

Project / Client _____

Rite in the Rain

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Bisque II Station 9	SITE LOCATION: TWP – 6381 N. Main St. Roswell NM 88201		
WELL NO.: MW-13	SAMPLE ID.: MW-13	DATE: 01/05/2022	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 57 feet to 72 feet	STATIC DEPTH TO WATER (feet): 65.05	PURGE PUMP TYPE OR BAILER: BP – 1.5" x 3' Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (72.0 feet – 65.05 = 6.95 feet) X 0.16 gallons/foot = 1.112 gallons

3 WELL VOLUMES = 3.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1600	PURGING ENDED AT: 1620	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
16:00	Initial	0	0.25	65.05	6.06	18.16	3.607	1.80	185.0/93.3	Brown	None
16:10	1	1	0.25	–	6.10	19.11	3.712	2.62	135.7/-49.4	Turbid	None
16:15	2	2	0.25	–	6.46	20.03	3.710	2.63	125.9/-159.4	"	"
16:20	3.50	3.5	0.25	–	6.93	19.53	3.724	3.12	115.2/-138.2	"	"

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McCurdy / Ensolum	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1620	SAMPLING ENDED AT: 1625
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-13	3	CG	40mL	HCL	120 mL	6.93	BTEX 8260	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO.: MW-14	SAMPLE ID: MW-14
DATE: 01/07/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 49.5 feet to 64.5 feet	STATIC DEPTH TO WATER (feet): 55.95	PURGE PUMP TYPE OR BAILER: Dedicated ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.5 feet – 55.95 = 8.55 feet) X 0.16 gallons/foot = 1.368 gallons

3 WELL VOLUMES = 4.10 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57.85	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.85	PURGING INITIATED AT: 0905	PURGING ENDED AT: 0940	TOTAL VOLUME PURGED (gallons): 4.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0907	Initial	0	0.14	56.95	6.29	18.17	3.590	3.03	106.4/-191.2	Clear	None
0915	1	1	0.14	—	6.78	18.91	3.604	2.75	117.9/-189.0	Clear	None
0922	2	2	0.14	—	6.81	18.83	3.601	2.39	117.3/-188.5	Clear	None
0929	3	3	0.14	—	6.94	18.59	3.590	2.40	113.2/-189.7	Clear	None
0940	4.25	4.25	0.14	—	6.96	18.52	3.589	2.58	113.4/-188.7	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / EnBC	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0941	SAMPLING ENDED AT: 0945
PUMP/OR TUBING DEPTH IN WELL (feet): 57.85	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-14	3	CG	40mL	HCl	120mL	6.96	8260 BTEX	BP	0.14
MW-14 Duplicate	3	CG	40mL	HCl	120mL	6.96	8260 BTEX	BP	0.14

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: MW-20	SAMPLE ID: MW-20	DATE: 01/06/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 46.8 feet to 61.8 feet	STATIC DEPTH TO WATER (feet): 52.45	PURGE PUMP TYPE OR BAILER: dedicated B.P.

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.0 feet − 52.45 = 11.55 (feet) X 0.16 gallons/foot = 1.848 gallons

3 WELL VOLUMES = 5.54 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.45	PURGING INITIATED AT: 15:06	PURGING ENDED AT: 15:20	TOTAL VOLUME PURGED (gallons): 5.75

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:00	Initial	0	0.20	52.45	6.97	18.21	4.010	5.00	123.7/113.8	Tan/Brn	None
15:05	1	1	0.20	/	6.78	18.25	4.009	5.23	117.6/114.9	Clear	None
15:08	2	2	0.20	/	6.76	18.26	4.005	5.42	111.9/157.5	Clear	None
15:11	3	3	0.20	/	6.93	17.65	3.733	5.85	118.0/188.9	Clear	None
15:15	4	4	0.20	/	6.81	17.50	3.745	5.29	116.6/201	Clear	None
15:20	5.75	5.75	0.20	/	6.92	17.55	3.738	5.20	114.1/177.5	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:21	SAMPLING ENDED AT: 15:25
PUMP OR TUBING DEPTH IN WELL (feet): 56.45	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (displaced)	DUPLICATE (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-20	3	CG	40mL	HCl	120mL	6.92	8260 Full List	BP	0.20
MW-20 Duplicate	3	CG	40mL	HCl	120mL	6.92	8260 Full List	BP	0.20

REMARKS: Placed Purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; (CG = Clear Glass); (PE = Polyethylene); PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP = Bladder Pump); ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: Tap Roswell Station 9		SITE LOCATION: 6381 N. Main St. Roswell, NM 88201	
WELL NO: MW-21	SAMPLE ID: MW-21		DATE: 11/26/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 54 feet to 74 feet	STATIC DEPTH TO WATER (feet): 66.98	PURGE PUMP TYPE OR BAILER: Dedicated BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (75 feet − 66.98 feet) X 0.16 gallons/foot = 1.28 gallons

3 WELL VOLUMES = 3.84 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X 74.45 feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 68.21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 68.21	PURGING INITIATED AT: 10:42	PURGING ENDED AT: 11:00	TOTAL VOLUME PURGED (gallons): 4 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmho/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL pH (mV) rep	COLOR (describe)	ODOR (describe)
10:45	Initial	0		66.98	6.16	17.76	3.270	7.74	142.6 / -55.2	Clear	None
10:48	1	1		—	6.17	18.00	3.264	2.06	129.5 / -135.4	Clear	None
10:51	2	2		—	6.18	18.24	3.251	2.02	86.3 / -137.1	Clear	None
10:55	3	3		—	6.21	18.33	3.248	2.00	85.4 / -130.5	Clear	None
11:00	4	4		—	6.18	18.32	3.248	1.96	86.6 / -128.3	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F 227AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2" = 0.16); 3" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Peyton McBarnhill / CNB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:01	SAMPLING ENDED AT: 11:05
PUMP OR TUBING DEPTH IN WELL (feet): 68.21	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (Replaced)	DUPLICATE Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-21	3	CG	40mL	HCL	120 mL		BTEX 8260	BP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS.
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TNP Roswell Station 9	SITE LOCATION: 6381 North Main St. Roswell, NM 88201		
WELL NO: MW-22	SAMPLE ID: MW-29	DATE: 09/06/2022	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: 50 feet to 65 feet	STATIC DEPTH TO WATER (feet): 58.01'	PURGE PUMP TYPE OR BAILER: 1.5" Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (64.81 feet − 58.01 = 6.8 feet) X 0.16 gallons/foot = 1.088 gallons

3 WELL VOLUMES = 3.26 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 14:18	PURGING ENDED AT: 14:35	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:18	Initial	0	0.25	58.01	7.46	18.87	3.940	6.57	-68.1/55.6	Tuned Brown	None
14:21	1	1	0.25	—	7.46	18.68	3.923	6.34	-91.4/52.5	Tuned Brown	None
14:24	2	2	0.25	—	7.39	18.54	3.914	5.97	-89.8/53.4	Tan/Turbid	None
14:28	3	3	0.25	—	7.33	18.46	3.913	5.98	-88.3/60.1	Tan/Turbid	None
14:30	3.50	3.50	0.25	—	7.32	18.35	3.914	5.86	-88.5/60.9	Tan/Turbid	None

INSTRUMENTS USED: YSI 556 MPS

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.015

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Hunter M Barnhill, CnB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:31	SAMPLING ENDED AT: 14:33
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	CG	40mL	HCl	120 mL	7.32	8260 Full List	B	0.25
MW-29 Equipment Blank @ 14:15	3	CG	40mL	HCl	120 mL	N/A	8260 Full List	B	0.25

REMARKS: Placed Purged H2O in on-site Drum

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N Main St. Roswell NM 88201	
WELL NO: MW-240	SAMPLE ID: MW-240	DATE: 01/07/2022

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 61.90	PURGE PUMP TYPE OR BAILER: 10' PVC 4"

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (180 feet - 61.90 = 118.1 feet) X 0.65 gallons/foot = 76.76 gallons

3 WELL VOLUMES = 230.28 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:00	PURGING ENDED AT: 10:35	TOTAL VOLUME PURGED (gallons): 53

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:00	Initial	0	2.5	61.90	7.06	18.58	3.211	1.07	215/-51.7	Clear	None
10:05	10	10	2.5	—	7.21	18.80	3.217	0.96	223/60.4	Clear	None
10:11	20	20	2.5	—	7.15	18.77	3.231	0.87	23.1/-61.7	Clear	None
10:16	30	30	2.5	—	7.13	18.75	3.225	0.52	20.7/60.3	Clear	None
10:22	40	40	2.5	—	7.11	18.70	3.220	0.46	21.2/59.8	Clear	None
1035	55	55	2.5	—	7.10	18.61	3.225	0.51	20.8/60.2	Clear	None

INSTRUMENTS USED: YSI 556

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Burchik/Kmac	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:35	SAMPLING ENDED AT: 10:40
PUMP/OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N; Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (Replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-240	3	CG	40mL	HCL	120mL	7.10	BTEX 8260	B	2.5
MW240 Equipment Rinsate	3	CG	40mL	HCL	120mL	7.10	BTEX 8260	B	2.5

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TNP Roswell Station 9	SITE LOCATION: 6361 N. Main St. Roswell NM 88201	
WELL NO: MW-26	SAMPLE ID: MW-26	DATE: 01/06/2021

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 43 feet to 63 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Dedicated BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (65.0 feet – 50.10 = 14.90 feet) X 0.16 gallons/foot = 2.38 gallons

3 WELL VOLUMES = 7.157 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 56.63	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.63	PURGING INITIATED AT: 15:55	PURGING ENDED AT: 16:20	TOTAL VOLUME PURGED (gallons): 7.25

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (circle) mV or ORP (mV)	COLOR (describe)	ODOR (describe)
15:55	Initial	0	0.40	50.10	6.35	18.16	3.608	6.19	102.6/72.9	Clear	None
16:00	2	2	0.40	/	6.32	18.29	3.628	6.56	112.5/72.0	Clear	None
16:05	4	4	0.40	/	6.01	18.26	3.638	6.90	113.6/74.0	Clear	None
16:10	6	6	0.40	/	6.90	18.24	3.633	6.54	115.0/72.5	Clear	None
16:20	7.25	7.25	0.40	/	6.89	18.24	3.627	5.46	115.4/72.1	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2") = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:21	SAMPLING ENDED AT: 16:25
PUMP OR TUBING DEPTH IN WELL (feet): 56.63'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-26	3	CG	40mL	HCL	120 mL	6.89	8260 Full List	BP	0.40

REMARKS: Placed Purged H2O in On-Site Drum

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: MW-27	SAMPLE ID: MW-27	DATE: 11/26/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 69.47	PURGE PUMP TYPE OR BAILER: 1.6"x30' Poly Disposable Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.0 feet - 69.47 = 5.53 feet) X 0.16 gallons/foot = 0.885 gallons

3 WELL VOLUMES = 2.65 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 0930	PURGING ENDED AT: 0946	TOTAL VOLUME PURGED (gallons): 2.75

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0930	Initial	0	0.25	69.47	6.04	18.20	3.755	1.34	191.3/-24.9	Gray-Black	Strong Hydrocarbon
0936	0.50	0.50	0.25	—	6.64	19.34	3.740	0.78	187.4/-28.3	"	"
0939	1.0	1.0	0.25	—	6.59	19.32	3.710	0.99	108.3/-29.8	"	"
0943	2.0	2.0	0.25	—	6.53	19.32	3.724	1.09	111.9/-30.6	"	"
0946	2.75	2.75	0.25	—	6.47	19.26	3.737	1.32	112.5/-30.4	"	"

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton McDonald, CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0953

PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-27 Fairmont Water & Chem-Rinsate	3	CG	40mL	HCL	120 mL	N/A	BTEX 8260	B	0.25
MW-27	3	CG	40mL	HCL	120 mL	1.47	BTEX 8260	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP-Roswell Station 9	SITE LOCATION: 6251 N. Main St. Roswell, NM 88201
WELL NO.: MW-29	SAMPLE ID: MW-29
DATE: 11/25/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Dedicated BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (73.90' feet − 70.0= 3.90 feet) X 0.16 gallons/foot = 0.624 gallons

3 WELL VOLUMES = ~~1.87~~ 1.87 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 68.87'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 68.87'	PURGING INITIATED AT:	PURGING ENDED AT: 15:25	TOTAL VOLUME PURGED (gallons): 16:05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:25	Initial	0	0.05	70.0	6.83	21.12	1.815	5.84	68.8/-99.2	Clear	None
15:35	0.50	0.50	0.05	—	6.83	21.62	3.428	2.97	100.8/-104.6	Clear	None
15:45	1.0	1.0	0.05	—	6.75	21.10	3.416	2.53	103.2/-104.0	Clear	None
15:55	1.50	1.50	0.05	—	6.72	20.78	3.411	2.38	103.9/-114.6	Clear	None
16:05	2.0	2.0	0.05	—	6.70	20.69	3.412	2.33	105.0/-116.1	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F227AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5.66
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M. Barnhill / Ensr	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 16:05	SAMPLING ENDED AT: 16:08
PUMP OR TUBING DEPTH IN WELL (feet): 68.87'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) replaced	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	3	CG	40mL	HCl	120mL	6.70	BTEX 8260	BP	0.05

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS.
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-32	SAMPLE ID: MW-32	DATE: 11/25/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 60 feet to 75 feet	STATIC DEPTH TO WATER (feet): 67.76	PURGE PUMP TYPE OR BAILER: 2" Dedicated B.P.

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (74.20 feet − 67.76 = 6.44 feet) X 0.16 gallons/foot = 1.03 gallons

3 WELL VOLUMES = 3.09 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
68.61'	68.61'	13:42	14:12	3.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
13:42	Initial	0	0.166	67.76	6.69	19.74	3.203	5.63	14.6/167	Clear	None
13:48	1	1	0.166	—	6.08	19.57	3.296	2.38	30.5/716	Clear	None
13:54	2	2	0.166	—	6.07	19.45	3.307	2.24	98.6/57.9	Clear	None
14:02	3.25	3.25	0.166	—	6.08	19.41	3.308	2.23	101.8/370	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05E2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Clayton McDonald / CMB		14:02	14:15

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
68.61'	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-32	3	CG	40mL	HCl	120mL	6.08	BTEX 8260	BP	0.166
MW-32 Replicate	3	CG	40mL	HCl	120mL	6.08	BTEX 8260	BP	0.166

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS.
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main ST. Roswell, NM 88201	
WELL NO: MW-34	SAMPLE ID: MW-34	DATE: 11/20/19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: 49 feet to 79 feet	STATIC DEPTH TO WATER (feet): 64.69'	PURGE PUMP TYPE OR BAILER: Redi-Flo 2 BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.75 feet – 64.69 = 11.06 feet) X 0.16 gallons/foot = 1.769 gallons

3 WELL VOLUMES = 5.31 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67.0	PURGING INITIATED AT: 14:30	PURGING ENDED AT: 15:00	TOTAL VOLUME PURGED (gallons): 5.50

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmho/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:30	Initial	0	0.20	64.69	6.06	19.40	3.572	3.37	96.6/141	Clear	None
14:35	1	1	0.20	—	6.16	19.37	3.576	0.96	67.0/-16.8	Turbid	None
14:40	2	2	0.20	—	6.16	19.17	3.566	0.79	87.0/-32.2	Turbid	None
14:45	3	3	0.20	—	6.10	19.14	3.551	0.60	89.3/-51.5	Clear	None
14:50	4	4	0.20	—	6.08	19.15	3.549	0.59	89.7/-52.2	Clear	None
15:00	5.50	5.50	0.20								

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Bradshaw KMS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:00	SAMPLING ENDED AT: 1503
PUMP OR TUBING DEPTH IN WELL (feet): 67.0'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-34	3	CG	40mL	HCl	120 mL	<2	BTEX 8260	BP	0.20

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TNP Roswell Station #9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-35	SAMPLE ID: MW-35	DATE: 11/21/19	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH 49 feet to 79 feet	STATIC DEPTH TO WATER (feet): 62.21	PURGE PUMP TYPE OR BAILER: ~~Grundfos~~ 2" Dedicated BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (76.71 feet − 62.21 = 14.5 feet) X 0.16 gallons/foot = 2.32 gallons

3 WELL VOLUMES = 6.96 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
61.05	61.05	11:35	12:10	7 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
11:35	Turbid	0	0.055	62.21	6.62	17.18	4.010	6.74	76.8/89.6	Clear	None
11:53	1	1	0.333	—	6.31	18.69	4.034	6.35	80.1/78.8	Turbid	None
11:56	2	2	0.166	—	6.29	18.90	4.042	5.74	82.9/85.9	Turbid	None
12:02	4	4	0.166	—	6.24	18.88	4.045	5.68	83.8/81.7	Turbid	None
12:08	6	6	0.166	—	6.23	18.90	4.046	5.55	84.5/82.5	Turbid	None
12:10	7	7	0.166	—	6.21	18.85	4.046	5.77	85.6/86.6	Turbid	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McDonald / Lenmar	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:11	SAMPLING ENDED AT: 12:13
PUMP OR TUBING DEPTH IN WELL (feet): 61.05'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW35	3	CG	40mL	HCL	120 mL	6.21	BTEX 8260	BP	0.166

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main Street Roswell, NM 88201	
WELL NO: MW-37	SAMPLE ID: MW-37	DATE: 11/20/2019

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 50 feet to 70 feet	STATIC DEPTH TO WATER (feet): 59.85	PURGE PUMP TYPE OR BAILER: Dedicated B.P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER), X WELL CAPACITY (only fill out if applicable)

= (69.61' feet – 59.85' 9.76 feet) X 0.16 gallons/foot = 1.561 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

3CV = 4.68 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.20'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.20'	PURGING INITIATED AT: 13:35	PURGING ENDED AT: 13:47	TOTAL VOLUME PURGED (gallons): 5.616 ~5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP ~~TURBIDITY (NTUs)~~ mV/NTU	COLOR (describe)	ODOR (describe)
13:35	Initial	0	0.50	59.85'	8.29	19.32	3.885	7.22	52/71.5	Clear	None
13:37	1	1	0.50	—	7.79	19.23	3.866	5.87	148/67.7	Clear	None
13:39	2	2	0.50	—	7.78	19.01	3.876	5.93	36.3/66.4	Clear	None
13:41	3	3	0.50	—	7.52	18.83	3.875	5.55	35.2/65.2	Clear	None
13:43	4	4	0.50	—	6.83	18.71	3.872	5.48	60.8/61.6	Clear	None
13:46	4.75	4.75	0.50	—	6.82	18.79	3.872	5.44	61.9/61.0	Clear	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; (BP) Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McCorkle / EMS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:47	SAMPLING ENDED AT: 13:50
PUMP OR TUBING DEPTH IN WELL (feet): 64.20	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-37	3	CG	40mL	HCL	120 mL	6.82	BTEX 8260	BP	0.50
MW-37 Duplicate	3	CG	40mL	HCL	120 mL	6.82	BTEX 8260	BP	0.50

REMARKS: YSI 556 MPS Serial # 05F227AC

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: MW-39	SAMPLE ID: MW-39	DATE: 01/07/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 49.40	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.11 feet – 49.40 = 20.71 feet) X 0.16 gallons/foot = 3.31 gallons

3 WELL VOLUMES = 9.94 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.0	PURGING INITIATED AT: 10:45	PURGING ENDED AT: 11:45	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:45	Init.	0	0.20	49.40	7.25	18.85	3.401	3.80	-21.5 / 121.0	Tan/Brown	None
10:55	2	2	0.20	"	6.98	18.60	3.595	3.81	-22.8 / 121	"	"
11:05	4	4	0.20	"	6.95	18.79	3.602	2.87	-22.1 / 120	"	"
11:15	6	6	0.20	"	6.98	18.60	3.615	2.60	-22.2 / 119.8	"	"
11:25	8	8	0.20	"	6.98	18.61	3.615	2.59	-22.8 / 135.7	"	"
11:45	10	10	0.20	"	6.99	18.65	3.619	2.65	-23.0 / 136.8	"	"

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Jayton M Barnhill / [illegible]	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 11:45	SAMPLING ENDED AT: 11:50

PUMP OR TUBING DEPTH IN WELL (feet): 64.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (liters per minute)
MW39	3	CG	40mL	HCl	120 mL	6.99	8260 Full List	BP	0.20

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS.
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-40	SAMPLE ID: MW-40	DATE: 01/08/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 54.30	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.13 feet 54.30 = 15.83 feet) X 0.16 gallons/foot = 2.53 gallons

3 WELL VOLUMES = 7.59 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet)	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:00	PURGING ENDED AT: 10:18	TOTAL VOLUME PURGED (gallons): 7.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:00	Initial	0	0.50	54.30	6.93	18.53	3.450	3.50	-13.5/107.8	Clear	None
10:03	2	2	0.50	—	6.92	18.67	3.457	3.57	-13.8/148.2	Turbid	None
10:06	4	4	0.50	—	6.92	18.55	3.462	3.60	-13.7/147.2	Turbid	None
10:10	6	6	0.50	—	6.88	18.57	3.466	3.58	-13.8/148.0	Turbid Brown	None
10:13	7.75	7.75	0.50	—	6.89	18.60	3.465	3.62	-13.7/147.8	Turbid Reddish	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; (1/2") = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; (BP) Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McBarnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:15	SAMPLING ENDED AT: 10:20
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-40	3	CG	40mL	HCl	120mL	6.89	8260 Full List	BP	0.50

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; (PE) Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; (BP) = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Screw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization.
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

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GROUNDWATER SAMPLING LOG

SITE NAME: Twp Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: MW-41	SAMPLE ID: MW-41	DATE: 01/08/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 57.20	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (70.06 feet – 57.2 = 12.86 feet) X 0.12 gallons/foot = 2.057 gallons

3 WELL VOLUMES = 6.17 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 10:25	PURGING ENDED AT: 10:41	TOTAL VOLUME PURGED (gallons): 6.25

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:25	Initial	0	0.20	57.20	7.17	18.91	3.400	7.10	-9.7/10.2	Clear	None
10:30	2	2	0.20	—	7.03	18.92	3.397	7.25	-5.8/12.4	Clear	None
10:36	4	4	0.20	—	7.03	18.87	3.396	7.35	-5.6/15.7	Clear	None
10:41	6.25	6.25	0.20	—	7.08	18.91	3.397	7.40	-5.1/15.0	Clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F227482

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McCasland/Ensr	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:41	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (Replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW41	3	CG	40mL	HCl	120 mL	7.08	8260 Full List	BP	0.20

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station #9	SITE LOCATION: 6361 N. Main St. Roswell, NM 88201		
WELL NO: MW-42	SAMPLE ID: MW-42	DATE: 01/08/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet	STATIC DEPTH TO WATER (feet): 55.58	PURGE PUMP TYPE OR BAILER: BP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (75.95 feet – 55.58 = 20.37 feet) X 0.16 gallons/foot = 3.26 gallons

3 WELL VOLUMES = 9.777 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 64.03'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 64.03'	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0947	TOTAL VOLUME PURGED (gallons): 10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
0920	Initial	0	0.40	55.58	6.97	16.52	3.616	4.95	-19.9/120.7	clear	None
0926	2	2	0.40	—	6.34	18.52	3.643	4.71	-2.5/120.7	"	"
0931	4	4	0.40	—	6.33	18.52	3.614	4.39	-2.7/120.7	clear	None
0937	6	6	0.40	—	6.34	18.51	3.629	4.87	-2.6/120.7	clear	None
0942	8	8	0.40	—	6.86	18.51	3.614	4.86	-2.5/120.7	clear	None
0947	10	10	0.40	—	6.68	18.51	3.615	4.30	-2.6/120.0	clear	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton McBarnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0955
PUMP OR TUBING DEPTH IN WELL (feet): 64.03'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (Replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (gal. per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-42	3	CG	40mL	HCl	120 mL	6.88	8260 Full List	BP	0.40
MW-42 Duplicate	3	CG	40mL	HCl	120 mL	6.88	8260 Full List	BP	0.40

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
Released to Imaging: 11/22/2022 9:27:59 AM

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GROUNDWATER SAMPLING LOG

SITE NAME	TWP Bosnell Station #9	SITE LOCATION	6361 N. Main St. Roswell, NM 88201
WELL NO:	SVE-28	SAMPLE ID:	SVE-28
DATE:	01/08/2020		

PURGING DATA

WELL DIAMETER (inches):	2"	TUBING DIAMETER (inches):	N/A	WELL SCREEN INTERVAL DEPTH:	25 feet to 35 feet	STATIC DEPTH TO WATER (feet):	28.81	PURGE PUMP TYPE OR BAILER:	1.5" pdp Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (34.85 feet − 28.81 = 6.04 feet) X 0.16 gallons/foot = 0.9664 gallons

3 WELL VOLUMES = 2.89 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1355	PURGING ENDED AT: 1420	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
13:55	Initial	0	0.25	28.81	6.28	17.46	2.891	2.00	152.7/-87.2	Clear	Strong HC odor
14:10	1	1	0.25	—	6.37	19.58	2.868	1.82	128.6/174.4	Turbid	Strong
14:15	2	2	0.25	—	6.72	19.83	2.880	2.02	119.7/-185.2	Red Silt	Strong
14:20	3	3	0.25	—	6.73	19.72	2.881	2.35	111.2/-172.8	" "	" "

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 14:22	SAMPLING ENDED AT: 1425
PUMP OR TUBING DEPTH IN WELL (feet):	N/A	TUBING MATERIAL CODE:	N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)	DUPLICATE: (Y)	N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SVE-28	3	CG	40mL	HCl	120mL	6.73	8260 Full List	B	0.25
SVE-28 Equipment Rinsate	3	CG	40mL	HCl	120mL	6.73	8260 Full List	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201	
WELL NO: SVE - 30	SAMPLE ID: SVE - 30	DATE: 01/08/2020

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 20 feet to 45 feet	STATIC DEPTH TO WATER (feet): 42.45	PURGE PUMP TYPE OR BAILER: Poly 1-5"x30 Disposible

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (44.05 feet – 42.45 = 1.6 feet) X 0.16 gallons/foot = 0.256 gallons

3 WELL VOLUMES = 0.768 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 15:25	PURGING ENDED AT: 15:40	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
15:25	Turbid	0.0	0.25	42.45	3.95	19.26	5.485	0.57	163.4/-324	Black	Strong HC odor
15:34	0.25	0.25	0.25	–	4.53	19.11	5.467	0.58	148.2/-324.8	"	"
15:35	0.50	0.50	0.25	–	4.81	19.58	5.821	1.62	143.4/-256.8	"	"
15:37	0.75	0.75	0.25	–	5.27	19.82	5.815	3.69	136.4/-256.1	"	"
15:40	1.0	1.0	0.25	–	5.04	19.58	5.842	0.63	-136.5/-255.5	"	"

INSTRUMENTS USED:

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; (2") 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:40	SAMPLING ENDED AT: 15:45
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (Replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SVE-30	3	CG	40mL	HCL	120mL	5.04	8260 Full List	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
Released to Imaging: 11/22/2022 9:27:59 AM

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell NM 88201		
WELL NO: RW-1	SAMPLE ID: RW-1	DATE: 11/08/2020	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: N/A feet to feet	STATIC DEPTH TO WATER (feet): 33.28	PURGE PUMP TYPE OR BAILER: 10' PVC 1.5" Poly Disposable

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

= (47.65 feet - 33.28 = 14.37 feet) X 0.65 gallons/foot = 9.31 gallons

3 WELL VOLUMES = 27.94 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:50	PURGING ENDED AT: 15:20	TOTAL VOLUME PURGED (gallons): 28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:50	Initial	0	0.20	33.28	6.57	18.23	2.622	0.14	121.9/-344.1	Brown	Strong HC odor
14:55	5	5	2.0	—	6.68	20.56	1.299	0.99	120.8/-52.0	" "	" "
15:00	10	10	2.0	—	6.71	20.66	1.550	1.10	118.5/-385.7	"	" "
15:10	20	20	2.0	—	6.91	20.45	1.433	1.02	115.1/-385.9	" "	" "
15:20	28	28	2.0	—	6.92	20.38	1.432	0.82	114.8/-387.0	" "	" "

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:22	SAMPLING ENDED AT: 15:25
Clayton Burchit / Ensr			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
RW-1	3	CG	40ML	HCL	120 mL	6.92	8260 TCL CVOC	B	12.0

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B = Bailer); BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units Temperature: ≤ 10% °C Specific Conductance: ≤ 10% µS/cm Dissolved Oxygen: all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Received by OCD: 10/21/2022 8:37:26 AM
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Location Twp Roswell Station 9 Date 02/13/2020

Project / Client GW Monitoring 2019
Earth Con Consultants, Inc.
By: CMB Environmental & Geological Services, Inc
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Calibrated YSI 556 MPS
Serial # 05F2274AL.
Conductivity: 500mL Calitech.
1413 µs/cm @ 25°C Exp. 09/04/2020
Initial: @ 10:45 hr. 1330 µS/cm @ 15.73°C
Final: 1.413 mS/cm @ 15.73°C
pH 7.0: Calitech. 500mL pH 7.0
@ 25°C Expires: 05/22/2020
Initial: @ 10:47 hr. 7.00 pH @ 15.63
Final: 7.00 pH @ 15.64°C
pH 4.0: Calitech 500mL pH 4.0
@ 25°C Exp. 07/03/2020
Initial: @ 10:50 hr. 3.94 pH @ 15.80°C
Final: 4.00 pH @ 15.79°C
ORP: Aurical 500 mL ORP 100 mV
@ 25°C Exp. 2/17/2020
Initial: @ 10:55 hr. 212.1 ORP mV @ 15.41°C
Final: 99.9 mV ORP @ 15.41°C
DO: 8.30 mg/L in ambient air
Initial: @ 11:01 10.04 mg/L Final: 8.30 mg/L

Location Twp Roswell Station 9 Date 02/13/2020

Project / Client GW Monitoring 2019
Earth Con Consultants, Inc. By:
CMB Environmental & Geological Services Inc. Page 2 of 2
Arrive on-site @ 13:30
Sunny 50°F Humidity: 53%
Wind: SE @ 15 mph, Barometric Pressure: 30.06" in ↓

Well #	Purge	DTW	T.D.	3 CV gallons
MW-10	Ø	69.87'	72.45'	1.24
MW-11	Ø	65.10	68.55	1.66
MW-17	Ø	63.23'	67.35	1.98

Began GW monitoring @ 14:00 hr. Left site @ 16:00 hr. Shipped Samples @ 17:00 hr.
Sampled for BTEX 8260

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GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell/Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 02/13/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 57' feet to 72' feet	STATIC DEPTH TO WATER (feet): 69.87'	PURGE PUMP TYPE OR BAILER: BP Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

72.45 = (74.45 feet – 69.87' = 2.58 feet) X 0.16 gallons/foot = 0.4128 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

3well vol. = 1.24 Gallons gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:10	PURGING ENDED AT: 14:18	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:10	Initial	0	0.25	69.87	6.93	18.95	3.806	2.82	mV/NTU 184.4/183.7	Brown TURBID	None
14:12	0.50	0.50	0.25	—	6.56	18.92	3.807	3.26	181.2/162.2	Brown TURBID	None
14:16	1.0	1.0	0.25	—	6.85	18.78	3.802	3.47	198.1/142.2	" "	" "
14:18	1.25	1.25	0.25	—	6.22	18.73	3.793	3.39	189.7/121.2	Brown TURBID	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Clayton M Barnhill/CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:20	SAMPLING ENDED AT: 14:25
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	3	CG	40mL	HCL	120 mL	6.22	BTEX 8260	B	0.25
MW-10 Duplicate	3	CG	40mL	HCL	120 mL	6.22	BTEX 8260	B	0.25

REMARKS: YSI 556 MPS Serial # 05F227441
Solinst IP Serial # 55638

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9	SITE LOCATION: 6381 N. Main St. Roswell, NM 88201		
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 02/13/2020	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: 54 feet to 69 feet	STATIC DEPTH TO WATER (feet): 65.10	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (68.55 feet − 65.10 = 3.45 feet) X 0.16 gallons/foot = 0.55 gallons

3 WELL VOLUMES = 1.66 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 14:45	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:45	Initial	0	0.25	65.10	6.42	17.94	3.882	4.96	210.2/-70.2	Brown	Odor
14:49	0.50	0.50	0.25	/	6.66	17.86	3.876	4.45	206.0/-73.3	Turbid	None
14:51	1.0	1.0	0.25	/	6.84	18.32	3.846	4.88	200.6/-78.3	Turbid	None
14:54	1.50	1.50	0.25	/	6.01	18.52	3.847	5.00	196.9/-80.4	Turbid	None
14:55	1.75	1.75	0.25	/	6.05	18.17	3.912	5.06	195.7/-80.3	Turbid	None

INSTRUMENTS USED: YST 556 MPS Serial # 05F2274AL Solinst IP Serial # 556338

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Cleyton M Barnhill/CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:55	SAMPLING ENDED AT: 15:06
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	Equipment Rinsate

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-11	6	CG	40mL	HCl	120 mL	6.05	BTEX 8260	B	0.25
Equipment Rinsate MW-11	6	CG	40mL	HCl	120mL	N/A	BTEX 8260	B	0.25

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

GROUNDWATER SAMPLING LOG

SITE NAME: TWP Roswell Station 9 | SITE LOCATION: 6381 N. Main St. Roswell, NM 88201
WELL NO: MW-17 | SAMPLE ID: MW-17 | DATE: 02/13/2020

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): N/A | WELL SCREEN INTERVAL DEPTH: 53 feet to 68 feet | STATIC DEPTH TO WATER (feet): 63.23 | PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (67.35 feet – 63.23 = 4.12 feet) X 0.16 gallons/foot = 0.659 gallons

3 WELL VOLUMES = 1.9776 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGING INITIATED AT: 1526 | PURGING ENDED AT: 1535 | TOTAL VOLUME PURGED (gallons): 2 Gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	OXYGEN REDUCTION POTENTIAL pH (mV)	COLOR (describe)	ODOR (describe)
1526	Initial	0	0.25	63.23	6.70	17.93	4.126	2.34	206.2/-191.7	Turbid	Slight H2S odor
15:28	0.50	0.50	0.25	/	6.90	17.96	4.142	2.07	197.7/-233.8	Turbid	Mild odor
15:30	1.0	1.0	0.25	/	6.38	18.25	4.126	2.84	167.9/-202.9	"	" "
15:32	1.5	1.5	0.25	/	6.40	18.07	4.140	3.64	188.3/-163.1	Turbid	None
15:35	2.0	2.0	0.25	/	6.26	18.06	4.129	3.82	168.4/-140.0	Turbid Brown	None

INSTRUMENTS USED: YSI 556 MPS Serial # 05F2274AL Solinst WL Serial # 53038

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT USED: (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA[1]

SAMPLED BY (PRINT) / AFFILIATION: Clayton M. Barnhill / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1535 | SAMPLING ENDED AT: 1540

PUMP OR TUBING DEPTH IN WELL (feet): N/A | TUBING MATERIAL CODE: N/A | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) | DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-17 @ 15:45	3	CG	40mL	HCl	120mL	6.26	BTEX 8260	B	0.25
Field Blank									

REMARKS:

MATERIAL CODES: AG = Amber Glass; (CG) = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; (B) = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Sample collection will occur after 3 well volumes are purged or after well stabilization:
STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS:
pH: ≤ 10% units **Temperature:** ≤ 10% °C **Specific Conductance:** ≤ 10% µS/cm **Dissolved Oxygen:** all readings ≤ 10% mg/L
Oxygen Reduction Potential: ≤ 10% mV

Revision Date: October 22, 2013

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc.
ATTN: JD Haines, S Diamond
Mailing Address: 1880 West Oak Parkway Bldg. 100 Suite 106, Marietta, Ga 30062
Phone #: 770.973.2100
email or Fax#: JHaines@earthcon.com SDiamond@earthcon.com
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush
Project Name: Earthcon Consultants Inc. TWP Roswell Station 7
Project #: 02.2012.003700 GW Monitoring 2015
Project Manager: JD Haines, PE
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF):

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260
02/13/2020	1425	H_2O	MW-10	3x40mL VOA's	HCl												X
02/13/2020	1425	H_2O	MW-10 Duplicate	3x40mL VOA's	HCl												X
02/13/2020	15:00	H_2O	MW-11	3x40mL VOA's	HCl												X
02/13/2020	15:00	H_2O	MW-11 Equipment Rinsate	3x40mL VOA's	HCl												X
02/13/2020	15:40	H_2O	MW-17	3x40mL VOA's	HCl												X
02/13/2020	15:45	H_2O	Field Blank	3x40mL VOA's	HCl												X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
02/13/2020	1700					
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: ANY QUESTIONS PLEASE CALL CM BARNHILL 575.626.1615

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

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UPS Ground **S.D.P.**

Shipping Document

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TRACKING NUMBER: K270 799 602 5

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO.: 1AF802

REFERENCE NUMBER: Earthcon Twp Roswell Station 9

NAME: Cm Barnhill, Pe TELEPHONE: 575 626 1615

COMPANY: CmB Environmental

STREET ADDRESS: 115 E. College Blvd. #109

CITY AND STATE: Roswell, NM ZIP CODE: 88201

2 DELIVERY TO

NAME: Sample Receiving TELEPHONE: 505 345 3975

COMPANY: Hall Environmental Analysis Lab DEPT./FLR.:

STREET ADDRESS: 4901 Hawkins NE Residential Delivery ☐

CITY AND STATE: Albuquerque NM ZIP CODE: 87109

3 WEIGHT | WEIGHT (WHOLE LBS. ONLY) | DIMENSIONAL WEIGHT (If Applicable) | LARGE PACKAGE ☐ | **4 SHIPPER RELEASE** ☐

G G

		CHARGES
5 GROUND S.D.P. SHIPPING CHARGES		$
6 OPTIONAL SERVICES	☐ DECLARED VALUE FOR CARRIAGE (For declared value over $100, see instructions.) $ AMOUNT	$
	C.O.D. shipping may be available at UPS.com	
7 ADDITIONAL HANDLING CHARGE	☐ An Additional Handling Charge applies for certain items. See instructions.	$
TOTAL CHARGES		$

8 METHOD OF PAYMENT: ☐ BILL SHIPPER'S ACCOUNT NUMBER IN SECTION 1 | ☒ BILL RECEIVER | ☐ BILL THIRD PARTY | ☐ CREDIT CARD (American Express, Diner's Club, MasterCard, Visa) | ☐ CHECK

RECORD ACCOUNT NO. IN SECTION 9

9 RECEIVER'S/THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO. 1AF802 EXPIRATION DATE

THIRD PARTY'S COMPANY NAME: Hall Environmental Analysis Lab

STREET ADDRESS: 4901 Hawkins NE

CITY AND STATE: Albuquerque NM ZIP CODE: 87109

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The UPS Store #4804
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ROSWELL NM 88201-5158

DROP-OFF DATE/TIME:
Thu 13 Feb 2020 5:03 PM

ESTIMATED PICKUP DATE:
UPS Thu 13 Feb 2020 1pkg

CUSTOMER:
Not Provided
ID Type: Not Provided

TOTAL PACKAGES: 1pkg

TRACKING NUMBER	CARRIER & SERVICE	WEIGHT
K2707996025	UPS Ground	30.75000 lb

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RECOVERY WELL PUMP TEST OBSERVATIONS

Optimization Study - Circuit _____

Roswell Compressor Station
Transwestern Pipeline Company, LLC
Roswell, Chaves County, New Mexico
EarthCon Project No. 02.20120037.00

Date	Recovery Well ID	Start Time	End Time	Volume Recovered (gallon)	Pump Rate (gpm)	min Comments
06/06/19	MPE-38	12:06	12:09	4 Gallons	~~0.9~~ 1.3	2.24 Sec. = 4 Gallons
	"	12:10	12:14	4 Gallons	~~0.5~~ 0.9	4 min 24 Sec = 4 Gallons
	MPE-16	13:37				Pump Inop
6/6/19	MPE-40	1538	15:~~40~~	2 Gallons		2:30"
	"	15:40	15:44	1.25 Gallon		3' 55" Pump Rate Drops off @ after 3 gal of recov.

Notes:
gpm = gallons per minute

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EXTRACTION WELL OBSERVATIONS

Optimization Study - Circuit _____

Roswell Compressor Station
Transwestern Pipeline Company, LLC
Roswell, Chaves County, New Mexico
EarthCon Project No. 02.20120037.00

Date	Time	Extraction Wells	Blower Air Flowrate (scfm)	Manifold Flowrate (scfm)	Blower Vacuum ("Hg)	Well Head Vacuum ("Hg)	K.O. Water Level (ft)	Pump Intake Depth (ft)	Water Meter Reading (gals)	Water Flow Rate (gpm)	FID Readings (ppmv)	Comments
06/07/19	0920	West Baker	161.7	N/A	4 "	N/A	N/A	N/A	N/A	N/A	133	46347. (Total Hrs
06/07/19	0921	East Baker	166.0	N/A	4.75 "	N/A	N/A	N/A	N/A	N/A	88.9	25436.0 Total hrs.
06/07/19	0940	Circuit C	—	46.6	46.6 " H_2O	—	—	—	—	—		100% open West Baker
06/07/19	0941	Circuit D	—	N/A	26.6 " H_2O	—	—	—	—	—		20% open West Baker
06/07/19	0942	Shallow			7.3 " H_2O							East Baker 20% open
06/07/19	0943	Circuit B			5.4 " H_2O							20% open East Baker
06/07/19	0944	Circuit A			45.1 " H_2O							100% Open East Baker
06/07/19	0950	Circuit B		84.69	20.9 " H_2O						90.3	West Baker From this 100%
		East Baker	150.1		2.0 "						90.3	C, D, & Shallow
		West Baker	168.8		2.5						37.8	East Baker 100% open
		Circuit A		20.10	19.1 " H_2O							A & B open.
		Shallow			21.2 " H_2O							100% open West Baker
		Circuit D		103.68	21.3 " H_2O							100% open West Baker
		Circuit C		30.91	21.7 " H_2O							100% open West Baker
06/07/19	1008	Circuit D			58.0 " H_2O							Manifold Vacuum
		Circuit C			58.6 " H_2O							Manifold Vacuum

Notes:
K.O.= Knockout
Vac= Vacuum
(scfm)= standard cubic feet per minute
"Hg= inches of mercury
(gals)= gallons
ft= feet
ppmv= parts per million per volume
FID = Flame ionization detector
* Measurement at manifold

Initial: West Baker: "C" 100% open "D" 20% open Shallow 20% open
East Baker. "A" 100% open "B" 20% open.

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EXTRACTION WELL OBSERVATIONS
Optimization Study - Circuit _____

Roswell Compressor Station
Transwestern Pipeline Company, LLC
Roswell, Chaves County, New Mexico
EarthCon Project No. 02.20120037.00

Date	Time	Extraction Wells	Blower Air Flowrate (scfm)	Manifold Flowrate (scfm)	Blower Vacuum ("Hg)	Well Head Vacuum ("Hg)	K.O. Water Level (ft)	Pump Intake Depth (ft)	Water Meter Reading (gals)	Water Flow Rate (gpm)	PID ~~FID~~ Readings (ppmv)	Comments
						Manifold Vac.						
06/07/19	10:10	West Bank	155.0		5.0							
06/07/19	10:10	East Bank	149.3		2.0							
06/07/19	10:25	West B	154.9		5.0						259.8	
06/07/19	10:26	East B	148.6		2.0						80.3	
06/07/19	10:35	MPE 22	N/A	N/A		60					202.8	Circuit "D"
	10:36	23				60.1					716.7	
	10:37	24				60.1					1391.	
	10:37	25				59.1					30.5	
	10:38	26				60.0					162.7	
	10:38	27				60.0					308.5	
	10:39	28				60.2					97.0	
	10:39	29				60.2					53.8	
	10:40	MPE 41				59.1					141.6	on Circuit "D"
	10:41	MPE 39				60.2					723.3	Circuit "C"
	10:42	39				60.3					774.8	
	10:43	30				60.5					396.1	
	10:43	31				60.4					460.4	

Notes:
K.O.= Knockout
Vac= Vacuum
(scfm)= standard cubic feet per minute
"Hg= inches of mercury
(gals)= gallons
ft= feet
ppmv= parts per million per volume
FID = Flame ionization detector
* Measurement at manifold

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EXTRACTION WELL OBSERVATIONS
Optimization Study - Circuit _____

Roswell Compressor Station
Transwestern Pipeline Company, LLC
Roswell, Chaves County, New Mexico
EarthCon Project No. 02.20120037.00

Date	Time	Extraction Wells	Blower Air Flowrate (scfm)	Manifold Flowrate (scfm)	Blower Vacuum ("Hg)	~~Well Head~~ Manifold Vac. ("Hg)	K.O. Water Level (ft)	Pump Intake Depth (ft)	Water Meter Reading (gals)	Water Flow Rate (gpm)	PID FID Readings (ppmv)	Comments
06/07/19	10:44	32		N/A		~~32.0~~ 20	60.5				143.1	Circuit "C"
	10:44	33				60.5					15.9	
	10:45	34				60.5					37.3	
	10:45	35				60.7					144.3	
	10:45	36				60.6					4.0	
	10:45	37				60.8					18.4	
06/07/19	11:40	Circuit "C" Composite									333.4	
	11:44	Circuit "D" Composite									164.0	
	11:45	Composite "B"									107.0	
	11:47	Composite "A"									109.5	

Notes:
K.O.= Knockout
Vac= Vacuum
(scfm)= standard cubic feet per minute
"Hg= inches of mercury
(gals)= gallons
ft= feet
ppmv= parts per million per volume
FID = Flame ionization detector
* Measurement at manifold

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EXTRACTION WELL OBSERVATIONS

Optimization Study - Circuit _____

Roswell Compressor Station
Transwestern Pipeline Company, LLC
Roswell, Chaves County, New Mexico
EarthCon Project No. 02.20120037.00

Date	Time	Extraction Wells	Blower Air Flowrate (scfm)	Manifold Flowrate (scfm)	Blower Vacuum ("Hg)	Manifold Vac Well Head Vacuum ("Hg)	K.O. Water Level (ft)	Pump Intake Depth (ft)	Water Meter Reading (gals)	Water Flow Rate (gpm)	PID PID Readings (ppmv)	Comments
06/07/19	12:00	Circuit B manifold outer Bldg.		99.04		18.6						Outer Bldg.
06/07/19	12:01	MW 21				16.9					20.2	Circuit B
	12:02	20				19.3					764.5	
	12:02	19				19.5					199.6	
	12:03	18				19.4					51.1	
	12:04	17		N		19.4					100.0	
	12:14	16		A		19.6					322.3	
	12:15	15				19.6					62.4	
	12:16	14				19.8					300.0	
	12:06	13				18.5					68.4	
	12:07	12				18.4					98.4	
	12:07	38				18.3					29.7	
		Circuit B Composite Manifold outer Bldg									146.3	
	13:07	MW 20				19.0					128.0	@ Wellhead
	12:50	MW 38				5.4					28.3	@ Wellhead

Notes:
K.O.= Knockout
Vac= Vacuum
(scfm)= standard cubic feet per minute
"Hg= inches of mercury
(gals)= gallons
ft= feet
ppmv= parts per million per volume
FID = Flame ionization detector
* Measurement at manifold

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EXTRACTION WELL OBSERVATIONS

Optimization Study - Circuit _____

Roswell Compressor Station
Transwestern Pipeline Company, LLC
Roswell, Chaves County, New Mexico
EarthCon Project No: 02.20120037.00

Date	Time	Extraction Wells	Blower Air Flowrate (scfm)	Manifold Flowrate (scfm)	Blower Vacuum ("Hg)	Well Head Vacuum ("Hg)	K.O. Water Level (ft)	Pump Intake Depth (ft)	Water Meter Reading (gals)	Water Flow Rate (gpm)	PID Readings (ppmv)	Comments
						Manifold Vacuum					PID	
06/07/16	13:22	Circuit A @ Outer Bldg.		Composite 2682		19.3					127.0	Outer Bldg. Circuit "A" 2682 SCFM
	13:22	MPE 11				19.1					41.9	Circuit "A"
	13:23	10				19.0					320.8	
	13:23	9				18.6					218.2	
	13:24	8				18.7					30.1	
	13:24	7				18.5					12.5	
06/07/16		Circuit Shallow Main	Composite Bldg.									Circuit Shallow Main Bldg.
	14:05	SVE 24				23.6					5.0	
	14:05	23				23.0					2.8	
	14:06	22				23.5					8.7	
	14:06	21				~~13.0~~	13.3				X	Water in Line
	14:07	25				19.5					X	Water in Line
	14:07	30				8.6					X	Water in Line
	14:08	27				8.5					X	Water in Line
	14:08	31				22.5					X	
	14:08	28				20.7					X	
	14:08	26				23.4					X	
						19.5						

Notes:
K.O.= Knockout
Vac= Vacuum
(scfm)= standard cubic feet per minute
"Hg= inches of mercury
(gals)= gallons
ft= feet
ppmv= parts per million per volume
FID = Flame ionization detector
* Measurement at manifold

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CMB CONSULTING GEOLOGIST WELL DATA FORM

Well No. RW-1
Sheet 1
of Sheets 2

1. Project RW-1 Pump Test TWP Roswell Station 9
2. Project Location TWP Roswell Station 9 6381 N. Main Street Roswell, NM 88201
3. Date 04/01/2020
4. Technician CM Barnhill, PE

Sampling / Development Parameters, Continued

Time	Temp C	Conductivity (umhos/cm)	pH	NTUs	WL (from TOC)	Volume (gallons)	Flow Rate (gpm)	Photo #, Observations (1)
Arrive on site @ 0850 hrs - 56°F Mostly Cloudy Humidity 37% Wind: SW 12 mph Barometric Pressure 29.72" Hg.								
well Meter #					DTW	T.D.		
0930	RW-1				33.75'	41.80'		
0935	SVE-27				Ø	34.15'		
0938	SVE-28				29.12'	35.0'		
		4" Submersible pump set @ 40.80' From TOC						
10:20	RW-1	1" Discharge line -			33.76'	—	—	—
Surge Tank: TOP Water @ 4.08' NAPL 3.75'								
	SVE-27	34.15' T.D						
10:30	Started Pumping @ 10:30				34.6 GPM			
	SVE-28				29.12	—	—	—
10:31	RW-1 @				36.35'			
10:32	SVE-28				29.0			
10:35	RW-1				36.47			
	SVE-28				29.0			
10:37	RW-1				36.85			
	SVE-28				29.0			
10:40	RW-1				36.84'			
	SVE-28				29.0			
10:45	RW-1				37.05'		(33 GPM)	
	SVE-28				29.0			
10:50	RW-1				37.23'		(32.07 GPM)	
	SVE-28				29.0		3.32 NAPL (Surge Tank)	
10:55	RW-1				37.39'		(31.09 GPM)	
	SVE-28				29.0		NAPL @ 3.0' Surge Tank	

NTU = Nephelometric turbidity units

WL = Water Level from Top of PVC Casing

Checked By CM Barnhill PE

Date 04/01/2020

CMB CONSULTING GEOLOGIST
WELL DATA FORM

Well No. RW-1
Sheet 2 of Sheets 2

1. Project RW-1 Pump Test TWP Roswell Station 9
2. Project Location TWP Roswell Station 9 6351 main St. Roswell, NM 88201
3. Date 04/01/2020
4. Technician CM Barnhill, PG

Sampling / Development Parameters, Continued

Time	Well # / Temp C	Conductivity (umhos/cm)	pH	NTUs	WL (from TOC)	Volume (gallons)	Flow Rate (gpm)	Photo #, Observations (1)
11:00	RW-1				37.50'		(30.68')	
11:00	SVE-28				29.0'		Surge Tank NAPL 2.70'	
11:05	RW-1				37.95'			
	SVE-28				29.0		(30.57)	
11:10	RW-1				38.05'		Surge Tank NAPL @ 2.37'	
	SVE-28				29.0'		(31.12) NAPL	
11:15	RW-1				38.20'		Surge Tank 2.17'	
	SVE-28				29.0'			
11:20	RW-1				~~32.71~~ 38.40'		Surge Tank NAPL 1.85'	
	SVE-28				29.0		(32.71)	
11:25	RW-1				38.50'		Surge Tank NAPL 1.50	
	SVE-28				29.0			
* Shut Down @ 11:30 hr - Pump off - Will let well re-charge								
11:35	RW-1				37.85			
	SVE-28				29.0'			
11:40	RW-1				35.55			
	SVE-28				29.0'			
11:45	RW-1				35.25			
	SVE-28				29.0			
11:50	RW-1				35.12			
	SVE-28				29.0			
11:55	RW-1				34.95			
	SVE-28				29.0'		* Average Pumping	
12:00	RW-1				34.80'		rate = 31.978 Gallons	
	SVE-28				29.0		per minute = 1918	
12:10	RW-1				34.70'		Gallons pumped *	
~~12:20~~	SVE28				29.0			
~~12:30~~	RW-1				34.55'			
	SVE-28				29.0'			
12:30	RW-1				34.45'			
	SVE-28				29.0'			

NTU = Nephelometric turbidity units

WL = Water Level from Top of PVC Casing

Left Site @ 13:00 hr

Checked By [signature] PG

Date 04/01/2020

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Initial surge tank Napl = 3.75′ Final= 1.50 ′ 2.25 ′ water added to surge tank. 2.25x 18 barrels per foot = 40.5 barrels 40.5x 42 gallons per barrel = 1701 gallons

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Location Twp Roswell Station 9 Date 04/04/2020

Project / Client NAPL Removal / SVE-23
EarthCon Consultants, Inc. By:
CMB Environmental & Geological
Services, Inc. Page 1 of 1

Arrive on-site @ 0830 hr.

Well #	DNAPL	DTW	T.D.	Remarks
SVE23	33.40'	34.30	36.80'	Black oil

2" SCH 40 PVC SVE Well NAPL Thickness
34.30' - 33.40' = 0.90' NAPL
0.90 x 0.16 = 0.144 Gallons NAPL
@ 0920 hr started Bailing
SVE-23 with 3.0' x 1.5" Poly
disposable bailer. & 30" x 1/8" Stainless steel bailer
@ 0930 hr Bailed 5 gallons
99% H_2O 1% NAPL
4.95 Gallons H_2O 0.05 Gallons
NAPL
DNAPL = ∅ DTW = 34.80'
TD = 33.60'
Placed purged water in
Tank inside Building to be
pumped to large 210 Barrel
Surge Tank.

Left Site @ 10:00
Christian Llull PG

Location Twp Roswell Station 9 Date 04/23/2020

Project / Client Gauge SVE & Monitor Wells
& Remove NAPL / EarthCon Consultants
By: CMB Environmental &
Geological Services, Inc.
Page 1 of 1

Arrived on-site @ 0700 hr.

Well #	DNAPL	DTW	T.D.	Remarks
SVE-28	∅	29.11'	34.85'	@ 0730 hr
SVE-30	∅	42.55'	44.03'	@ 0735 hr.
RW-1	∅	33.79'	—	@ 07:40 hr
~~SVE~~				
SVE-22	∅	∅	Dry @ 33.15'	@ 07:45 hr
SVE-23	33.5'	33.90	36.80'	@ 0750 hr

0.40' NAPL = 0.064 Gallons NAPL
Started bailing SVE-23 @ 0755 hr
@ 0702 hr. DNAPL = ∅ DTW = 35.70'
Bailed 160 ounces = 97% H_2O 3% NAPL
155.2 ounces H_2O 4.8 ounces NAPL
Placed large 3' absorbent
Sock in well @ 34' From TOC.
Left Site @ 0830 hr.

Christian Llull PG

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Location TWP Roswell Station 9 Date 04/24/2020

Project / Client Gauge MW & NAPL Remova/
For EarthCon By: CMS Environmental
& Geological Services, Inc Page 1 of 1

arrive on site @ 0615 hr.
@ 0625 hr gauged MW-16
DNAPL = 68.41' DTW = 69.02
69.02 - 68.41 = 0.61' NAPL
0.61' x 0.16 = 0.0976 Gallons NAPL
Started Bailing MW-16 @ 0630 hr.
@ 0745 hr. Baled 490unces of
water. 400unces ~~NAPL~~ water
90unces of NAPL. Placed
new 3.0' x 1.5" absorbent sock
in MW-16.

Left Site @ 0800 hr.

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Location Date

Project / Client

CONTROL
VALVE

DKA33

DKA334
JAN
2

Geneva
DKA334
JAN

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Location Twp Roswell Station 9 Date 04/06/2020

Project / Client NAPL Recovery / Earth Consultants, Inc. By: CMB

Environmental & Geological Services Inc.

Page 1 OF —

Arrive on-site 0630 hr.

Mike Beagles, Geotech,

Well	D_{NAPL}	D_{TW}	TD	Remarks
SVE-23	33.51	33.91	—	@ 07:08 hr. started bailing with 3.0' x 1.8" poly disposable Bailer, @ 0715 hr. @ 07:20 Bailed 66 ounces 95% H_2O 5% NAPL 62.7 ounces H_2O 3.3 ounces Black NAPL.

D_{NAPL} = 33.60' D_{TW} = 33.62'

Left Site 07:45 hr.

Location _____ Date _____

Project / Client _____

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Location TWP Roswell Station 9 Date 04/23/2020

Project / Client Earthcon / NAPL Recovery

By: CMB Environmental & Geological Services, Inc.

Page 1 OF 1

04/23/2020 Arrived on site @ 0630 hr. Mike Beagles, Geo Tech.

Well #	DNAPL	DTW	T.D.	Remarks
SVE-28 @ 0730	ϕ	29.11	34.85	2" SVE well
SVE-30 @ 0735	ϕ	42.55	44.03	2" Lock SVE well
RW-1 @ 0740	ϕ	33.79'	—	4" Recovery well
~~SVE-23~~ SVE-23	ϕ	ϕ	33.15	Dry SVE well
	33.50	33.90		

@ 0645 started bailing @ 0650 with 3.0' x 1.8" poly disposable bailer @ 702 hr. Bailed 160 ounces 97% H_2O 3% NAPL 155.2 ounces H_2O 4.8 ounces NAPL placed 3' absorbant sock in well.

Left Site @ 0800

Location _____ Date _____

Project / Client _____

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Appendix B
Data Validation Report – RPDs and
Analytical Data Packages – Semi-annual Groundwater Sampling

APPENDIX B - Data Validation Report - RPDs
Transwestern Compressor Station No. 9 - Roswell, NM

Well	Sampling Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,1-Dichloroethane	1,1-Dichloroethene
MW-10	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-10DUP)	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-14	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-14 DUP)	01/07/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-20	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	7.4	2.5
(MW-20 DUP)	01/06/20	< 1.0	< 1.0	< 1.0	< 1.5	7.3	2.5
	RPD:	--	--	--	--	1.3	0
MW-32	11/25/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-32 DUP)	11/25/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-34	06/24/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-34 DUP)	06/24/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-37	11/20/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-37 DUP)	11/20/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-39	06/26/19	< 1.0	< 1.0	< 1.0	< 1.5	3.1	18
(MW-39 DUP)	06/26/19	< 1.0	< 1.0	< 1.0	< 1.5	2.8	18
	RPD:	--	--	--	--	10	0
MW-42	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.0
(MW-42 DUP)	06/25/19	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.1
	RPD:	--	--	--	--	--	10
MW-42	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.4
(MW-42 DUP)	01/08/20	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.5
	RPD:	--	--	--	--	--	7.1

NOTES:
Relative Percent Differenct (RPD) = abs([(S-D) / ((S+D)/2)] * 100)
S = Concentration of analyte in Real Sample
D = Concentration of analyte in Duplicate Sample
ug/L - all concentrations reported in micrograms per liter

Prepared by: JIM 2/21/20
Checked by: RAH 2/21/20

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 05, 2019

JD Haines
Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Con Transwestern Pipeline Co OrderNo.: 1906F30

Dear JD Haines:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/27/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-34
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 9:37:00 AM
Lab ID: 1906F30-001 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Toluene	ND	1.0		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 12:53:00 AM	SL61063
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/2/2019 12:53:00 AM	SL61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-34 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 9:37:00 AM
Lab ID: 1906F30-002 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Toluene	ND	1.0		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 4:28:00 PM	SL61103
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103
Surr: Toluene-d8	99.2	70-130		%Rec	1	7/2/2019 4:28:00 PM	SL61103

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-29
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 11:00:00 AM
Lab ID: 1906F30-003 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Toluene	ND	1.0		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 3:43:00 AM	SL61063
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063
Surr: Dibromofluoromethane	100	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063
Surr: Toluene-d8	98.8	70-130		%Rec	1	7/2/2019 3:43:00 AM	SL61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-21
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/24/2019 11:40:00 AM
Lab ID: 1906F30-004 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Toluene	ND	1.0		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 4:07:00 AM	SLB610€
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€
Surr: Toluene-d8	102	70-130		%Rec	1	7/2/2019 4:07:00 AM	SLB610€

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:45:00 AM
Lab ID: 1906F30-005 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Toluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Acetone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Butanone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1-Dichloroethene	2.0	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:45:00 AM
Lab ID: 1906F30-005 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 5:19:00 AM	R61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Styrene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 5:19:00 AM	R61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 5:19:00 AM	R61063
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063
Surr: Toluene-d8	99.3	70-130		%Rec	1	7/2/2019 5:19:00 AM	R61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Boiler Equipment Rinsat
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:25:00 AM
Lab ID: 1906F30-006 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Acetone	19	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Boiler Equipment Rinsat
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 8:25:00 AM
Lab ID: 1906F30-006 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 5:43:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 5:43:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 5:43:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063
Surr: Toluene-d8	99.5	70-130		%Rec	1	7/2/2019 5:43:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 9:17:00 AM
Lab ID: 1906F30-007 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1-Dichloroethane	7.8	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1-Dichloroethene	3.4	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 9:17:00 AM
Lab ID: 1906F30-007 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 6:07:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 6:07:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 6:07:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/2/2019 6:07:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:03:00 AM
Lab ID: 1906F30-008 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1-Dichloroethane	7.8	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1-Dichloroethene	42	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:03:00 AM
Lab ID: 1906F30-008 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 6:31:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 6:31:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 6:31:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/2/2019 6:31:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-009 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Acetone	5.3	5.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1-Dichloroethene	1.0	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-009 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 6:54:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 6:54:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 6:54:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	92.7	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063
Surr: Dibromofluoromethane	96.7	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063
Surr: Toluene-d8	97.7	70-130		%Rec	1	7/2/2019 6:54:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-010 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Acetone	14	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1-Dichloroethene	1.1	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 10:56:00 AM
Lab ID: 1906F30-010 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 7:18:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 7:18:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 7:18:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063
Surr: Dibromofluoromethane	96.9	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063
Surr: Toluene-d8	98.3	70-130		%Rec	1	7/2/2019 7:18:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 3:37:00 PM
Lab ID: 1906F30-011 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 3:37:00 PM
Lab ID: 1906F30-011 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 7:42:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 7:42:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 7:42:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063
Surr: Toluene-d8	98.0	70-130		%Rec	1	7/2/2019 7:42:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 4:25:00 PM
Lab ID: 1906F30-012 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1-Dichloroethene	1.1	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/25/2019 4:25:00 PM
Lab ID: 1906F30-012 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 8:06:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 8:06:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 8:06:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063
Surr: Dibromofluoromethane	96.7	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063
Surr: Toluene-d8	100	70-130		%Rec	1	7/2/2019 8:06:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-013 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1-Dichloroethane	3.1	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1-Dichloroethene	18	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-013 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 9:05:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 9:05:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 9:05:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063
Surr: Toluene-d8	100	70-130		%Rec	1	7/2/2019 9:05:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-014 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Acetone	11	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1-Dichloroethane	2.8	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1-Dichloroethene	18	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39 Duplicate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 11:16:00 AM
Lab ID: 1906F30-014 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 9:29:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 9:29:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 9:29:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063
Surr: Dibromofluoromethane	98.7	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063
Surr: Toluene-d8	96.2	70-130		%Rec	1	7/2/2019 9:29:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-015 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	51	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Ethylbenzene	1.4	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Naphthalene	4.4	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
cis-1,2-DCE	5.2	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1-Dichloroethane	12	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-015 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 9:53:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 9:53:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 9:53:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063
Surr: Dibromofluoromethane	94.6	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063
Surr: Toluene-d8	102	70-130		%Rec	1	7/2/2019 9:53:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1 Boiler Equipment Rinsate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-016 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Acetone	30	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1 Boiler Equipment Rinsate
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:11:00 PM
Lab ID: 1906F30-016 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 10:16:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 10:16:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 10:16:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063
Surr: Dibromofluoromethane	94.8	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063
Surr: Toluene-d8	99.2	70-130		%Rec	1	7/2/2019 10:16:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:25:00 PM
Lab ID: 1906F30-017 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	1.5	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1-Dichloroethane	2.2	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:25:00 PM
Lab ID: 1906F30-017 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 10:40:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 10:40:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 10:40:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063
Surr: Toluene-d8	97.0	70-130		%Rec	1	7/2/2019 10:40:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:45:00 PM
Lab ID: 1906F30-018 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	10	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Toluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Ethylbenzene	24	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Naphthalene	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
1-Methylnaphthalene	ND	20		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Methylnaphthalene	ND	20		µg/L	5	7/2/2019 11:04:00 AM	B61063
Acetone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromodichloromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromoform	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Bromomethane	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Butanone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Carbon disulfide	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Carbon Tetrachloride	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chloroethane	11	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chloroform	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Chloromethane	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Chlorotoluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
4-Chlorotoluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
cis-1,2-DCE	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Dibromochloromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Dibromomethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,3-Dichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,4-Dichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Dichlorodifluoromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1-Dichloroethane	30	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1-Dichloroethene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2-Dichloropropane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,3-Dichloropropane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
2,2-Dichloropropane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Transwestern Pipeline Co
Collection Date: 6/26/2019 12:45:00 PM
Lab ID: 1906F30-018 **Matrix:** AQUEOUS **Received Date:** 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Hexachlorobutadiene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
2-Hexanone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Isopropylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
4-Isopropyltoluene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
4-Methyl-2-pentanone	ND	50		µg/L	5	7/2/2019 11:04:00 AM	B61063
Methylene Chloride	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
n-Butylbenzene	ND	15		µg/L	5	7/2/2019 11:04:00 AM	B61063
n-Propylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
sec-Butylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Styrene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
tert-Butylbenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
trans-1,2-DCE	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,4-Trichlorobenzene	5.6	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,1-Trichloroethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,1,2-Trichloroethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Trichloroethene (TCE)	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Trichlorofluoromethane	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
1,2,3-Trichloropropane	ND	10		µg/L	5	7/2/2019 11:04:00 AM	B61063
Vinyl chloride	ND	5.0		µg/L	5	7/2/2019 11:04:00 AM	B61063
Xylenes, Total	ND	7.5		µg/L	5	7/2/2019 11:04:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063
Surr: Dibromofluoromethane	96.5	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063
Surr: Toluene-d8	97.1	70-130		%Rec	5	7/2/2019 11:04:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Transwestern Pipeline Co
Collection Date:
Lab ID: 1906F30-019
Matrix: TRIP BLANK
Received Date: 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Toluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Ethylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Naphthalene	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Methylnaphthalene	ND	4.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Acetone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromodichloromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromoform	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Bromomethane	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Butanone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Carbon disulfide	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Carbon Tetrachloride	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chloroethane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chloroform	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Chloromethane	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
4-Chlorotoluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
cis-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Dibromochloromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Dibromomethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1-Dichloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1-Dichloroethene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906F30**
Date Reported: **7/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Transwestern Pipeline Co
Collection Date:
Lab ID: 1906F30-019
Matrix: TRIP BLANK
Received Date: 6/27/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
2-Hexanone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2019 11:28:00 AM	B61063
Methylene Chloride	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Styrene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Vinyl chloride	ND	1.0		µg/L	1	7/2/2019 11:28:00 AM	B61063
Xylenes, Total	ND	1.5		µg/L	1	7/2/2019 11:28:00 AM	B61063
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063
Surr: Dibromofluoromethane	95.9	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063
Surr: Toluene-d8	98.0	70-130		%Rec	1	7/2/2019 11:28:00 AM	B61063

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070180** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.4	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **1906f30-004ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-21** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0.4060	98.5	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.3	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.4	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.6	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **1906f30-004amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-21** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070228** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0.4060	89.3	70	130	9.65	20	
Toluene	19	1.0	20.00	0	96.8	70	130	8.00	20	
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130	0	0	
Surr: Dibromofluoromethane	9.8		10.00		97.7	70	130	0	0	
Surr: Toluene-d8	10		10.00		100	70	130	0	0	

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070230** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070230** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070313** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.6	70	130			
Toluene	19	1.0	20.00	0	94.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.2	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SLB61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070342** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL61103** RunNo: **61103**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2071640** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **PBW**	Batch ID: **SL61103**	RunNo: **61103**							
Prep Date:	Analysis Date: **7/2/2019**	SeqNo: **2071640**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.4	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.0	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**							
Client ID: **LCSW**	Batch ID: **SL61103**	RunNo: **61103**							
Prep Date:	Analysis Date: **7/2/2019**	SeqNo: **2071679**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.0	70	130			
Toluene	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.1	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.5	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.2	70	130			
Surr: Toluene-d8	9.8		10.00		97.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070178** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.6	70	130			
Toluene	19	1.0	20.00	0	94.1	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	85.3	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	83.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.2	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070221** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R61063**	RunNo: **61063**
Prep Date:	Analysis Date: **7/1/2019**	SeqNo: **2070221** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R61063** RunNo: **61063**
Prep Date: Analysis Date: **7/1/2019** SeqNo: **2070221** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.4	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **B61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070414** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Chlorobenzene	22	1.0	20.00	0	111	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.3	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070415** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B61063** RunNo: **61063**
Prep Date: Analysis Date: **7/2/2019** SeqNo: **2070415** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906F30**
05-Jul-19

Client: Earth Con
Project: Earth Con Transwestern Pipeline Co

Sample ID: **rb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **PBW**	Batch ID: **B61063**	RunNo: **61063**							
Prep Date:	Analysis Date: **7/2/2019**	SeqNo: **2070415**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **1906F30** RcptNo: **1**

Received By: **Thom Maybee** **6/27/2019 10:00:00 AM**

Completed By: **Michelle Garcia** **6/27/2019 12:04:38 PM** Michelle Garcia

Reviewed By: LB 6/28/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☑

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Thm 6-28-19

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

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

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks: Sample 005 & 017 all have large amount of headspace

17. **Cooler Information** one of two Trip Blanks w/broken. Thm 6-28-19

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

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

Client: EarthCon Consultants, Inc.
ATTN: Jordon French
Mailing Address: 1880 West Oak Parkway #106
Marietta, Ga. 30062
Phone #: 770. 973. 2100 Ext. 2892
email or Fax#: Jfrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush
Project Name: EarthCon Trans Western Pipeline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, PE
Sampler: CM Barnhill PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 5.1+0.2=5.3

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906F30	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	8260 BTEX						
06/24/19	0931	H_2O	MW-34	3 40mL VOAs	HCL	001											X						
06/24/19	0937	H_2O	MW-~~99~~ 34 Duplicate			002											X						
06/24/19	11:00	H_2O	MW-29			003											X						
06/24/19	11:40	H_2O	MW-21			004											X						
06/25/19	0845	H_2O	MW-22			005								X									
06/25/19	0825	H_2O	MW-22 Boiler equipment Rinsate			006								X									
06/25/19	0917	H_2O	MW-20			007								X									
06/25/19	10:03	H_2O	MW-26			008								X									
06/25/19	10:56	H_2O	MW-42			009								X									
06/25/19	10:56	H_2O	MW-42 Duplicate			010								X									
06/25/19	15:37	H_2O	MW-40			011								X									
06/25/19	16:25	H_2O	MW-41			012								X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06/26/19	1500			UPS		
					6.27.19	1000
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: ANY Questions? Please Call CMB @ 575.626.1615

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

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 11/21/2022 8:37:26 AM

Chain-of-Custody Record

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

Client: EarthCon Consultants, Inc
ATTN: Jordon French
Mailing Address: 1880 West Oak Parkway #106
Marietta, Ga 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: JFrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____
Project Name: EarthCon Transwestern Pipeline Co.
Project #: Roswell Station 9 GW Monitoring 2019
Project Manager: JD Haines, P.E.
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature: 5.1 + 0.2 = 5.3°C

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1906F30	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) Full List	8270 (Semi-VOA)	Air Bubbles (Y or N)
06/26/19	11:16	H_2O	MW-39	3x 40mL VOA's	HCl	013										X		
06/26/19	11:16	H_2O	MW-39 Duplicate			014										X		
06/26/19	12:11	H_2O	RW-1			015										X		
06/26/19	12:11	H_2O	RW-1 equipment rinsate Bailer			016										X		
06/26/19	12:25	H_2O	SVE-28			017										X		
06/26/19	12:45	H_2O	SVE-30			018										X		
																	06/27/19	
			TRIP BLANK	2x 40mL VOA's	HCl	019										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
06/26/19	1500		UPS	6-27-19	10.00
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: ANY Questions ? Please Call CMB @ 575.626.1615

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 11, 2019

JD Haines
Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Con TWP Roswell Station 9 OrderNo.: 1907167

Dear JD Haines:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/2/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1907167**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27
Project: Earth Con TWP Roswell Station 9
Collection Date: 6/29/2019 7:00:00 PM
Lab ID: 1907167-001 **Matrix:** AQUEOUS **Received Date:** 7/2/2019 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	2.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Toluene	ND	2.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Ethylbenzene	ND	2.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Xylenes, Total	ND	3.0	D	µg/L	2	7/10/2019 4:57:49 AM	S61259
Surr: 1,2-Dichloroethane-d4	83.1	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259
Surr: 4-Bromofluorobenzene	87.7	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259
Surr: Dibromofluoromethane	88.3	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259
Surr: Toluene-d8	94.2	70-130	D	%Rec	2	7/10/2019 4:57:49 AM	S61259

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1907167**
Date Reported: **7/11/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27 Field Blank
Project: Earth Con TWP Roswell Station 9
Collection Date: 6/29/2019 7:00:00 PM
Lab ID: 1907167-002 **Matrix:** AQUEOUS **Received Date:** 7/2/2019 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	7/10/2019 5:26:27 AM	S61259
Toluene	ND	1.0		µg/L	1	7/10/2019 5:26:27 AM	S61259
Ethylbenzene	ND	1.0		µg/L	1	7/10/2019 5:26:27 AM	S61259
Xylenes, Total	ND	1.5		µg/L	1	7/10/2019 5:26:27 AM	S61259
Surr: 1,2-Dichloroethane-d4	84.3	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259
Surr: Dibromofluoromethane	90.9	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259
Surr: Toluene-d8	92.1	70-130		%Rec	1	7/10/2019 5:26:27 AM	S61259

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907167**

11-Jul-19

Client: Earth Con

Project: Earth Con TWP Roswell Station 9

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **PBW** Batch ID: **S61259** RunNo: **61259**

Prep Date: Analysis Date: **7/10/2019** SeqNo: **2076556** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.0	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130			
Surr: Dibromofluoromethane	9.1		10.00		90.6	70	130			
Surr: Toluene-d8	9.5		10.00		94.8	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **LCSW** Batch ID: **S61259** RunNo: **61259**

Prep Date: Analysis Date: **7/9/2019** SeqNo: **2078514** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.8	70	130			
Toluene	18	1.0	20.00	0	91.2	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.6	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.8	70	130			
Surr: Toluene-d8	9.1		10.00		90.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EARTH CON | Work Order Number: 1907167 | RcptNo: 1

Received By: **Leah Baca** 7/2/2019 10:20:00 AM Leah Baca

Completed By: **Anne Thorne** 7/3/2019 12:30:15 PM Anne Thorne

Reviewed By: LB 7/3/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preserved added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? ~~Yes~~ ☑ No ☑ No VOA Vials ☐ YG 7/3/19
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

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

Adjusted? _____

Checked by: YG 7/3/19

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Yes			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc
ATTN: Jordan French
Mailing Address: 1550 Westoak Parkway #106
Marietta GA 30062
Phone #: 770.973.2100
email or Fax#: 770.973.7395 JFrench@earthcon.com
QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)
Accreditation ☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time: ☑ Standard ☐ Rush _____
Project Name: EarthCon TWP Roswell Station 9
Project #: GW Monitoring 2019 TWP Roswell Station 9
Project Manager: JD Haines, PG
Sampler: CM Barnhill, PG
On Ice: ☑ Yes ☐ No
Sample Temperature: (1) 3.8 + CF 0.0 = 3.8C

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1907167	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX 8260				Air Bubbles (Y or N)
06/29/19	1900	H_2O	SVE MW-27	3x 40mL VOA's	HCl	-001												X				N
06/29/19	1900	H_2O	MW-27 Field Blank	3x 40mL VOA's	HCl	-002												X				N

Date	Time	Relinquished by:	Received by:	Date	Time
06/30/19	0645				
			Received by: UPS	Date	Time
			LeMR	7/2/19	1020

Remarks: Any Questions? Please Call CMB @ 575.626.1615

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 26, 2020

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: TWP Roswell Station 9 EarthCon Consultants OrderNo.: 1911C67

Dear JD Haines:

Hall Environmental Analysis Laboratory received 11 sample(s) on 11/27/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 04, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-37
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/20/2019 1:47:00 PM
Lab ID: 1911C67-001
Matrix: AQUEOUS
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 2:08:27 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 2:08:27 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 2:08:27 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 2:08:27 PM	R64839
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	1	11/27/2019 2:08:27 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-37 Duplicate
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/20/2019 1:47:00 PM
Lab ID: 1911C67-002 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 3:34:09 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 3:34:09 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 3:34:09 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 3:34:09 PM	R64839
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839
Surr: Dibromofluoromethane	103	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 3:34:09 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-34
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/20/2019 3:00:00 PM
Lab ID: 1911C67-003 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 4:02:43 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 4:02:43 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 4:02:43 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 4:02:43 PM	R64839
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839
Surr: Dibromofluoromethane	110	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839
Surr: Toluene-d8	106	70-130		%Rec	1	11/27/2019 4:02:43 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-35
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/21/2019 12:11:00 PM
Lab ID: 1911C67-004 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 4:31:18 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 4:31:18 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 4:31:18 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 4:31:18 PM	R64839
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839
Surr: Dibromofluoromethane	102	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	1	11/27/2019 4:31:18 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-32
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/25/2019 2:02:00 PM
Lab ID: 1911C67-005 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 4:59:56 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 4:59:56 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 4:59:56 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 4:59:56 PM	R64839
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839
Surr: Dibromofluoromethane	103	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	1	11/27/2019 4:59:56 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-32 Duplicate
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/25/2019 2:02:00 PM
Lab ID: 1911C67-006 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 5:28:31 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 5:28:31 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 5:28:31 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 5:28:31 PM	R64839
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839
Surr: Dibromofluoromethane	106	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 5:28:31 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-29
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/25/2019 4:05:00 PM
Lab ID: 1911C67-007
Matrix: AQUEOUS
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 5:57:05 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 5:57:05 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 5:57:05 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 5:57:05 PM	R64839
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839
Surr: Dibromofluoromethane	106	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 5:57:05 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27 Equipment Rinsate
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/26/2019 9:05:00 AM
Lab ID: 1911C67-008 **Matrix:** AQUEOUS **Received Date:** 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 6:25:37 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 6:25:37 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 6:25:37 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 6:25:37 PM	R64839
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839
Surr: Dibromofluoromethane	105	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839
Surr: Toluene-d8	105	70-130		%Rec	1	11/27/2019 6:25:37 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-21
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/26/2019 11:00:00 AM
Lab ID: 1911C67-009
Matrix: AQUEOUS
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 6:54:09 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 6:54:09 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 6:54:09 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 6:54:09 PM	R64839
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839
Surr: Dibromofluoromethane	108	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839
Surr: Toluene-d8	102	70-130		%Rec	1	11/27/2019 6:54:09 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date: 11/26/2019 9:50:00 AM
Lab ID: 1911C67-010
Matrix: AQUEOUS
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	2.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Toluene	ND	2.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Ethylbenzene	ND	2.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Xylenes, Total	ND	3.0		µg/L	2	11/27/2019 7:22:41 PM	R64839
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	2	11/27/2019 7:22:41 PM	R64839
Surr: 4-Bromofluorobenzene	66.0	70-130	S	%Rec	2	11/27/2019 7:22:41 PM	R64839
Surr: Dibromofluoromethane	112	70-130		%Rec	2	11/27/2019 7:22:41 PM	R64839
Surr: Toluene-d8	103	70-130		%Rec	2	11/27/2019 7:22:41 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1911C67**
Date Reported: **2/26/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9 EarthCon Consul
Collection Date:
Lab ID: 1911C67-011
Matrix: TRIP BLANK
Received Date: 11/27/2019 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	11/27/2019 7:51:09 PM	R64839
Toluene	ND	1.0		µg/L	1	11/27/2019 7:51:09 PM	R64839
Ethylbenzene	ND	1.0		µg/L	1	11/27/2019 7:51:09 PM	R64839
Xylenes, Total	ND	1.5		µg/L	1	11/27/2019 7:51:09 PM	R64839
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839
Surr: Dibromofluoromethane	102	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839
Surr: Toluene-d8	104	70-130		%Rec	1	11/27/2019 7:51:09 PM	R64839

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C67**
26-Feb-20

Client: Earth Con
Project: TWP Roswell Station 9 EarthCon Consultants

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222891** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.2	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.5	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **1911c67-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-37**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222901** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	70	130			
Toluene	20	1.0	20.00	0	99.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.8	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.3	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		99.8	70	130			

Sample ID: **1911c67-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-37**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222902** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.0	70	130	2.99	20	
Toluene	19	1.0	20.00	0	93.2	70	130	6.50	20	
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.3		10.00		92.9	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		107	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.4	70	130	0	0	

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R64839**	RunNo: **64839**
Prep Date:	Analysis Date: **11/27/2019**	SeqNo: **2222918** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1911C67**
26-Feb-20

Client: Earth Con
Project: TWP Roswell Station 9 EarthCon Consultants

Sample ID: **rb1** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R64839** RunNo: **64839**
Prep Date: Analysis Date: **11/27/2019** SeqNo: **2222918** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.3	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.1	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R64875** RunNo: **64875**
Prep Date: Analysis Date: **12/2/2019** SeqNo: **2224105** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.8	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.1	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **rb1** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R64875** RunNo: **64875**
Prep Date: Analysis Date: **12/2/2019** SeqNo: **2224108** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.0	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		88.8	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **1911C67** RcptNo: **1**

Received By: **Isaiah Ortiz** **11/27/2019 10:05:00 AM** I-OX

Completed By: **Isaiah Ortiz** **11/27/2019 10:42:19 AM** I-OX

Reviewed By: ENM 11/27/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑

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

    Adjusted? ____

    Checked by: JR 11/27/19

    MH 12/4/19
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

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

    Person Notified: ____ Date: ____

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

    Regarding: ____

    Client Instructions: ____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Not Present			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc
ATTN: JHames, SDiamond
Mailing Address: 1550 West Oak Parkway Bldg 100 Suite 106, Marietta Ga 30062
Phone #: 770.973.2100
email or Fax#: JHames@earthCon.com
QA/QC Package: SDiamond@earthCon.com
☐ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: EarthCon Consultants Inc - TWP Roswell Station 7
Project #: 02.2012.008700 GW Monitoring 2019
Project Manager: J.D. Hames, PE
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature: 4302 (CF) 4.1°C

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1911C67
11/20/19	1347	H_2O	MW-37	5x40mL VOAs	HCl	-001
11/20/19	1347	H_2O	MW-37 Duplicate			-002
11/20/19	1500	H_2O	MW-34			-003
11/21/19	12:11	H_2O	MW-35			-004
11/25/19	14:02	H_2O	MW-32			-005
11/25/19	14:02	H_2O	MW-32 Duplicate			-006
11/25/19	16:05	H_2O	MW-29			-007
11/26/19	0905	H_2O	MW-27 Equipment Rinsate			-008
11/26/19	11:00	H_2O	MW-21			-009
11/26/19	0950	H_2O	MW-27			-010
			Trip Blank	2x40mL VOAs	HCl	-011

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX 8260				Air Bubbles (Y or N)
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N
											X				N

Date: 11/26/19 Time: 1635 Relinquished by:
Date: Time: Relinquished by:

Received by: -0- CPS Date: 11/27/19 Time: 1005
Received by: Date: Time:

Remarks: Any Questions Please call CMB @ 575.626.1615

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 21, 2020

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2001727

Dear JD Haines:

Hall Environmental Analysis Laboratory received 20 sample(s) on 1/18/2020 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-13
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 4:20:00 PM
Lab ID: 2001727-001 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 10:07:00 AM	SL65905
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905
Surr: Toluene-d8	96.2	70-130		%Rec	1	1/20/2020 10:07:00 AM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-14
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 9:41:00 AM
Lab ID: 2001727-002 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 10:31:00 AM	SL65905
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905
Surr: Dibromofluoromethane	94.4	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905
Surr: Toluene-d8	106	70-130		%Rec	1	1/20/2020 10:31:00 AM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-14 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 9:41:00 AM
Lab ID: 2001727-003 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 10:54:00 AM	SL65905
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905
Surr: Toluene-d8	85.0	70-130		%Rec	1	1/20/2020 10:54:00 AM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-004 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1-Dichloroethene	1.1	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-004 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 11:18:00 AM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 11:18:00 AM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 11:18:00 AM	R65905
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905
Surr: Toluene-d8	95.6	70-130		%Rec	1	1/20/2020 11:18:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-005 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 2:31:00 PM
Lab ID: 2001727-005 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 11:42:00 AM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 11:42:00 AM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 11:42:00 AM	R65905
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905
Surr: Dibromofluoromethane	95.9	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905
Surr: Toluene-d8	94.8	70-130		%Rec	1	1/20/2020 11:42:00 AM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-006 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1-Dichloroethane	7.4	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1-Dichloroethene	2.5	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-006 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 12:06:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 12:06:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 12:06:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905
Surr: Toluene-d8	95.1	70-130		%Rec	1	1/20/2020 12:06:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-007 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1-Dichloroethane	7.3	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1-Dichloroethene	2.5	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 3:21:00 PM
Lab ID: 2001727-007 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 12:30:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 12:30:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 12:30:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905
Surr: Toluene-d8	94.5	70-130		%Rec	1	1/20/2020 12:30:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-24D
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 10:35:00 AM
Lab ID: 2001727-008 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 12:53:00 PM	SL65905
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905
Surr: Dibromofluoromethane	94.2	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905
Surr: Toluene-d8	106	70-130		%Rec	1	1/20/2020 12:53:00 PM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-24D Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 10:35:00 AM
Lab ID: 2001727-009 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Toluene	ND	1.0		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 1:17:00 PM	SL65905
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905
Surr: Dibromofluoromethane	94.8	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905
Surr: Toluene-d8	90.9	70-130		%Rec	1	1/20/2020 1:17:00 PM	SL65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 4:21:00 PM
Lab ID: 2001727-010 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1-Dichloroethane	9.1	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1-Dichloroethene	45	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/6/2020 4:21:00 PM
Lab ID: 2001727-010 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 1:41:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 1:41:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 1:41:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905
Surr: Dibromofluoromethane	98.5	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905
Surr: Toluene-d8	115	70-130		%Rec	1	1/20/2020 1:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 11:45:00 AM
Lab ID: 2001727-011 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1-Dichloroethane	3.7	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1-Dichloroethene	24	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/7/2020 11:45:00 AM
Lab ID: 2001727-011 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 2:05:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 2:05:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 2:05:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905
Surr: Toluene-d8	94.8	70-130		%Rec	1	1/20/2020 2:05:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:15:00 AM
Lab ID: 2001727-012 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:15:00 AM
Lab ID: 2001727-012 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 2:29:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 2:29:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 2:29:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905
Surr: Toluene-d8	110	70-130		%Rec	1	1/20/2020 2:29:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:41:00 AM
Lab ID: 2001727-013 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1-Dichloroethene	1.1	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 10:41:00 AM
Lab ID: 2001727-013 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 2:53:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 2:53:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 2:53:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905
Surr: Toluene-d8	85.7	70-130		%Rec	1	1/20/2020 2:53:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 9:50:00 AM
Lab ID: 2001727-014 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1-Dichloroethene	1.4	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 9:50:00 AM
Lab ID: 2001727-014 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 3:17:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 3:17:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 3:17:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905
Surr: Toluene-d8	87.2	70-130		%Rec	1	1/20/2020 3:17:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 9:50:00 AM
Lab ID: 2001727-015 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1-Dichloroethene	1.5	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Project: Earth Con Consultants Inc TWP Roswell
Lab ID: 2001727-015 **Matrix:** AQUEOUS

Client Sample ID: MW-42 Duplicate
Collection Date: 1/8/2020 9:50:00 AM
Received Date: 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 3:41:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 3:41:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 3:41:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905
Surr: Toluene-d8	93.7	70-130		%Rec	1	1/20/2020 3:41:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 2:22:00 PM
Lab ID: 2001727-016 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	1.5	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1-Dichloroethane	2.2	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 2:22:00 PM
Lab ID: 2001727-016 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 4:04:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 4:04:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 4:04:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905
Surr: Toluene-d8	95.6	70-130		%Rec	1	1/20/2020 4:04:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Project: Earth Con Consultants Inc TWP Roswell
Lab ID: 2001727-017 **Matrix:** AQUEOUS

Client Sample ID: SVE-28 Equipment Rinsate
Collection Date: 1/8/2020 2:22:00 PM
Received Date: 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28 Equipment Rinsate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 2:22:00 PM
Lab ID: 2001727-017 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 4:28:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 4:28:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 4:28:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905
Surr: Toluene-d8	94.4	70-130		%Rec	1	1/20/2020 4:28:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:40:00 PM
Lab ID: 2001727-018 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	8.9	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Toluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Ethylbenzene	29	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,4-Trimethylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Naphthalene	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
1-Methylnaphthalene	ND	20		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Methylnaphthalene	ND	20		µg/L	5	1/20/2020 4:52:00 PM	R65905
Acetone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromodichloromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromoform	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Bromomethane	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Butanone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Carbon disulfide	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Carbon Tetrachloride	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chloroethane	14	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chloroform	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Chloromethane	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Chlorotoluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
4-Chlorotoluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
cis-1,2-DCE	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Dibromochloromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Dibromomethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,3-Dichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,4-Dichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Dichlorodifluoromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1-Dichloroethane	32	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1-Dichloroethene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2-Dichloropropane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,3-Dichloropropane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
2,2-Dichloropropane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:40:00 PM
Lab ID: 2001727-018 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Hexachlorobutadiene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
2-Hexanone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Isopropylbenzene	7.7	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
4-Isopropyltoluene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
4-Methyl-2-pentanone	ND	50		µg/L	5	1/20/2020 4:52:00 PM	R65905
Methylene Chloride	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
n-Butylbenzene	ND	15		µg/L	5	1/20/2020 4:52:00 PM	R65905
n-Propylbenzene	6.4	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
sec-Butylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Styrene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
tert-Butylbenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
trans-1,2-DCE	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,1-Trichloroethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,1,2-Trichloroethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Trichloroethene (TCE)	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Trichlorofluoromethane	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
1,2,3-Trichloropropane	ND	10		µg/L	5	1/20/2020 4:52:00 PM	R65905
Vinyl chloride	ND	5.0		µg/L	5	1/20/2020 4:52:00 PM	R65905
Xylenes, Total	ND	7.5		µg/L	5	1/20/2020 4:52:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905
Surr: Dibromofluoromethane	93.7	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905
Surr: Toluene-d8	116	70-130		%Rec	5	1/20/2020 4:52:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:22:00 PM
Lab ID: 2001727-019 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	26	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Ethylbenzene	1.5	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
cis-1,2-DCE	1.0	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1-Dichloroethane	4.3	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 1/8/2020 3:22:00 PM
Lab ID: 2001727-019 **Matrix:** AQUEOUS **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 5:16:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 5:16:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 5:16:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905
Surr: Dibromofluoromethane	92.8	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905
Surr: Toluene-d8	74.7	70-130		%Rec	1	1/20/2020 5:16:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 2001727-020 **Matrix:** TRIP BLANK **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Toluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Ethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Naphthalene	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Acetone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromoform	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Bromomethane	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Butanone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Carbon disulfide	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chloroethane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chloroform	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Chloromethane	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Dibromomethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2001727**
Date Reported: **1/21/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Client Sample ID:** TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell **Collection Date:**
Lab ID: 2001727-020 **Matrix:** TRIP BLANK **Received Date:** 1/18/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
2-Hexanone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2020 5:39:00 PM	R65905
Methylene Chloride	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Styrene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Vinyl chloride	ND	1.0		µg/L	1	1/20/2020 5:39:00 PM	R65905
Xylenes, Total	ND	1.5		µg/L	1	1/20/2020 5:39:00 PM	R65905
Surr: 1,2-Dichloroethane-d4	99.5	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905
Surr: Toluene-d8	94.2	70-130		%Rec	1	1/20/2020 5:39:00 PM	R65905

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263271** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.4	70	130			
Toluene	20	1.0	20.00	0	97.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.2	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263272** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.8	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **2001727-001ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-13** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263970** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.1	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: **2001727-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-13** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263971** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130	0.0890	20	
Toluene	19	1.0	20.00	0	96.9	70	130	1.96	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **2001727-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-13** Batch ID: **SL65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263971** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.3	70	130	0	0	
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130	0	0	
Surr: Toluene-d8	9.5		10.00		95.3	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263310** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.4	70	130			
Toluene	20	1.0	20.00	0	97.6	70	130			
Chlorobenzene	20	1.0	20.00	0	98.5	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.3	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.2	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263311** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R65905**	RunNo: **65905**	
Prep Date:	Analysis Date: **1/20/2020**	SeqNo: **2263311**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2001727**
21-Jan-20

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R65905** RunNo: **65905**
Prep Date: Analysis Date: **1/20/2020** SeqNo: **2263311** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.8	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **2001727** RcptNo: 1

Received By: **John Caldwell** **1/18/2020 8:20:00 AM** John Caldwell

Completed By: **Erin Melendrez** **1/18/2020 10:25:03 AM**

Reviewed By: DAD 1/20/20

Chain of Custody

1. Is Chain of Custody sufficiently complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Client		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

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

Adjusted? _____

Checked by: ENM 1/18/20

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good				

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: Earth Con Consultants, Inc.
ATTN: J Haines & S Diamond
Mailing Address: 1880 West Oak Parkway Bldg. 100 Suite 106, Marietta Ga 30062
Phone #: 770.973.2100
email or Fax#: JHaines@earthcon.com
QA/QC Package: Sdiamond@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush
Project Name: Earth Con Consultants Inc. TWP Roswell Station #9
Project #: 02.2012.003700 GW Monitoring 2019
Project Manager: JD Haines, PG
Sampler: CM Barnhill, PG
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.8+0.1(CF)=3.9(°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2001727	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260(VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260
01/08/20	1620	H_2O	MW-13	3x40ml VOA's	HCl	-001											X
01/07/20	0941	H_2O	MW-14			-002											X
01/07/20	0941	H_2O	MW-14 Duplicate			-003											X
01/06/20	14:31	H_2O	MW-22			-004								X			
01/06/20	14:31	H_2O	MW-22 Equipment Rinsate			-005								X			
01/06/20	15:21	H_2O	MW-20			-006								X			
01/06/20	15:21	H_2O	MW-20 Duplicate			-007								X			
01/07/20	10:35	H_2O	MW-24D			-008											X
01/07/20	10:35	H_2O	MW-24D Equipment Rinsate			-009											X
01/06/20	16:21	H_2O	MW-26			-010								X			
01/07/20	11:45	H_2O	MW-39			-011								X			
01/08/20	10:15	H_2O	MW-40			-012								X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/16/20	0820				1-16-20	0820
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Any Questions? Please Call CMB @ 575.626.161[illegible]

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

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

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

Client: EarthCon Consultants, Inc.
ATTN: J Haines & S Diamond
Mailing Address: 1660 West Oak Parkway Bldg 100 Suite 106, Marietta, Ga 30062
Phone #: 770.973.2100
email or Fax#: JHaines@earthcon.com
QA/QC Package: SDiamond@earthcon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☑ Standard ☐ Rush
Project Name: EarthCon Consultants, Inc TWP Roswell Station #9
Project #: 02.2012.003200 GW Monitoring 2019
Project Manager: J Haines, PG
Sampler: CM Barnhill PG
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.8+0.1(CF)=3.9 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2001727
01/08/20	10:41	H_2O	MW-41	3x40mL VOA's	HCl	-013
01/08/20	0930	H_2O	MW-42			-014
01/08/20	0950	H_2O	MW-42 Duplicate			-015
01/08/20	14:22	H_2O	SVE-28			-016
01/08/20	14:22	H_2O	SVE-28 Equipment Rinsate			-017
01/08/20	15:40	H_2O	SVE-30			-018
01/08/20	15:22	H_2O	RW-1			-019
			Trip Blank	2x40mL VOA's	HCl	-020

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260
							X			
							X			
							X			
							X			
							X			
							X			
							X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/15/20	0820				1.18.20	0820
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Any Questions? Please Call CMB @ 575.626.1615

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

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-10
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 2:25:00 PM
Lab ID: 2002590-001 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 12:25:34 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 12:25:34 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 12:25:34 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 12:25:34 PM	R66589
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589
Surr: Dibromofluoromethane	109	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589
Surr: Toluene-d8	109	70-130		%Rec	1	2/17/2020 12:25:34 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-10 Duplicate
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 2:25:00 PM
Lab ID: 2002590-002 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 12:55:32 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 12:55:32 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 12:55:32 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 12:55:32 PM	R66589
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589
Surr: Dibromofluoromethane	108	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589
Surr: Toluene-d8	104	70-130		%Rec	1	2/17/2020 12:55:32 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-11
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:00:00 PM
Lab ID: 2002590-003 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 1:24:51 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 1:24:51 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 1:24:51 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 1:24:51 PM	R66589
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589
Surr: Dibromofluoromethane	110	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589
Surr: Toluene-d8	104	70-130		%Rec	1	2/17/2020 1:24:51 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-11 Equipment Blank
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:00:00 PM
Lab ID: 2002590-004 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 1:54:44 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 1:54:44 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 1:54:44 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 1:54:44 PM	R66589
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589
Surr: Dibromofluoromethane	107	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589
Surr: Toluene-d8	103	70-130		%Rec	1	2/17/2020 1:54:44 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-17
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:40:00 PM
Lab ID: 2002590-005 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 11:56:04 AM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 11:56:04 AM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 11:56:04 AM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 11:56:04 AM	R66589
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589
Surr: Dibromofluoromethane	104	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589
Surr: Toluene-d8	108	70-130		%Rec	1	2/17/2020 11:56:04 AM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2002590**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Field Blank
Project: TWP Roswell Station 9
Collection Date: 2/13/2020 3:45:00 PM
Lab ID: 2002590-006 **Matrix:** AQUEOUS **Received Date:** 2/14/2020 12:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/17/2020 2:24:03 PM	R66589
Toluene	ND	1.0		µg/L	1	2/17/2020 2:24:03 PM	R66589
Ethylbenzene	ND	1.0		µg/L	1	2/17/2020 2:24:03 PM	R66589
Xylenes, Total	ND	1.5		µg/L	1	2/17/2020 2:24:03 PM	R66589
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589
Surr: Dibromofluoromethane	114	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589
Surr: Toluene-d8	103	70-130		%Rec	1	2/17/2020 2:24:03 PM	R66589

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Appendix C

Analytical Data Packages – SVE and Groundwater Treatment System Sampling

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 27, 2019

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: TWP Roswell Station 9 Earthcon Consultants Inc. OrderNo.: 1909899

Dear JD Haines:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/17/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 1:45:00 PM
Lab ID: 1909899-001 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	4600	100		µg/L	100	9/19/2019 3:33:32 PM	B63046
Toluene	5400	100		µg/L	100	9/19/2019 3:33:32 PM	B63046
Ethylbenzene	240	100		µg/L	100	9/19/2019 3:33:32 PM	B63046
Xylenes, Total	2300	200		µg/L	100	9/19/2019 3:33:32 PM	B63046
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	100	9/19/2019 3:33:32 PM	B63046

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Air Stripper
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 1:55:00 PM
Lab ID: 1909899-002 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	5.0	1.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Toluene	6.2	1.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Xylenes, Total	3.6	2.0		µg/L	1	9/19/2019 6:17:36 PM	B63046
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	9/19/2019 6:17:36 PM	B63046

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GAC's
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:00:00 PM
Lab ID: 1909899-003 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.1	1.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Toluene	ND	1.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Xylenes, Total	ND	2.0		µg/L	1	9/19/2019 6:41:01 PM	B63046
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	9/19/2019 6:41:01 PM	B63046

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:10:00 PM
Lab ID: 1909899-004 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Fluoride	0.98	0.10		mg/L	1	9/18/2019 5:05:18 AM	A63001
Chloride	440	25	*	mg/L	50	9/24/2019 1:56:05 AM	A63112
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	9/18/2019 5:17:38 AM	A63001
Bromide	0.30	0.10		mg/L	1	9/18/2019 5:05:18 AM	A63001
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	9/18/2019 5:05:18 AM	A63001
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	9/24/2019 1:43:13 AM	A63112
Sulfate	800	10	*	mg/L	20	9/18/2019 5:17:38 AM	A63001
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **bcv**	
Calcium	290	10		mg/L	10	9/24/2019 4:35:32 PM	B63181
Magnesium	110	10		mg/L	10	9/24/2019 4:35:32 PM	B63181
Potassium	2.2	1.0		mg/L	1	9/24/2019 4:33:27 PM	B63181
Sodium	220	10		mg/L	10	9/24/2019 4:35:32 PM	B63181
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Toluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Naphthalene	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Acetone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromodichloromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromoform	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Bromomethane	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Butanone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Carbon disulfide	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Carbon Tetrachloride	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chloroethane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chloroform	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Chloromethane	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
4-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:10:00 PM
Lab ID: 1909899-004 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
cis-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Dibromochloromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Dibromomethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1-Dichloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1-Dichloroethene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,3-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2,2-Dichloropropane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Hexachlorobutadiene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
2-Hexanone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Isopropylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
4-Isopropyltoluene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
4-Methyl-2-pentanone	ND	10		µg/L	1	9/19/2019 6:41:31 PM	A63060
Methylene Chloride	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
n-Butylbenzene	ND	3.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
n-Propylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
sec-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Styrene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
tert-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
trans-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Trichlorofluoromethane	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/19/2019 6:41:31 PM	A63060
Vinyl chloride	ND	1.0		µg/L	1	9/19/2019 6:41:31 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date: 9/16/2019 2:10:00 PM
Lab ID: 1909899-004 **Matrix:** AQUEOUS **Received Date:** 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Xylenes, Total	ND	1.5		µg/L	1	9/19/2019 6:41:31 PM	A63060
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060
Surr: Toluene-d8	103	70-130		%Rec	1	9/19/2019 6:41:31 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date:
Lab ID: 1909899-005
Matrix: TRIP BLANK
Received Date: 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Toluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Ethylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Naphthalene	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Methylnaphthalene	ND	4.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Acetone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromodichloromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromoform	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Bromomethane	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Butanone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Carbon disulfide	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Carbon Tetrachloride	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chloroethane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chloroform	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Chloromethane	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
4-Chlorotoluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
cis-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Dibromochloromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Dibromomethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1-Dichloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1-Dichloroethene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,3-Dichloropropane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2,2-Dichloropropane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1909899**
Date Reported: **9/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9 Earthcon Consult
Collection Date:
Lab ID: 1909899-005
Matrix: TRIP BLANK
Received Date: 9/17/2019 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Hexachlorobutadiene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
2-Hexanone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Isopropylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
4-Isopropyltoluene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
4-Methyl-2-pentanone	ND	10		µg/L	1	9/19/2019 8:08:19 PM	A63060
Methylene Chloride	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
n-Butylbenzene	ND	3.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
n-Propylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
sec-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Styrene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
tert-Butylbenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
trans-1,2-DCE	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Trichlorofluoromethane	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Vinyl chloride	ND	1.0		µg/L	1	9/19/2019 8:08:19 PM	A63060
Xylenes, Total	ND	1.5		µg/L	1	9/19/2019 8:08:19 PM	A63060
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060
Surr: Toluene-d8	99.7	70-130		%Rec	1	9/19/2019 8:08:19 PM	A63060

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **MB-B**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B63181**	RunNo: **63181**
Prep Date:	Analysis Date: **9/24/2019**	SeqNo: **2155515** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS-B**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B63181**	RunNo: **63181**
Prep Date:	Analysis Date: **9/24/2019**	SeqNo: **2155517** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	112	50	150			
Magnesium	ND	1.0	0.5000	0	104	50	150			
Potassium	ND	1.0	0.5000	0	96.0	50	150			
Sodium	ND	1.0	0.5000	0	110	50	150			

Sample ID: **LCS-B**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B63181**	RunNo: **63181**
Prep Date:	Analysis Date: **9/24/2019**	SeqNo: **2155519** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	50	1.0	50.00	0	99.9	85	115			
Sodium	50	1.0	50.00	0	99.4	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A63001**	RunNo: **63001**
Prep Date:	Analysis Date: **9/18/2019**	SeqNo: **2147883** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A63001**	RunNo: **63001**
Prep Date:	Analysis Date: **9/18/2019**	SeqNo: **2147884** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.0	90	110			
Nitrogen, Nitrite (As N)	0.93	0.10	1.000	0	93.4	90	110			
Bromide	2.4	0.10	2.500	0	95.4	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	95.8	90	110			
Sulfate	9.4	0.50	10.00	0	94.2	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A63112**	RunNo: **63112**
Prep Date:	Analysis Date: **9/23/2019**	SeqNo: **2154081** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A63112**	RunNo: **63112**
Prep Date:	Analysis Date: **9/23/2019**	SeqNo: **2154082** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.1	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**

27-Sep-19

Client: Earth Con

Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B63046**	RunNo: **63046**
Prep Date:	Analysis Date: **9/19/2019**	SeqNo: **2150207** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		92.9	80	120			

Sample ID: **100NG BTEX LCSB**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B63046**	RunNo: **63046**
Prep Date:	Analysis Date: **9/19/2019**	SeqNo: **2150208** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.3	80	120			
Toluene	20	1.0	20.00	0	98.0	80	120			
Ethylbenzene	20	1.0	20.00	0	98.2	80	120			
Xylenes, Total	59	2.0	60.00	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		97.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **A63060**	RunNo: **63060**	
Prep Date:	Analysis Date: **9/19/2019**	SeqNo: **2150226**	Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150226** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	8.0		10.00		80.0	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	115	70	130			
Toluene	19	1.0	20.00	0	94.5	70	130			
Chlorobenzene	18	1.0	20.00	0	91.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1909899**
27-Sep-19

Client: Earth Con
Project: TWP Roswell Station 9 Earthcon Consultants In

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150227** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16	1.0	20.00	0	82.4	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	91.5	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	8.3		10.00		82.8	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Sample ID: **1909899-004a ms** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Post Treatment** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150259** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	70	130			
Toluene	19	1.0	20.00	0	92.5	70	130			
Chlorobenzene	18	1.0	20.00	0	88.2	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	81.5	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	88.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	8.0		10.00		79.9	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID: **1909899-004a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Post Treatment** Batch ID: **A63060** RunNo: **63060**
Prep Date: Analysis Date: **9/19/2019** SeqNo: **2150260** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	70	130	4.86	20	
Toluene	18	1.0	20.00	0	90.6	70	130	2.09	20	
Chlorobenzene	17	1.0	20.00	0	87.2	70	130	1.13	20	
1,1-Dichloroethene	15	1.0	20.00	0	77.4	70	130	5.05	20	
Trichloroethene (TCE)	17	1.0	20.00	0	83.1	70	130	6.39	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	7.9		10.00		79.2	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	9.6		10.00		95.8	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **1909899** RcptNo: **1**

Received By: **Yazmine Garduno** **9/17/2019 9:55:00 AM**

Completed By: **Desiree Dominguez** **9/17/2019 4:11:30 PM**

Reviewed By: ENM 9/17/19 300combo
ENM 9/18/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

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

# of preserved bottles checked for pH: 1 (2) (<2 or >12 unless noted)
Adjusted? no / no
300ml combo
Checked by: YG 9/17/19

DM 9/18/19

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Not Present			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: JHaines, JFrench, J. Wilson
Mailing Address: 880 West Oak Parkway Bldg 100 Suite 106, Marietta Ga. 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: JFrench@earthcon.com JHaines@earthcon.com
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush
Project Name: EarthCon Consultants, Inc. TWP Roswell Station #9
Project #: 02.2012.0037.00 Monthly Discharge Water Sampling September 2019
Project Manager: JD Haines, P.E.
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.4-0.1=3.1 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1909899	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Dissolved metals	Ca, Mg, K, Na	* Field Filtered	0 - Phosphorus	Bromide
09/16/19	13:45	H_2O	Pre-Treatment	3x40mL VOA's	HCL	-001	X														
09/16/19	13:55	H_2O	Post Air Stripper	3x40mL VOA's	HCL	-002	X														
09/16/19	1400	H_2O	Between GAC's	3x40mL VOA's	HCL	-003	X														
09/16/19	1410	H_2O	Post Treatment	3x40mL VOA's	HCL	-004							X	X			X	X	X	X	X
			* HNO_3 Field Filtered	1x125mL HDPE	H_2SO_4 / HNO_3																
				1x500mL HDPE	None																
		H_2O	** Trip Blank	1x40mL VOA	HCL	-005															

Remarks: Any Questions Please Call CMB 575.626.1615 Send Results ASAP To: JFrench@earthcon.com JHaines@earthcon.com

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
09/16/19	16:10					
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			VN	UPS	9/17/19	0955

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 18, 2019

JD Haines

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 1910F09

Dear JD Haines:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/30/2019 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 10:55:00 AM
Lab ID: 1910F09-001 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	4500	100		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Toluene	5000	100		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Ethylbenzene	190	100		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Xylenes, Total	2200	150		µg/L	100	11/1/2019 3:03:00 PM	SL_W64
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64
Surr: Dibromofluoromethane	98.7	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64
Surr: Toluene-d8	96.2	70-130		%Rec	100	11/1/2019 3:03:00 PM	SL_W64

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Air Stripper
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:00:00 AM
Lab ID: 1910F09-002 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	44	1.0		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Toluene	52	1.0		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Ethylbenzene	1.9	1.0		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Xylenes, Total	36	1.5		µg/L	1	11/1/2019 3:27:00 PM	SL_W64
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64
Surr: Dibromofluoromethane	100	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64
Surr: Toluene-d8	96.9	70-130		%Rec	1	11/1/2019 3:27:00 PM	SL_W64

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GACs
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:05:00 AM
Lab ID: 1910F09-003 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	17	1.0		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Toluene	18	1.0		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Ethylbenzene	ND	1.0		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Xylenes, Total	9.2	1.5		µg/L	1	11/1/2019 3:50:00 PM	SL_W64
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64
Surr: Toluene-d8	95.8	70-130		%Rec	1	11/1/2019 3:50:00 PM	SL_W64

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:10:00 AM
Lab ID: 1910F09-004 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Bromide	0.41	0.10		mg/L	1	10/30/2019 6:22:47 PM	R64108
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	10/30/2019 6:22:47 PM	R64108
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **bcv**	
Calcium	320	5.0		mg/L	5	11/15/2019 10:26:46 AM	A64544
Magnesium	110	5.0		mg/L	5	11/15/2019 10:26:46 AM	A64544
Potassium	2.1	1.0		mg/L	1	11/15/2019 10:24:41 AM	A64544
Sodium	200	5.0		mg/L	5	11/15/2019 10:26:46 AM	A64544
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Toluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Ethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Naphthalene	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Acetone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromodichloromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromoform	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Bromomethane	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Butanone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Carbon disulfide	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Carbon Tetrachloride	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chloroethane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chloroform	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Chloromethane	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
4-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
cis-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Dibromochloromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Dibromomethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 10/29/2019 11:10:00 AM
Lab ID: 1910F09-004 **Matrix:** AQUEOUS **Received Date:** 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1-Dichloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1-Dichloroethene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,3-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2,2-Dichloropropane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Hexachlorobutadiene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
2-Hexanone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Isopropylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
4-Isopropyltoluene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
4-Methyl-2-pentanone	ND	10		µg/L	1	11/1/2019 4:14:00 PM	R64154
Methylene Chloride	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
n-Butylbenzene	ND	3.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
n-Propylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
sec-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Styrene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
tert-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
trans-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Trichlorofluoromethane	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Vinyl chloride	ND	1.0		µg/L	1	11/1/2019 4:14:00 PM	R64154
Xylenes, Total	ND	1.5		µg/L	1	11/1/2019 4:14:00 PM	R64154
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154
Surr: Toluene-d8	95.3	70-130		%Rec	1	11/1/2019 4:14:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 1910F09-005
Matrix: TRIP BLANK
Received Date: 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Toluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Ethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Naphthalene	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Methylnaphthalene	ND	4.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Acetone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromodichloromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromoform	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Bromomethane	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Butanone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Carbon disulfide	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Carbon Tetrachloride	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chloroethane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chloroform	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Chloromethane	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
4-Chlorotoluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
cis-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Dibromochloromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Dibromomethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1-Dichloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1-Dichloroethene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,3-Dichloropropane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2,2-Dichloropropane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1910F09**
Date Reported: **11/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 1910F09-005
Matrix: TRIP BLANK
Received Date: 10/30/2019 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Hexachlorobutadiene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
2-Hexanone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Isopropylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
4-Isopropyltoluene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
4-Methyl-2-pentanone	ND	10		µg/L	1	11/1/2019 4:38:00 PM	R64154
Methylene Chloride	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
n-Butylbenzene	ND	3.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
n-Propylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
sec-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Styrene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
tert-Butylbenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
trans-1,2-DCE	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Trichlorofluoromethane	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Vinyl chloride	ND	1.0		µg/L	1	11/1/2019 4:38:00 PM	R64154
Xylenes, Total	ND	1.5		µg/L	1	11/1/2019 4:38:00 PM	R64154
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154
Surr: Toluene-d8	96.5	70-130		%Rec	1	11/1/2019 4:38:00 PM	R64154

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A64544**	RunNo: **64544**
Prep Date:	Analysis Date: **11/15/2019**	SeqNo: **2210119** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS-A**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A64544**	RunNo: **64544**
Prep Date:	Analysis Date: **11/15/2019**	SeqNo: **2210120** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	105	50	150			
Magnesium	ND	1.0	0.5000	0	101	50	150			
Potassium	ND	1.0	0.5000	0	117	50	150			
Sodium	ND	1.0	0.5000	0	97.6	50	150			

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A64544**	RunNo: **64544**
Prep Date:	Analysis Date: **11/15/2019**	SeqNo: **2210121** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	85	115			
Magnesium	50	1.0	50.00	0	99.4	85	115			
Potassium	50	1.0	50.00	0	99.7	85	115			
Sodium	50	1.0	50.00	0	99.7	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193571** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193572** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.5	0.10	2.500	0	99.5	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	96.5	90	110			

Sample ID: **1910F09-004BMS**	SampType: **ms**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Post-Treatment**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193594** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.8	0.10	2.500	0.4074	95.1	81.9	109			
Phosphorus, Orthophosphate (As P	3.5	0.50	5.000	0	69.4	75.6	113			S

Sample ID: **1910F09-004BMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Post-Treatment**	Batch ID: **R64108**	RunNo: **64108**
Prep Date:	Analysis Date: **10/30/2019**	SeqNo: **2193595** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.8	0.10	2.500	0.4074	94.9	81.9	109	0.101	20	
Phosphorus, Orthophosphate (As P	3.5	0.50	5.000	0	69.9	75.6	113	0.703	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL_W64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2196634** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	93.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.3	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: **rb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL_W64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2196635** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2195980** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	93.3	70	130			
Chlorobenzene	19	1.0	20.00	0	94.9	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.0	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.3	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: **rb1** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R64154** RunNo: **64154**
Prep Date: Analysis Date: **11/1/2019** SeqNo: **2195981** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R64154**	RunNo: **64154**	
Prep Date:	Analysis Date: **11/1/2019**	SeqNo: **2195981**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1910F09**
18-Nov-19

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **rb1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R64154**	RunNo: **64154**	
Prep Date:	Analysis Date: **11/1/2019**	SeqNo: **2195981**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
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B	Analyte detected in the associated Method Blank
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P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **EARTH CON** Work Order Number: **1910F09** RcptNo: **1**

Received By: Juan Rojas **10/30/2019 10:25:00 AM**

Completed By: **Leah Baca** **10/30/2019 10:57:52 AM** Leah S Baca

Reviewed By: DAD 10/30/19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	UPS		

Log In

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

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

Adjusted? yes

Checked by: DM 10/30/19

Special Handling (if applicable)

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

Person Notified: Date

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

Regarding:

Client Instructions:

16. Additional remarks: added ~0.5mL of HNO3 to sample 004C for pH <2. DM 10/30/19

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Not Present			

Released to Imaging: 11/22/2022 9:27:59 AM
Received by OCD: 10/21/2022 8:37:26 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc
ATTN: J. French, J Haines
Mailing Address: 880 West Oak Parkway, Bldg, Suite 106, Marietta, GA 30062
Phone #: 770.973.2100 Ext. 2892
email or Fax#: jfrench@earthcon.com
QA/QC Package: JHaines@earthcon.com
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____
Project Name: Earthcon Consultants, Inc TWP Roswell Station 9
Project #: 02, 2012, 003700 Monthly Discharge Water Sampling October 2019
Project Manager: JD Haines, PE
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
Sample Temperature: 3.9 - 0.4 = 3.5

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1910F09	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F^-, Cl^-, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) Full List	8270 (Semi-VOA)	Dissolved metals	Ca, Mg, K, Na	* Field Filtered	O-phosphorus, Bromide	Air Bubbles (Y or N)
10/29/19	10:35	H_2O	Pre-Treatment	3x40mL VOA's	HCL	-001	X															
10/29/19	11:00	H_2O	Post-Air Stripper	3x40mL VOA's	HCL	-002	X															
10/29/19	11:05	H_2O	Between GAC's	3x40mL VOA's	HCL	-003	X															
10/29/19	11:10	H_2O	Post-Treatment	3x40mL VOA's	HCL	-004								X		X		X	X	X	X	X
			* HNO_3 Field Filtered	2x125mL	HNO_3/H_2SO_4	-005																
				1x125mL	None																	

Date	Time	Relinquished by:	Received by:	Date	Time
10/29/19	1645	[signature]	[signature] UPS	10/30/19	10:25
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send Results ASAP To JHaines@earthcon.com, JFrench@earthcon.com
Any Questions Call CMB @ 5756261

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

Page 73 of 814

18-Apr-2019

Emma Cook
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station 9 Work Order: **1904472**

Dear Emma,

ALS Environmental received 2 samples on 05-Apr-2019 12:12 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 18-Apr-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: **1904472**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1904472-01	TWP West Baker Furnace	Air		4/2/2019	4/5/2019 12:12	☐
1904472-02	TWP East Baker Furnace	Air		4/2/2019	4/5/2019 12:12	☐

ALS Environmental

Date: 18-Apr-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: 1904472

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP West Baker Furnace **Lab ID:** 1904472-01
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1-Dichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,1-Dichloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dibromoethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dichloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,2-Dichloropropane	ND		250	ppbv	500	4/12/2019 11:34 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,3-Butadiene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
1,4-Dioxane	ND		500	ppbv	500	4/12/2019 11:34 PM
2-Butanone	ND		250	ppbv	500	4/12/2019 11:34 PM
2-Hexanone	ND		500	ppbv	500	4/12/2019 11:34 PM
2-Propanol	ND		500	ppbv	500	4/12/2019 11:34 PM
4-Ethyltoluene	ND		250	ppbv	500	4/12/2019 11:34 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	4/12/2019 11:34 PM
Acetone	ND		500	ppbv	500	4/12/2019 11:34 PM
Benzene	**680**		**250**	**ppbv**	500	4/12/2019 11:34 PM
Benzyl chloride	ND		250	ppbv	500	4/12/2019 11:34 PM
Bromodichloromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Bromoform	ND		250	ppbv	500	4/12/2019 11:34 PM
Bromomethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Carbon disulfide	ND		250	ppbv	500	4/12/2019 11:34 PM
Carbon tetrachloride	ND		250	ppbv	500	4/12/2019 11:34 PM
Chlorobenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
Chloroethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Chloroform	ND		100	ppbv	500	4/12/2019 11:34 PM
Chloromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	4/12/2019 11:34 PM
Cumene	ND		250	ppbv	500	4/12/2019 11:34 PM
Cyclohexane	**22,000**		**5,000**	**ppbv**	10000	4/12/2019 09:21 PM
Dibromochloromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Dichlorodifluoromethane	ND		250	ppbv	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP West Baker Furnace **Lab ID:** 1904472-01
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	4/12/2019 11:34 PM
Ethylbenzene	ND		250	ppbv	500	4/12/2019 11:34 PM
Freon 113	ND		250	ppbv	500	4/12/2019 11:34 PM
Freon 114	ND		250	ppbv	500	4/12/2019 11:34 PM
Heptane	**11,000**		**250**	**ppbv**	500	4/12/2019 11:34 PM
Hexachlorobutadiene	ND		250	ppbv	500	4/12/2019 11:34 PM
Hexane	**36,000**		**5,000**	**ppbv**	10000	4/12/2019 09:21 PM
m,p-Xylene	**440**		**250**	**ppbv**	500	4/12/2019 11:34 PM
Methylene chloride	ND		1,000	ppbv	500	4/12/2019 11:34 PM
MTBE	ND		250	ppbv	500	4/12/2019 11:34 PM
Naphthalene	ND		100	ppbv	500	4/12/2019 11:34 PM
o-Xylene	ND		250	ppbv	500	4/12/2019 11:34 PM
Propene	ND		250	ppbv	500	4/12/2019 11:34 PM
Styrene	ND		250	ppbv	500	4/12/2019 11:34 PM
Tetrachloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
Tetrahydrofuran	ND		250	ppbv	500	4/12/2019 11:34 PM
Toluene	**910**		**250**	**ppbv**	500	4/12/2019 11:34 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	4/12/2019 11:34 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	4/12/2019 11:34 PM
Trichloroethene	ND		100	ppbv	500	4/12/2019 11:34 PM
Trichlorofluoromethane	ND		250	ppbv	500	4/12/2019 11:34 PM
Vinyl acetate	ND		250	ppbv	500	4/12/2019 11:34 PM
Vinyl chloride	ND		250	ppbv	500	4/12/2019 11:34 PM
Surr: Bromofluorobenzene	*96.2*		*60-140*	*%REC*	500	4/12/2019 11:34 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	4/12/2019 11:34 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	4/12/2019 11:34 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	4/12/2019 11:34 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	4/12/2019 11:34 PM
1,1-Dichloroethene	ND		991	µg/m3	500	4/12/2019 11:34 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	4/12/2019 11:34 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	4/12/2019 11:34 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	4/12/2019 11:34 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	4/12/2019 11:34 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	4/12/2019 11:34 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
1,3-Butadiene	ND		553	µg/m3	500	4/12/2019 11:34 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	4/12/2019 11:34 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP West Baker Furnace **Lab ID:** 1904472-01
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	4/12/2019 11:34 PM
2-Butanone	ND		737	µg/m3	500	4/12/2019 11:34 PM
2-Hexanone	ND		2,050	µg/m3	500	4/12/2019 11:34 PM
2-Propanol	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	4/12/2019 11:34 PM
Acetone	ND		1,190	µg/m3	500	4/12/2019 11:34 PM
Benzene	**2,160**		**799**	**µg/m3**	500	4/12/2019 11:34 PM
Benzyl chloride	ND		1,290	µg/m3	500	4/12/2019 11:34 PM
Bromodichloromethane	ND		1,680	µg/m3	500	4/12/2019 11:34 PM
Bromoform	ND		2,580	µg/m3	500	4/12/2019 11:34 PM
Bromomethane	ND		971	µg/m3	500	4/12/2019 11:34 PM
Carbon disulfide	ND		778	µg/m3	500	4/12/2019 11:34 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	4/12/2019 11:34 PM
Chlorobenzene	ND		1,150	µg/m3	500	4/12/2019 11:34 PM
Chloroethane	ND		660	µg/m3	500	4/12/2019 11:34 PM
Chloroform	ND		488	µg/m3	500	4/12/2019 11:34 PM
Chloromethane	ND		516	µg/m3	500	4/12/2019 11:34 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	4/12/2019 11:34 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/12/2019 11:34 PM
Cumene	ND		1,230	µg/m3	500	4/12/2019 11:34 PM
Cyclohexane	**76,800**		**17,200**	**µg/m3**	10000	4/12/2019 09:21 PM
Dibromochloromethane	ND		2,130	µg/m3	500	4/12/2019 11:34 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	4/12/2019 11:34 PM
Ethyl acetate	ND		901	µg/m3	500	4/12/2019 11:34 PM
Ethylbenzene	ND		1,090	µg/m3	500	4/12/2019 11:34 PM
Freon 113	ND		1,920	µg/m3	500	4/12/2019 11:34 PM
Freon 114	ND		1,750	µg/m3	500	4/12/2019 11:34 PM
Heptane	**46,000**		**1,020**	**µg/m3**	500	4/12/2019 11:34 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	4/12/2019 11:34 PM
Hexane	**127,000**		**17,600**	**µg/m3**	10000	4/12/2019 09:21 PM
m,p-Xylene	**1,910**		**1,090**	**µg/m3**	500	4/12/2019 11:34 PM
Methylene chloride	ND		3,500	µg/m3	500	4/12/2019 11:34 PM
MTBE	ND		901	µg/m3	500	4/12/2019 11:34 PM
Naphthalene	ND		524	µg/m3	500	4/12/2019 11:34 PM
o-Xylene	ND		1,090	µg/m3	500	4/12/2019 11:34 PM
Propene	ND		430	µg/m3	500	4/12/2019 11:34 PM
Styrene	ND		1,060	µg/m3	500	4/12/2019 11:34 PM
Tetrachloroethene	ND		1,700	µg/m3	500	4/12/2019 11:34 PM
Tetrahydrofuran	ND		737	µg/m3	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP West Baker Furnace **Lab ID:** 1904472-01
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**3,430**		**942**	**µg/m3**	500	4/12/2019 11:34 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	4/12/2019 11:34 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/12/2019 11:34 PM
Trichloroethene	ND		537	µg/m3	500	4/12/2019 11:34 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	4/12/2019 11:34 PM
Vinyl acetate	ND		880	µg/m3	500	4/12/2019 11:34 PM
Vinyl chloride	ND		639	µg/m3	500	4/12/2019 11:34 PM
Surr: Bromofluorobenzene	*96.2*		*60-140*	*%REC*	500	4/12/2019 11:34 PM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP East Baker Furnace **Lab ID:** 1904472-02
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1,2-Trichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1-Dichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,1-Dichloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dibromoethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dichloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,2-Dichloropropane	ND		250	ppbv	500	4/13/2019 01:02 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,3-Butadiene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,4-Dichlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
1,4-Dioxane	ND		500	ppbv	500	4/13/2019 01:02 AM
2-Butanone	ND		250	ppbv	500	4/13/2019 01:02 AM
2-Hexanone	ND		500	ppbv	500	4/13/2019 01:02 AM
2-Propanol	ND		500	ppbv	500	4/13/2019 01:02 AM
4-Ethyltoluene	ND		250	ppbv	500	4/13/2019 01:02 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	4/13/2019 01:02 AM
Acetone	**1,200**		**500**	**ppbv**	500	4/13/2019 01:02 AM
Benzene	ND		250	ppbv	500	4/13/2019 01:02 AM
Benzyl chloride	ND		250	ppbv	500	4/13/2019 01:02 AM
Bromodichloromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Bromoform	ND		250	ppbv	500	4/13/2019 01:02 AM
Bromomethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Carbon disulfide	ND		250	ppbv	500	4/13/2019 01:02 AM
Carbon tetrachloride	ND		250	ppbv	500	4/13/2019 01:02 AM
Chlorobenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
Chloroethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Chloroform	ND		100	ppbv	500	4/13/2019 01:02 AM
Chloromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	4/13/2019 01:02 AM
Cumene	ND		250	ppbv	500	4/13/2019 01:02 AM
Cyclohexane	**4,600**		**250**	**ppbv**	500	4/13/2019 01:02 AM
Dibromochloromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Dichlorodifluoromethane	ND		250	ppbv	500	4/13/2019 01:02 AM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP East Baker Furnace **Lab ID:** 1904472-02
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	4/13/2019 01:02 AM
Ethylbenzene	ND		250	ppbv	500	4/13/2019 01:02 AM
Freon 113	ND		250	ppbv	500	4/13/2019 01:02 AM
Freon 114	ND		250	ppbv	500	4/13/2019 01:02 AM
Heptane	**3,500**		**250**	**ppbv**	500	4/13/2019 01:02 AM
Hexachlorobutadiene	ND		250	ppbv	500	4/13/2019 01:02 AM
Hexane	**6,100**		**250**	**ppbv**	500	4/13/2019 01:02 AM
m,p-Xylene	ND		250	ppbv	500	4/13/2019 01:02 AM
Methylene chloride	ND		1,000	ppbv	500	4/13/2019 01:02 AM
MTBE	ND		250	ppbv	500	4/13/2019 01:02 AM
Naphthalene	ND		100	ppbv	500	4/13/2019 01:02 AM
o-Xylene	ND		250	ppbv	500	4/13/2019 01:02 AM
Propene	ND		250	ppbv	500	4/13/2019 01:02 AM
Styrene	ND		250	ppbv	500	4/13/2019 01:02 AM
Tetrachloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
Tetrahydrofuran	ND		250	ppbv	500	4/13/2019 01:02 AM
Toluene	ND		250	ppbv	500	4/13/2019 01:02 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	4/13/2019 01:02 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	4/13/2019 01:02 AM
Trichloroethene	ND		100	ppbv	500	4/13/2019 01:02 AM
Trichlorofluoromethane	ND		250	ppbv	500	4/13/2019 01:02 AM
Vinyl acetate	ND		250	ppbv	500	4/13/2019 01:02 AM
Vinyl chloride	ND		250	ppbv	500	4/13/2019 01:02 AM
Surr: Bromofluorobenzene	*94.0*		*60-140*	*%REC*	500	4/13/2019 01:02 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	4/13/2019 01:02 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	4/13/2019 01:02 AM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	4/13/2019 01:02 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	4/13/2019 01:02 AM
1,1-Dichloroethene	ND		991	µg/m3	500	4/13/2019 01:02 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	4/13/2019 01:02 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
1,2-Dibromoethane	ND		1,920	µg/m3	500	4/13/2019 01:02 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	4/13/2019 01:02 AM
1,2-Dichloroethane	ND		1,010	µg/m3	500	4/13/2019 01:02 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	4/13/2019 01:02 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
1,3-Butadiene	ND		553	µg/m3	500	4/13/2019 01:02 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	4/13/2019 01:02 AM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	4/13/2019 01:02 AM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 1904472
Sample ID: TWP East Baker Furnace **Lab ID:** 1904472-02
Collection Date: 4/2/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	4/13/2019 01:02 AM
2-Butanone	ND		737	µg/m3	500	4/13/2019 01:02 AM
2-Hexanone	ND		2,050	µg/m3	500	4/13/2019 01:02 AM
2-Propanol	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	4/13/2019 01:02 AM
Acetone	**2,890**		**1,190**	**µg/m3**	500	4/13/2019 01:02 AM
Benzene	ND		799	µg/m3	500	4/13/2019 01:02 AM
Benzyl chloride	ND		1,290	µg/m3	500	4/13/2019 01:02 AM
Bromodichloromethane	ND		1,680	µg/m3	500	4/13/2019 01:02 AM
Bromoform	ND		2,580	µg/m3	500	4/13/2019 01:02 AM
Bromomethane	ND		971	µg/m3	500	4/13/2019 01:02 AM
Carbon disulfide	ND		778	µg/m3	500	4/13/2019 01:02 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	4/13/2019 01:02 AM
Chlorobenzene	ND		1,150	µg/m3	500	4/13/2019 01:02 AM
Chloroethane	ND		660	µg/m3	500	4/13/2019 01:02 AM
Chloroform	ND		488	µg/m3	500	4/13/2019 01:02 AM
Chloromethane	ND		516	µg/m3	500	4/13/2019 01:02 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	4/13/2019 01:02 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/13/2019 01:02 AM
Cumene	ND		1,230	µg/m3	500	4/13/2019 01:02 AM
Cyclohexane	**15,800**		**861**	**µg/m3**	500	4/13/2019 01:02 AM
Dibromochloromethane	ND		2,130	µg/m3	500	4/13/2019 01:02 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	4/13/2019 01:02 AM
Ethyl acetate	ND		901	µg/m3	500	4/13/2019 01:02 AM
Ethylbenzene	ND		1,090	µg/m3	500	4/13/2019 01:02 AM
Freon 113	ND		1,920	µg/m3	500	4/13/2019 01:02 AM
Freon 114	ND		1,750	µg/m3	500	4/13/2019 01:02 AM
Heptane	**14,500**		**1,020**	**µg/m3**	500	4/13/2019 01:02 AM
Hexachlorobutadiene	ND		2,670	µg/m3	500	4/13/2019 01:02 AM
Hexane	**21,500**		**881**	**µg/m3**	500	4/13/2019 01:02 AM
m,p-Xylene	ND		1,090	µg/m3	500	4/13/2019 01:02 AM
Methylene chloride	ND		3,500	µg/m3	500	4/13/2019 01:02 AM
MTBE	ND		901	µg/m3	500	4/13/2019 01:02 AM
Naphthalene	ND		524	µg/m3	500	4/13/2019 01:02 AM
o-Xylene	ND		1,090	µg/m3	500	4/13/2019 01:02 AM
Propene	ND		430	µg/m3	500	4/13/2019 01:02 AM
Styrene	ND		1,060	µg/m3	500	4/13/2019 01:02 AM
Tetrachloroethene	ND		1,700	µg/m3	500	4/13/2019 01:02 AM
Tetrahydrofuran	ND		737	µg/m3	500	4/13/2019 01:02 AM

Note:

ALS Environmental

Date: *18-Apr-19*

Client: EarthCon
Project: TWP Roswell Station 9
Sample ID: TWP East Baker Furnace
Collection Date: 4/2/2019

Work Order: 1904472
Lab ID: 1904472-02
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	4/13/2019 01:02 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	4/13/2019 01:02 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	4/13/2019 01:02 AM
Trichloroethene	ND		537	µg/m3	500	4/13/2019 01:02 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	4/13/2019 01:02 AM
Vinyl acetate	ND		880	µg/m3	500	4/13/2019 01:02 AM
Vinyl chloride	ND		639	µg/m3	500	4/13/2019 01:02 AM
Surr: Bromofluorobenzene	*94.0*		*60-140*	*%REC*	500	4/13/2019 01:02 AM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC **

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 1904472-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	157552	PPBV
	TVOC**	555266	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 1904472-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	43627	PPBV
	TVOC**	153755	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 18-Apr-19

Client: EarthCon

Work Order: 1904472

Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R164147** Units: **ppbv** Analysis Date: **4/12/2019 02:34 PM**

Client ID: Run ID: **VMS4_190412A** SeqNo: **1971767** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1904472
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	9.19	0	*10*	0	*91.9*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1904472
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **lcs-R164147** Units: **ppbv** Analysis Date: **4/12/2019 01:05 PM**
Client ID: Run ID: **VMS4_190412A** SeqNo: **1971765** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.72	0.50	10	0	97.2	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.41	0.50	10	0	104	60-140	0			
1,1,2-Trichloroethane	10	0.50	10	0	100	60-140	0			
1,1-Dichloroethane	9.94	0.50	10	0	99.4	60-140	0			
1,1-Dichloroethene	10.09	0.50	10	0	101	60-140	0			
1,2,4-Trichlorobenzene	8.97	0.50	10	0	89.7	49.3-150	0			
1,2,4-Trimethylbenzene	10.32	0.50	10	0	103	50.1-162	0			
1,2-Dibromoethane	10.21	0.50	10	0	102	60-140	0			
1,2-Dichlorobenzene	10.35	0.50	10	0	104	41.9-141	0			
1,2-Dichloroethane	10.11	0.50	10	0	101	60-140	0			
1,2-Dichloropropane	9.61	0.50	10	0	96.1	60-140	0			
1,3,5-Trimethylbenzene	10.03	0.50	10	0	100	60-140	0			
1,3-Butadiene	10.21	0.50	10	0	102	50.6-140	0			
1,3-Dichlorobenzene	10.32	0.50	10	0	103	60-140	0			
1,4-Dichlorobenzene	10.41	0.50	10	0	104	55.1-145	0			
1,4-Dioxane	9.76	1.0	10	0	97.6	60-140	0			
2-Butanone	10.45	0.50	10	0	104	60-140	0			
2-Hexanone	10.03	1.0	10	0	100	56.2-162	0			
2-Propanol	9.89	1.0	10	0	98.9	60-140	0			
4-Ethyltoluene	10.26	0.50	10	0	103	60-140	0			
4-Methyl-2-pentanone	10.29	1.0	10	0	103	60-140	0			
Acetone	9.82	1.0	10	0	98.2	60-140	0			
Benzene	9.72	0.50	10	0	97.2	60-140	0			
Benzyl chloride	10.5	0.50	10	0	105	31.9-174	0			
Bromodichloromethane	9.91	0.50	10	0	99.1	60-140	0			
Bromoform	9.82	0.50	10	0	98.2	60-140	0			
Bromomethane	10.9	0.50	10	0	109	60-140	0			
Carbon disulfide	9.95	0.50	10	0	99.5	60-140	0			
Carbon tetrachloride	9.76	0.50	10	0	97.6	60-140	0			
Chlorobenzene	9.61	0.50	10	0	96.1	60-140	0			
Chloroethane	10.64	0.50	10	0	106	60-140	0			
Chloroform	9.92	0.20	10	0	99.2	60-140	0			
Chloromethane	10.52	0.50	10	0	105	60-140	0			
cis-1,2-Dichloroethene	10.09	0.50	10	0	101	60-140	0			
cis-1,3-Dichloropropene	10.06	0.50	10	0	101	60-140	0			
Cumene	10.01	0.50	10	0	100	60-140	0			
Cyclohexane	9.66	0.50	10	0	96.6	60-140	0			
Dibromochloromethane	10.11	0.50	10	0	101	60-140	0			
Dichlorodifluoromethane	10.58	0.50	10	0	106	60-140	0			
Ethyl acetate	10.45	0.50	10	0	104	60-140	0			
Ethylbenzene	9.82	0.50	10	0	98.2	60-140	0			
Freon 113	9.82	0.50	10	0	98.2	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1904472
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R164147**	Instrument ID **VMS4**		Method: **ETO-15**				
Freon 114	10.31	0.50	10	0	103	60-140	0
Heptane	10	0.50	10	0	100	60-140	0
Hexachlorobutadiene	10.24	0.50	10	0	102	60-140	0
Hexane	10.01	0.50	10	0	100	60-140	0
m,p-Xylene	19.88	0.50	20	0	99.4	60-140	0
Methylene chloride	9.72	2.0	10	0	97.2	60-140	0
MTBE	9.98	0.50	10	0	99.8	60.8-151	0
Naphthalene	8.96	0.20	10	0	89.6	53.1-152	0
o-Xylene	9.86	0.50	10	0	98.6	60-140	0
Propene	10.8	0.50	10	0	108	34.4-139	0
Styrene	10.22	0.50	10	0	102	60-140	0
Tetrachloroethene	9.72	0.50	10	0	97.2	60-140	0
Tetrahydrofuran	9.74	0.50	10	0	97.4	60-140	0
Toluene	10.01	0.50	10	0	100	60-140	0
trans-1,2-Dichloroethene	9.46	0.50	10	0	94.6	60-140	0
trans-1,3-Dichloropropene	9.87	0.50	10	0	98.7	60-140	0
Trichloroethene	9.67	0.20	10	0	96.7	60-140	0
Trichlorofluoromethane	10.09	0.50	10	0	101	60-140	0
Vinyl acetate	10.66	0.50	10	0	107	48.4-145	0
Vinyl chloride	12.53	0.50	10	0	125	60-140	0
Surr: Bromofluorobenzene	10.19	0	*10*	0	*102*	*60-140*	0

The following samples were analyzed in this batch: 1904472-01A 1904472-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 18-Apr-19

Client: EarthCon
Project: TWP Roswell Station 9
WorkOrder: **1904472**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **05-Apr-19 12:12**

Work Order: **1904472** Received by: **SNH**

Checklist completed by Stephanie Harrington 07-Apr-19 Reviewed by: Shawn Smythe 08-Apr-19
eSignature Date eSignature Date

Matrices:
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

10-Jul-2019

Jordon French
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station 9 Work Order: **19061022**

Dear Jordon,

ALS Environmental received 2 samples on 18-Jun-2019 10:18 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 10-Jul-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: **19061022**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19061022-01	TWP West Baker Furnace	Air		6/14/2019	6/18/2019 10:18	☐
19061022-02	TWP East Baker Furnace	Air		6/14/2019	6/18/2019 10:18	☐

ALS Environmental

Date: 10-Jul-19

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: 19061022

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP West Baker Furnace **Lab ID:** 19061022-01
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1-Dichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,1-Dichloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dibromoethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dichloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,2-Dichloropropane	ND		250	ppbv	500	6/27/2019 09:00 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,3-Butadiene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
1,4-Dioxane	ND		500	ppbv	500	6/27/2019 09:00 PM
2-Butanone	ND		250	ppbv	500	6/27/2019 09:00 PM
2-Hexanone	ND		500	ppbv	500	6/27/2019 09:00 PM
2-Propanol	ND		500	ppbv	500	6/27/2019 09:00 PM
4-Ethyltoluene	ND		250	ppbv	500	6/27/2019 09:00 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	6/27/2019 09:00 PM
Acetone	ND		500	ppbv	500	6/27/2019 09:00 PM
Benzene	**1,200**		**250**	**ppbv**	500	6/27/2019 09:00 PM
Benzyl chloride	ND		250	ppbv	500	6/27/2019 09:00 PM
Bromodichloromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Bromoform	ND		250	ppbv	500	6/27/2019 09:00 PM
Bromomethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Carbon disulfide	ND		250	ppbv	500	6/27/2019 09:00 PM
Carbon tetrachloride	ND		250	ppbv	500	6/27/2019 09:00 PM
Chlorobenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
Chloroethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Chloroform	ND		100	ppbv	500	6/27/2019 09:00 PM
Chloromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 09:00 PM
Cumene	ND		250	ppbv	500	6/27/2019 09:00 PM
Cyclohexane	**43,000**		**2,500**	**ppbv**	5000	6/27/2019 08:16 PM
Dibromochloromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Dichlorodifluoromethane	ND		250	ppbv	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP West Baker Furnace **Lab ID:** 19061022-01
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	6/27/2019 09:00 PM
Ethylbenzene	ND		250	ppbv	500	6/27/2019 09:00 PM
Freon 113	ND		250	ppbv	500	6/27/2019 09:00 PM
Freon 114	ND		250	ppbv	500	6/27/2019 09:00 PM
Heptane	**36,000**		**2,500**	**ppbv**	5000	6/27/2019 08:16 PM
Hexachlorobutadiene	ND		250	ppbv	500	6/27/2019 09:00 PM
Hexane	**74,000**		**2,500**	**ppbv**	5000	6/27/2019 08:16 PM
m,p-Xylene	**820**		**250**	**ppbv**	500	6/27/2019 09:00 PM
Methylene chloride	ND		1,000	ppbv	500	6/27/2019 09:00 PM
MTBE	ND		250	ppbv	500	6/27/2019 09:00 PM
Naphthalene	ND		100	ppbv	500	6/27/2019 09:00 PM
o-Xylene	ND		250	ppbv	500	6/27/2019 09:00 PM
Propene	ND		250	ppbv	500	6/27/2019 09:00 PM
Styrene	ND		250	ppbv	500	6/27/2019 09:00 PM
Tetrachloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
Tetrahydrofuran	ND		250	ppbv	500	6/27/2019 09:00 PM
Toluene	**1,400**		**250**	**ppbv**	500	6/27/2019 09:00 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 09:00 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 09:00 PM
Trichloroethene	ND		100	ppbv	500	6/27/2019 09:00 PM
Trichlorofluoromethane	ND		250	ppbv	500	6/27/2019 09:00 PM
Vinyl acetate	ND		250	ppbv	500	6/27/2019 09:00 PM
Vinyl chloride	ND		250	ppbv	500	6/27/2019 09:00 PM
Surr: Bromofluorobenzene	*98.9*		*60-140*	*%REC*	500	6/27/2019 09:00 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 09:00 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	6/27/2019 09:00 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 09:00 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 09:00 PM
1,1-Dichloroethene	ND		991	µg/m3	500	6/27/2019 09:00 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	6/27/2019 09:00 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	6/27/2019 09:00 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 09:00 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 09:00 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	6/27/2019 09:00 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
1,3-Butadiene	ND		553	µg/m3	500	6/27/2019 09:00 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 09:00 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP West Baker Furnace **Lab ID:** 19061022-01
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	6/27/2019 09:00 PM
2-Butanone	ND		737	µg/m3	500	6/27/2019 09:00 PM
2-Hexanone	ND		2,050	µg/m3	500	6/27/2019 09:00 PM
2-Propanol	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	6/27/2019 09:00 PM
Acetone	ND		1,190	µg/m3	500	6/27/2019 09:00 PM
Benzene	**3,850**		**799**	**µg/m3**	500	6/27/2019 09:00 PM
Benzyl chloride	ND		1,290	µg/m3	500	6/27/2019 09:00 PM
Bromodichloromethane	ND		1,680	µg/m3	500	6/27/2019 09:00 PM
Bromoform	ND		2,580	µg/m3	500	6/27/2019 09:00 PM
Bromomethane	ND		971	µg/m3	500	6/27/2019 09:00 PM
Carbon disulfide	ND		778	µg/m3	500	6/27/2019 09:00 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	6/27/2019 09:00 PM
Chlorobenzene	ND		1,150	µg/m3	500	6/27/2019 09:00 PM
Chloroethane	ND		660	µg/m3	500	6/27/2019 09:00 PM
Chloroform	ND		488	µg/m3	500	6/27/2019 09:00 PM
Chloromethane	ND		516	µg/m3	500	6/27/2019 09:00 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 09:00 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 09:00 PM
Cumene	ND		1,230	µg/m3	500	6/27/2019 09:00 PM
Cyclohexane	**147,000**		**8,610**	**µg/m3**	5000	6/27/2019 08:16 PM
Dibromochloromethane	ND		2,130	µg/m3	500	6/27/2019 09:00 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	6/27/2019 09:00 PM
Ethyl acetate	ND		901	µg/m3	500	6/27/2019 09:00 PM
Ethylbenzene	ND		1,090	µg/m3	500	6/27/2019 09:00 PM
Freon 113	ND		1,920	µg/m3	500	6/27/2019 09:00 PM
Freon 114	ND		1,750	µg/m3	500	6/27/2019 09:00 PM
Heptane	**147,000**		**10,200**	**µg/m3**	5000	6/27/2019 08:16 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	6/27/2019 09:00 PM
Hexane	**262,000**		**8,810**	**µg/m3**	5000	6/27/2019 08:16 PM
m,p-Xylene	**3,580**		**1,090**	**µg/m3**	500	6/27/2019 09:00 PM
Methylene chloride	ND		3,500	µg/m3	500	6/27/2019 09:00 PM
MTBE	ND		901	µg/m3	500	6/27/2019 09:00 PM
Naphthalene	ND		524	µg/m3	500	6/27/2019 09:00 PM
o-Xylene	ND		1,090	µg/m3	500	6/27/2019 09:00 PM
Propene	ND		430	µg/m3	500	6/27/2019 09:00 PM
Styrene	ND		1,060	µg/m3	500	6/27/2019 09:00 PM
Tetrachloroethene	ND		1,700	µg/m3	500	6/27/2019 09:00 PM
Tetrahydrofuran	ND		737	µg/m3	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP West Baker Furnace **Lab ID:** 19061022-01
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**5,390**		**942**	**µg/m3**	500	6/27/2019 09:00 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 09:00 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 09:00 PM
Trichloroethene	ND		537	µg/m3	500	6/27/2019 09:00 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	6/27/2019 09:00 PM
Vinyl acetate	ND		880	µg/m3	500	6/27/2019 09:00 PM
Vinyl chloride	ND		639	µg/m3	500	6/27/2019 09:00 PM
Surr: Bromofluorobenzene	*98.9*		*60-140*	*%REC*	500	6/27/2019 09:00 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1-Dichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,1-Dichloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dibromoethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dichloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,2-Dichloropropane	ND		250	ppbv	500	6/27/2019 10:30 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,3-Butadiene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
1,4-Dioxane	ND		500	ppbv	500	6/27/2019 10:30 PM
2-Butanone	ND		250	ppbv	500	6/27/2019 10:30 PM
2-Hexanone	ND		500	ppbv	500	6/27/2019 10:30 PM
2-Propanol	ND		500	ppbv	500	6/27/2019 10:30 PM
4-Ethyltoluene	ND		250	ppbv	500	6/27/2019 10:30 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	6/27/2019 10:30 PM
Acetone	ND		500	ppbv	500	6/27/2019 10:30 PM
Benzene	ND		250	ppbv	500	6/27/2019 10:30 PM
Benzyl chloride	ND		250	ppbv	500	6/27/2019 10:30 PM
Bromodichloromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Bromoform	ND		250	ppbv	500	6/27/2019 10:30 PM
Bromomethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Carbon disulfide	ND		250	ppbv	500	6/27/2019 10:30 PM
Carbon tetrachloride	ND		250	ppbv	500	6/27/2019 10:30 PM
Chlorobenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
Chloroethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Chloroform	ND		100	ppbv	500	6/27/2019 10:30 PM
Chloromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 10:30 PM
Cumene	ND		250	ppbv	500	6/27/2019 10:30 PM
Cyclohexane	**8,100**		**250**	**ppbv**	500	6/27/2019 10:30 PM
Dibromochloromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Dichlorodifluoromethane	ND		250	ppbv	500	6/27/2019 10:30 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	6/27/2019 10:30 PM
Ethylbenzene	ND		250	ppbv	500	6/27/2019 10:30 PM
Freon 113	ND		250	ppbv	500	6/27/2019 10:30 PM
Freon 114	ND		250	ppbv	500	6/27/2019 10:30 PM
Heptane	**5,400**		**250**	**ppbv**	500	6/27/2019 10:30 PM
Hexachlorobutadiene	ND		250	ppbv	500	6/27/2019 10:30 PM
Hexane	**16,000**		**2,500**	**ppbv**	5000	6/27/2019 09:46 PM
m,p-Xylene	ND		250	ppbv	500	6/27/2019 10:30 PM
Methylene chloride	ND		1,000	ppbv	500	6/27/2019 10:30 PM
MTBE	ND		250	ppbv	500	6/27/2019 10:30 PM
Naphthalene	ND		100	ppbv	500	6/27/2019 10:30 PM
o-Xylene	ND		250	ppbv	500	6/27/2019 10:30 PM
Propene	ND		250	ppbv	500	6/27/2019 10:30 PM
Styrene	ND		250	ppbv	500	6/27/2019 10:30 PM
Tetrachloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
Tetrahydrofuran	ND		250	ppbv	500	6/27/2019 10:30 PM
Toluene	ND		250	ppbv	500	6/27/2019 10:30 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	6/27/2019 10:30 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	6/27/2019 10:30 PM
Trichloroethene	ND		100	ppbv	500	6/27/2019 10:30 PM
Trichlorofluoromethane	ND		250	ppbv	500	6/27/2019 10:30 PM
Vinyl acetate	ND		250	ppbv	500	6/27/2019 10:30 PM
Vinyl chloride	ND		250	ppbv	500	6/27/2019 10:30 PM
Surr: Bromofluorobenzene	*98.4*		*60-140*	*%REC*	500	6/27/2019 10:30 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 10:30 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	6/27/2019 10:30 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	6/27/2019 10:30 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 10:30 PM
1,1-Dichloroethene	ND		991	µg/m3	500	6/27/2019 10:30 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	6/27/2019 10:30 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	6/27/2019 10:30 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 10:30 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	6/27/2019 10:30 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	6/27/2019 10:30 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
1,3-Butadiene	ND		553	µg/m3	500	6/27/2019 10:30 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 10:30 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	6/27/2019 10:30 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	6/27/2019 10:30 PM
2-Butanone	ND		737	µg/m3	500	6/27/2019 10:30 PM
2-Hexanone	ND		2,050	µg/m3	500	6/27/2019 10:30 PM
2-Propanol	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	6/27/2019 10:30 PM
Acetone	ND		1,190	µg/m3	500	6/27/2019 10:30 PM
Benzene	ND		799	µg/m3	500	6/27/2019 10:30 PM
Benzyl chloride	ND		1,290	µg/m3	500	6/27/2019 10:30 PM
Bromodichloromethane	ND		1,680	µg/m3	500	6/27/2019 10:30 PM
Bromoform	ND		2,580	µg/m3	500	6/27/2019 10:30 PM
Bromomethane	ND		971	µg/m3	500	6/27/2019 10:30 PM
Carbon disulfide	ND		778	µg/m3	500	6/27/2019 10:30 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	6/27/2019 10:30 PM
Chlorobenzene	ND		1,150	µg/m3	500	6/27/2019 10:30 PM
Chloroethane	ND		660	µg/m3	500	6/27/2019 10:30 PM
Chloroform	ND		488	µg/m3	500	6/27/2019 10:30 PM
Chloromethane	ND		516	µg/m3	500	6/27/2019 10:30 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 10:30 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 10:30 PM
Cumene	ND		1,230	µg/m3	500	6/27/2019 10:30 PM
Cyclohexane	**27,800**		**861**	**µg/m3**	500	6/27/2019 10:30 PM
Dibromochloromethane	ND		2,130	µg/m3	500	6/27/2019 10:30 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	6/27/2019 10:30 PM
Ethyl acetate	ND		901	µg/m3	500	6/27/2019 10:30 PM
Ethylbenzene	ND		1,090	µg/m3	500	6/27/2019 10:30 PM
Freon 113	ND		1,920	µg/m3	500	6/27/2019 10:30 PM
Freon 114	ND		1,750	µg/m3	500	6/27/2019 10:30 PM
Heptane	**22,000**		**1,020**	**µg/m3**	500	6/27/2019 10:30 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	6/27/2019 10:30 PM
Hexane	**54,800**		**8,810**	**µg/m3**	5000	6/27/2019 09:46 PM
m,p-Xylene	ND		1,090	µg/m3	500	6/27/2019 10:30 PM
Methylene chloride	ND		3,500	µg/m3	500	6/27/2019 10:30 PM
MTBE	ND		901	µg/m3	500	6/27/2019 10:30 PM
Naphthalene	ND		524	µg/m3	500	6/27/2019 10:30 PM
o-Xylene	ND		1,090	µg/m3	500	6/27/2019 10:30 PM
Propene	ND		430	µg/m3	500	6/27/2019 10:30 PM
Styrene	ND		1,060	µg/m3	500	6/27/2019 10:30 PM
Tetrachloroethene	ND		1,700	µg/m3	500	6/27/2019 10:30 PM
Tetrahydrofuran	ND		737	µg/m3	500	6/27/2019 10:30 PM

Note:

ALS Environmental

Date: *10-Jul-19*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 19061022
Sample ID: TWP East Baker Furnace **Lab ID:** 19061022-02
Collection Date: 6/14/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	6/27/2019 10:30 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	6/27/2019 10:30 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/27/2019 10:30 PM
Trichloroethene	ND		537	µg/m3	500	6/27/2019 10:30 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	6/27/2019 10:30 PM
Vinyl acetate	ND		880	µg/m3	500	6/27/2019 10:30 PM
Vinyl chloride	ND		639	µg/m3	500	6/27/2019 10:30 PM
Surr: Bromofluorobenzene	*98.4*		*60-140*	*%REC*	500	6/27/2019 10:30 PM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC **

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 19061022-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	285817	PPBV
	TVOC**	1007314	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 19061022-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	74327	PPBV
	TVOC**	261954	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 10-Jul-19

Client: EarthCon

Work Order: 19061022

Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R167195** Units: **ppbv** Analysis Date: **6/27/2019 04:25 PM**

Client ID: Run ID: **VMS4_190627A** SeqNo: **2037070** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 19061022
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195**	Instrument ID **VMS4**		Method: **ETO-15**					
Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	9.73	0	*10*	0	*97.3*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 19061022
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **LCS-R167195** Units: **ppbv** Analysis Date: **6/27/2019 03:41 PM**
Client ID: Run ID: **VMS4_190627A** SeqNo: **2037069** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	11.05	0.50	10	0	110	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.89	0.50	10	0	109	60-140	0			
1,1,2-Trichloroethane	10.98	0.50	10	0	110	60-140	0			
1,1-Dichloroethane	11.32	0.50	10	0	113	60-140	0			
1,1-Dichloroethene	11.49	0.50	10	0	115	60-140	0			
1,2,4-Trichlorobenzene	7.95	0.50	10	0	79.5	49.3-150	0			
1,2,4-Trimethylbenzene	10.66	0.50	10	0	107	50.1-162	0			
1,2-Dibromoethane	10.88	0.50	10	0	109	60-140	0			
1,2-Dichlorobenzene	9.98	0.50	10	0	99.8	41.9-141	0			
1,2-Dichloroethane	11.73	0.50	10	0	117	60-140	0			
1,2-Dichloropropane	11.19	0.50	10	0	112	60-140	0			
1,3,5-Trimethylbenzene	10.62	0.50	10	0	106	60-140	0			
1,3-Butadiene	12.06	0.50	10	0	121	50.6-140	0			
1,3-Dichlorobenzene	10.29	0.50	10	0	103	60-140	0			
1,4-Dichlorobenzene	9.91	0.50	10	0	99.1	55.1-145	0			
1,4-Dioxane	9.65	1.0	10	0	96.5	60-140	0			
2-Butanone	11.75	0.50	10	0	118	60-140	0			
2-Hexanone	10.86	1.0	10	0	109	56.2-162	0			
2-Propanol	11.86	1.0	10	0	119	60-140	0			
4-Ethyltoluene	10.75	0.50	10	0	108	60-140	0			
4-Methyl-2-pentanone	11.78	1.0	10	0	118	60-140	0			
Acetone	10.71	1.0	10	0	107	60-140	0			
Benzene	11.14	0.50	10	0	111	60-140	0			
Benzyl chloride	10.22	0.50	10	0	102	31.9-174	0			
Bromodichloromethane	11.16	0.50	10	0	112	60-140	0			
Bromoform	10.57	0.50	10	0	106	60-140	0			
Bromomethane	11.56	0.50	10	0	116	60-140	0			
Carbon disulfide	10.57	0.50	10	0	106	60-140	0			
Carbon tetrachloride	10.96	0.50	10	0	110	60-140	0			
Chlorobenzene	10.45	0.50	10	0	104	60-140	0			
Chloroethane	13.53	0.50	10	0	135	60-140	0			
Chloroform	11.21	0.20	10	0	112	60-140	0			
Chloromethane	11.9	0.50	10	0	119	60-140	0			
cis-1,2-Dichloroethene	11.73	0.50	10	0	117	60-140	0			
cis-1,3-Dichloropropene	11.35	0.50	10	0	114	60-140	0			
Cumene	10.78	0.50	10	0	108	60-140	0			
Cyclohexane	11.11	0.50	10	0	111	60-140	0			
Dibromochloromethane	10.92	0.50	10	0	109	60-140	0			
Dichlorodifluoromethane	11.26	0.50	10	0	113	60-140	0			
Ethyl acetate	11.77	0.50	10	0	118	60-140	0			
Ethylbenzene	10.82	0.50	10	0	108	60-140	0			
Freon 113	10.88	0.50	10	0	109	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 19061022
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R167195**	Instrument ID **VMS4**		Method: **ETO-15**				
Freon 114	11.32	0.50	10	0	113	60-140	0
Heptane	12.4	0.50	10	0	124	60-140	0
Hexachlorobutadiene	9.83	0.50	10	0	98.3	60-140	0
Hexane	11.49	0.50	10	0	115	60-140	0
m,p-Xylene	21.63	0.50	20	0	108	60-140	0
Methylene chloride	11.11	2.0	10	0	111	60-140	0
MTBE	11.46	0.50	10	0	115	60.8-151	0
Naphthalene	7.75	0.20	10	0	77.5	53.1-152	0
o-Xylene	10.82	0.50	10	0	108	60-140	0
Propene	9.82	0.50	10	0	98.2	34.4-139	0
Styrene	10.96	0.50	10	0	110	60-140	0
Tetrachloroethene	10.46	0.50	10	0	105	60-140	0
Tetrahydrofuran	11.98	0.50	10	0	120	60-140	0
Toluene	11.02	0.50	10	0	110	60-140	0
trans-1,2-Dichloroethene	10.69	0.50	10	0	107	60-140	0
trans-1,3-Dichloropropene	11.37	0.50	10	0	114	60-140	0
Trichloroethene	10.72	0.20	10	0	107	60-140	0
Trichlorofluoromethane	10.95	0.50	10	0	110	60-140	0
Vinyl acetate	12.46	0.50	10	0	125	48.4-145	0
Vinyl chloride	11.82	0.50	10	0	118	60-140	0
Surr: Bromofluorobenzene	10.2	0	*10*	0	*102*	*60-140*	0

The following samples were analyzed in this batch:

19061022-01A	19061022-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 10-Jul-19

Client: EarthCon
Project: TWP Roswell Station 9
WorkOrder: **19061022**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **18-Jun-19 10:18**

Work Order: **19061022** Received by: **SNH**

Checklist completed by Stephanie Harrington 18-Jun-19 Reviewed by: Shawn Smythe 19-Jun-19
eSignature Date eSignature Date

Matrices:
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

09-Oct-2019

Jordon French
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station #9 Work Order: **1909928**

Dear Jordon,

ALS Environmental received 2 samples on 19-Sep-2019 12:58 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 09-Oct-19

Client: EarthCon
Project: TWP Roswell Station #9
Work Order: **1909928**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1909928-01	TWP West Baker Furnace	Air		9/16/2019	9/19/2019 12:58	☐
1909928-02	TWP East Baker Furnace	Air		9/16/2019	9/19/2019 12:58	☐

ALS Environmental

Date: 09-Oct-19

Client: EarthCon
Project: TWP Roswell Station #9
Work Order: 1909928

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1-Dichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,1-Dichloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dibromoethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dichloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,2-Dichloropropane	ND		250	ppbv	500	10/3/2019 03:47 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,3-Butadiene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
1,4-Dioxane	ND		500	ppbv	500	10/3/2019 03:47 PM
2-Butanone	ND		250	ppbv	500	10/3/2019 03:47 PM
2-Hexanone	ND		500	ppbv	500	10/3/2019 03:47 PM
2-Propanol	ND		500	ppbv	500	10/3/2019 03:47 PM
4-Ethyltoluene	ND		250	ppbv	500	10/3/2019 03:47 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	10/3/2019 03:47 PM
Acetone	ND		500	ppbv	500	10/3/2019 03:47 PM
Benzene	**1,400**		**250**	**ppbv**	500	10/3/2019 03:47 PM
Benzyl chloride	ND		250	ppbv	500	10/3/2019 03:47 PM
Bromodichloromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Bromoform	ND		250	ppbv	500	10/3/2019 03:47 PM
Bromomethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Carbon disulfide	ND		250	ppbv	500	10/3/2019 03:47 PM
Carbon tetrachloride	ND		250	ppbv	500	10/3/2019 03:47 PM
Chlorobenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
Chloroethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Chloroform	ND		100	ppbv	500	10/3/2019 03:47 PM
Chloromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 03:47 PM
Cumene	ND		250	ppbv	500	10/3/2019 03:47 PM
Cyclohexane	**49,000**		**2,500**	**ppbv**	5000	10/3/2019 05:18 PM
Dibromochloromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Dichlorodifluoromethane	ND		250	ppbv	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	10/3/2019 03:47 PM
Ethylbenzene	ND		250	ppbv	500	10/3/2019 03:47 PM
Freon 113	ND		250	ppbv	500	10/3/2019 03:47 PM
Freon 114	ND		250	ppbv	500	10/3/2019 03:47 PM
Heptane	**44,000**		**2,500**	**ppbv**	5000	10/3/2019 05:18 PM
Hexachlorobutadiene	ND		250	ppbv	500	10/3/2019 03:47 PM
Hexane	**68,000**		**2,500**	**ppbv**	5000	10/3/2019 05:18 PM
m,p-Xylene	**1,200**		**250**	**ppbv**	500	10/3/2019 03:47 PM
Methylene chloride	ND		1,000	ppbv	500	10/3/2019 03:47 PM
MTBE	ND		250	ppbv	500	10/3/2019 03:47 PM
Naphthalene	ND		100	ppbv	500	10/3/2019 03:47 PM
o-Xylene	ND		250	ppbv	500	10/3/2019 03:47 PM
Propene	ND		250	ppbv	500	10/3/2019 03:47 PM
Styrene	ND		250	ppbv	500	10/3/2019 03:47 PM
Tetrachloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
Tetrahydrofuran	ND		250	ppbv	500	10/3/2019 03:47 PM
Toluene	**2,000**		**250**	**ppbv**	500	10/3/2019 03:47 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 03:47 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 03:47 PM
Trichloroethene	ND		100	ppbv	500	10/3/2019 03:47 PM
Trichlorofluoromethane	ND		250	ppbv	500	10/3/2019 03:47 PM
Vinyl acetate	ND		250	ppbv	500	10/3/2019 03:47 PM
Vinyl chloride	ND		250	ppbv	500	10/3/2019 03:47 PM
Surr: Bromofluorobenzene	*93.6*		*60-140*	*%REC*	500	10/3/2019 03:47 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 03:47 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	10/3/2019 03:47 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 03:47 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 03:47 PM
1,1-Dichloroethene	ND		991	µg/m3	500	10/3/2019 03:47 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	10/3/2019 03:47 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	10/3/2019 03:47 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 03:47 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 03:47 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	10/3/2019 03:47 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
1,3-Butadiene	ND		553	µg/m3	500	10/3/2019 03:47 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 03:47 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	10/3/2019 03:47 PM
2-Butanone	ND		737	µg/m3	500	10/3/2019 03:47 PM
2-Hexanone	ND		2,050	µg/m3	500	10/3/2019 03:47 PM
2-Propanol	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	10/3/2019 03:47 PM
Acetone	ND		1,190	µg/m3	500	10/3/2019 03:47 PM
Benzene	**4,580**		**799**	**µg/m3**	500	10/3/2019 03:47 PM
Benzyl chloride	ND		1,290	µg/m3	500	10/3/2019 03:47 PM
Bromodichloromethane	ND		1,680	µg/m3	500	10/3/2019 03:47 PM
Bromoform	ND		2,580	µg/m3	500	10/3/2019 03:47 PM
Bromomethane	ND		971	µg/m3	500	10/3/2019 03:47 PM
Carbon disulfide	ND		778	µg/m3	500	10/3/2019 03:47 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	10/3/2019 03:47 PM
Chlorobenzene	ND		1,150	µg/m3	500	10/3/2019 03:47 PM
Chloroethane	ND		660	µg/m3	500	10/3/2019 03:47 PM
Chloroform	ND		488	µg/m3	500	10/3/2019 03:47 PM
Chloromethane	ND		516	µg/m3	500	10/3/2019 03:47 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 03:47 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 03:47 PM
Cumene	ND		1,230	µg/m3	500	10/3/2019 03:47 PM
Cyclohexane	**169,000**		**8,610**	**µg/m3**	5000	10/3/2019 05:18 PM
Dibromochloromethane	ND		2,130	µg/m3	500	10/3/2019 03:47 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	10/3/2019 03:47 PM
Ethyl acetate	ND		901	µg/m3	500	10/3/2019 03:47 PM
Ethylbenzene	ND		1,090	µg/m3	500	10/3/2019 03:47 PM
Freon 113	ND		1,920	µg/m3	500	10/3/2019 03:47 PM
Freon 114	ND		1,750	µg/m3	500	10/3/2019 03:47 PM
Heptane	**180,000**		**10,200**	**µg/m3**	5000	10/3/2019 05:18 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	10/3/2019 03:47 PM
Hexane	**239,000**		**8,810**	**µg/m3**	5000	10/3/2019 05:18 PM
m,p-Xylene	**5,230**		**1,090**	**µg/m3**	500	10/3/2019 03:47 PM
Methylene chloride	ND		3,500	µg/m3	500	10/3/2019 03:47 PM
MTBE	ND		901	µg/m3	500	10/3/2019 03:47 PM
Naphthalene	ND		524	µg/m3	500	10/3/2019 03:47 PM
o-Xylene	ND		1,090	µg/m3	500	10/3/2019 03:47 PM
Propene	ND		430	µg/m3	500	10/3/2019 03:47 PM
Styrene	ND		1,060	µg/m3	500	10/3/2019 03:47 PM
Tetrachloroethene	ND		1,700	µg/m3	500	10/3/2019 03:47 PM
Tetrahydrofuran	ND		737	µg/m3	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP West Baker Furnace **Lab ID:** 1909928-01
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**7,460**		**942**	**µg/m3**	500	10/3/2019 03:47 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 03:47 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 03:47 PM
Trichloroethene	ND		537	µg/m3	500	10/3/2019 03:47 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	10/3/2019 03:47 PM
Vinyl acetate	ND		880	µg/m3	500	10/3/2019 03:47 PM
Vinyl chloride	ND		639	µg/m3	500	10/3/2019 03:47 PM
Surr: Bromofluorobenzene	*93.6*		*60-140*	*%REC*	500	10/3/2019 03:47 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1-Dichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,1-Dichloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dibromoethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dichloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,2-Dichloropropane	ND		250	ppbv	500	10/3/2019 04:32 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,3-Butadiene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
1,4-Dioxane	ND		500	ppbv	500	10/3/2019 04:32 PM
2-Butanone	ND		250	ppbv	500	10/3/2019 04:32 PM
2-Hexanone	ND		500	ppbv	500	10/3/2019 04:32 PM
2-Propanol	ND		500	ppbv	500	10/3/2019 04:32 PM
4-Ethyltoluene	ND		250	ppbv	500	10/3/2019 04:32 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	10/3/2019 04:32 PM
Acetone	ND		500	ppbv	500	10/3/2019 04:32 PM
Benzene	**580**		**250**	**ppbv**	500	10/3/2019 04:32 PM
Benzyl chloride	ND		250	ppbv	500	10/3/2019 04:32 PM
Bromodichloromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Bromoform	ND		250	ppbv	500	10/3/2019 04:32 PM
Bromomethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Carbon disulfide	ND		250	ppbv	500	10/3/2019 04:32 PM
Carbon tetrachloride	ND		250	ppbv	500	10/3/2019 04:32 PM
Chlorobenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
Chloroethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Chloroform	ND		100	ppbv	500	10/3/2019 04:32 PM
Chloromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 04:32 PM
Cumene	ND		250	ppbv	500	10/3/2019 04:32 PM
Cyclohexane	**18,000**		**2,500**	**ppbv**	5000	10/3/2019 06:03 PM
Dibromochloromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Dichlorodifluoromethane	ND		250	ppbv	500	10/3/2019 04:32 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	10/3/2019 04:32 PM
Ethylbenzene	ND		250	ppbv	500	10/3/2019 04:32 PM
Freon 113	ND		250	ppbv	500	10/3/2019 04:32 PM
Freon 114	ND		250	ppbv	500	10/3/2019 04:32 PM
Heptane	**13,000**		**2,500**	**ppbv**	5000	10/3/2019 06:03 PM
Hexachlorobutadiene	ND		250	ppbv	500	10/3/2019 04:32 PM
Hexane	**30,000**		**2,500**	**ppbv**	5000	10/3/2019 06:03 PM
m,p-Xylene	ND		250	ppbv	500	10/3/2019 04:32 PM
Methylene chloride	ND		1,000	ppbv	500	10/3/2019 04:32 PM
MTBE	ND		250	ppbv	500	10/3/2019 04:32 PM
Naphthalene	ND		100	ppbv	500	10/3/2019 04:32 PM
o-Xylene	ND		250	ppbv	500	10/3/2019 04:32 PM
Propene	ND		250	ppbv	500	10/3/2019 04:32 PM
Styrene	ND		250	ppbv	500	10/3/2019 04:32 PM
Tetrachloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
Tetrahydrofuran	ND		250	ppbv	500	10/3/2019 04:32 PM
Toluene	**590**		**250**	**ppbv**	500	10/3/2019 04:32 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	10/3/2019 04:32 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	10/3/2019 04:32 PM
Trichloroethene	ND		100	ppbv	500	10/3/2019 04:32 PM
Trichlorofluoromethane	ND		250	ppbv	500	10/3/2019 04:32 PM
Vinyl acetate	ND		250	ppbv	500	10/3/2019 04:32 PM
Vinyl chloride	ND		250	ppbv	500	10/3/2019 04:32 PM
Surr: Bromofluorobenzene	*93.7*		*60-140*	*%REC*	500	10/3/2019 04:32 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 04:32 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	10/3/2019 04:32 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	10/3/2019 04:32 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 04:32 PM
1,1-Dichloroethene	ND		991	µg/m3	500	10/3/2019 04:32 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	10/3/2019 04:32 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	10/3/2019 04:32 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 04:32 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	10/3/2019 04:32 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	10/3/2019 04:32 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
1,3-Butadiene	ND		553	µg/m3	500	10/3/2019 04:32 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 04:32 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	10/3/2019 04:32 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	10/3/2019 04:32 PM
2-Butanone	ND		737	µg/m3	500	10/3/2019 04:32 PM
2-Hexanone	ND		2,050	µg/m3	500	10/3/2019 04:32 PM
2-Propanol	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	10/3/2019 04:32 PM
Acetone	ND		1,190	µg/m3	500	10/3/2019 04:32 PM
Benzene	**1,850**		**799**	**µg/m3**	500	10/3/2019 04:32 PM
Benzyl chloride	ND		1,290	µg/m3	500	10/3/2019 04:32 PM
Bromodichloromethane	ND		1,680	µg/m3	500	10/3/2019 04:32 PM
Bromoform	ND		2,580	µg/m3	500	10/3/2019 04:32 PM
Bromomethane	ND		971	µg/m3	500	10/3/2019 04:32 PM
Carbon disulfide	ND		778	µg/m3	500	10/3/2019 04:32 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	10/3/2019 04:32 PM
Chlorobenzene	ND		1,150	µg/m3	500	10/3/2019 04:32 PM
Chloroethane	ND		660	µg/m3	500	10/3/2019 04:32 PM
Chloroform	ND		488	µg/m3	500	10/3/2019 04:32 PM
Chloromethane	ND		516	µg/m3	500	10/3/2019 04:32 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 04:32 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 04:32 PM
Cumene	ND		1,230	µg/m3	500	10/3/2019 04:32 PM
Cyclohexane	**60,400**		**8,610**	**µg/m3**	5000	10/3/2019 06:03 PM
Dibromochloromethane	ND		2,130	µg/m3	500	10/3/2019 04:32 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	10/3/2019 04:32 PM
Ethyl acetate	ND		901	µg/m3	500	10/3/2019 04:32 PM
Ethylbenzene	ND		1,090	µg/m3	500	10/3/2019 04:32 PM
Freon 113	ND		1,920	µg/m3	500	10/3/2019 04:32 PM
Freon 114	ND		1,750	µg/m3	500	10/3/2019 04:32 PM
Heptane	**54,500**		**10,200**	**µg/m3**	5000	10/3/2019 06:03 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	10/3/2019 04:32 PM
Hexane	**106,000**		**8,810**	**µg/m3**	5000	10/3/2019 06:03 PM
m,p-Xylene	ND		1,090	µg/m3	500	10/3/2019 04:32 PM
Methylene chloride	ND		3,500	µg/m3	500	10/3/2019 04:32 PM
MTBE	ND		901	µg/m3	500	10/3/2019 04:32 PM
Naphthalene	ND		524	µg/m3	500	10/3/2019 04:32 PM
o-Xylene	ND		1,090	µg/m3	500	10/3/2019 04:32 PM
Propene	ND		430	µg/m3	500	10/3/2019 04:32 PM
Styrene	ND		1,060	µg/m3	500	10/3/2019 04:32 PM
Tetrachloroethene	ND		1,700	µg/m3	500	10/3/2019 04:32 PM
Tetrahydrofuran	ND		737	µg/m3	500	10/3/2019 04:32 PM

Note:

ALS Environmental

Date: *09-Oct-19*

Client: EarthCon
Project: TWP Roswell Station #9 **Work Order:** 1909928
Sample ID: TWP East Baker Furnace **Lab ID:** 1909928-02
Collection Date: 9/16/2019 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**2,220**		**942**	**µg/m3**	500	10/3/2019 04:32 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	10/3/2019 04:32 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	10/3/2019 04:32 PM
Trichloroethene	ND		537	µg/m3	500	10/3/2019 04:32 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	10/3/2019 04:32 PM
Vinyl acetate	ND		880	µg/m3	500	10/3/2019 04:32 PM
Vinyl chloride	ND		639	µg/m3	500	10/3/2019 04:32 PM
Surr: Bromofluorobenzene	*93.7*		*60-140*	*%REC*	500	10/3/2019 04:32 PM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC **

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 190928-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	313026	PPBV
	TVOC**	1103209	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 1909928-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	135949	PPBV
	TVOC**	479132	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 09-Oct-19

Client: EarthCon

Work Order: 1909928

Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R170765** Units: **ppbv** Analysis Date: **10/3/2019 11:16 AM**

Client ID: Run ID: **VMS4_191003A** SeqNo: **2111320** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1909928
Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	8.99	0	*10*	0	*89.9*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1909928
Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **LCS-R170765** Units: **ppbv** Analysis Date: **10/3/2019 10:32 AM**
Client ID: Run ID: **VMS4_191003A** SeqNo: **2111319** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.74	0.50	10	0	97.4	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.1	0.50	10	0	101	60-140	0			
1,1,2-Trichloroethane	9.88	0.50	10	0	98.8	60-140	0			
1,1-Dichloroethane	9.62	0.50	10	0	96.2	60-140	0			
1,1-Dichloroethene	9.67	0.50	10	0	96.7	60-140	0			
1,2,4-Trichlorobenzene	10.41	0.50	10	0	104	49.3-150	0			
1,2,4-Trimethylbenzene	10.71	0.50	10	0	107	50.1-162	0			
1,2-Dibromoethane	10.13	0.50	10	0	101	60-140	0			
1,2-Dichlorobenzene	10.76	0.50	10	0	108	41.9-141	0			
1,2-Dichloroethane	9.57	0.50	10	0	95.7	60-140	0			
1,2-Dichloropropane	9.61	0.50	10	0	96.1	60-140	0			
1,3,5-Trimethylbenzene	10.41	0.50	10	0	104	60-140	0			
1,3-Butadiene	9.35	0.50	10	0	93.5	50.6-140	0			
1,3-Dichlorobenzene	10.73	0.50	10	0	107	60-140	0			
1,4-Dichlorobenzene	10.68	0.50	10	0	107	55.1-145	0			
1,4-Dioxane	10.19	1.0	10	0	102	60-140	0			
2-Butanone	10.01	0.50	10	0	100	60-140	0			
2-Hexanone	10.74	1.0	10	0	107	56.2-162	0			
2-Propanol	10.12	1.0	10	0	101	60-140	0			
4-Ethyltoluene	10.78	0.50	10	0	108	60-140	0			
4-Methyl-2-pentanone	10.36	1.0	10	0	104	60-140	0			
Acetone	9.91	1.0	10	0	99.1	60-140	0			
Benzene	9.49	0.50	10	0	94.9	60-140	0			
Benzyl chloride	10.57	0.50	10	0	106	31.9-174	0			
Bromodichloromethane	9.83	0.50	10	0	98.3	60-140	0			
Bromoform	10.32	0.50	10	0	103	60-140	0			
Bromomethane	9.67	0.50	10	0	96.7	60-140	0			
Carbon disulfide	9.6	0.50	10	0	96	60-140	0			
Carbon tetrachloride	9.75	0.50	10	0	97.5	60-140	0			
Chlorobenzene	9.56	0.50	10	0	95.6	60-140	0			
Chloroethane	10.61	0.50	10	0	106	60-140	0			
Chloroform	9.58	0.20	10	0	95.8	60-140	0			
Chloromethane	9.43	0.50	10	0	94.3	60-140	0			
cis-1,2-Dichloroethene	9.73	0.50	10	0	97.3	60-140	0			
cis-1,3-Dichloropropene	9.89	0.50	10	0	98.9	60-140	0			
Cumene	10.31	0.50	10	0	103	60-140	0			
Cyclohexane	9.63	0.50	10	0	96.3	60-140	0			
Dibromochloromethane	10.28	0.50	10	0	103	60-140	0			
Dichlorodifluoromethane	9.85	0.50	10	0	98.5	60-140	0			
Ethyl acetate	9.8	0.50	10	0	98	60-140	0			
Ethylbenzene	9.85	0.50	10	0	98.5	60-140	0			
Freon 113	9.82	0.50	10	0	98.2	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 1909928
Project: TWP Roswell Station #9

QC BATCH REPORT

Batch ID: **R170765**	Instrument ID **VMS4**		Method: **ETO-15**				
Freon 114	9.94	0.50	10	0	99.4	60-140	0
Heptane	9.8	0.50	10	0	98	60-140	0
Hexachlorobutadiene	10.43	0.50	10	0	104	60-140	0
Hexane	8.51	0.50	10	0	85.1	60-140	0
m,p-Xylene	19.88	0.50	20	0	99.4	60-140	0
Methylene chloride	9.52	2.0	10	0	95.2	60-140	0
MTBE	10.08	0.50	10	0	101	60.8-151	0
Naphthalene	10.84	0.20	10	0	108	53.1-152	0
o-Xylene	10.12	0.50	10	0	101	60-140	0
Propene	9.22	0.50	10	0	92.2	34.4-139	0
Styrene	10.37	0.50	10	0	104	60-140	0
Tetrachloroethene	9.83	0.50	10	0	98.3	60-140	0
Tetrahydrofuran	11.04	0.50	10	0	110	60-140	0
Toluene	9.81	0.50	10	0	98.1	60-140	0
trans-1,2-Dichloroethene	9.32	0.50	10	0	93.2	60-140	0
trans-1,3-Dichloropropene	10.19	0.50	10	0	102	60-140	0
Trichloroethene	9.62	0.20	10	0	96.2	60-140	0
Trichlorofluoromethane	9.56	0.50	10	0	95.6	60-140	0
Vinyl acetate	9.97	0.50	10	0	99.7	48.4-145	0
Vinyl chloride	9.52	0.50	10	0	95.2	60-140	0
Surr: Bromofluorobenzene	9.7	0	*10*	0	*97*	*60-140*	0

The following samples were analyzed in this batch: 1909928-01A 1909928-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 09-Oct-19

Client: EarthCon
Project: TWP Roswell Station #9
WorkOrder: **1909928**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **19-Sep-19 12:58**

Work Order: **1909928** Received by: **JNW**

Checklist completed by Joe Ribar 20-Sep-19 Reviewed by: Shawn Smythe 23-Sep-19
eSignature Date eSignature Date

Matrices: Air
Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

29-Jan-2020

Steve Diamond
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Tel: (678) 569-2892
Fax: (770) 973-7395

Re: TWP Roswell Station 9 Work Order: **2001557**

Dear Steve,

ALS Environmental received 2 samples on 16-Jan-2020 01:15 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 29-Jan-20

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: **2001557**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
2001557-01	TWP West Baker Furnace	Air		1/13/2020	1/16/2020 13:15	☐
2001557-02	TWP East Baker Furnace	Air		1/13/2020	1/16/2020 13:15	☐

ALS Environmental

Date: 29-Jan-20

Client: EarthCon
Project: TWP Roswell Station 9
Work Order: 2001557

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1-Dichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,1-Dichloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dibromoethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dichloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,2-Dichloropropane	ND		250	ppbv	500	1/23/2020 09:10 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,3-Butadiene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
1,4-Dioxane	ND		500	ppbv	500	1/23/2020 09:10 PM
2-Butanone	ND		250	ppbv	500	1/23/2020 09:10 PM
2-Hexanone	ND		500	ppbv	500	1/23/2020 09:10 PM
2-Propanol	ND		500	ppbv	500	1/23/2020 09:10 PM
4-Ethyltoluene	ND		250	ppbv	500	1/23/2020 09:10 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	1/23/2020 09:10 PM
Acetone	ND		500	ppbv	500	1/23/2020 09:10 PM
Benzene	**780**		**250**	**ppbv**	500	1/23/2020 09:10 PM
Benzyl chloride	ND		250	ppbv	500	1/23/2020 09:10 PM
Bromodichloromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Bromoform	ND		250	ppbv	500	1/23/2020 09:10 PM
Bromomethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Carbon disulfide	ND		250	ppbv	500	1/23/2020 09:10 PM
Carbon tetrachloride	ND		250	ppbv	500	1/23/2020 09:10 PM
Chlorobenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
Chloroethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Chloroform	ND		100	ppbv	500	1/23/2020 09:10 PM
Chloromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 09:10 PM
Cumene	ND		250	ppbv	500	1/23/2020 09:10 PM
Cyclohexane	**24,000**		**2,500**	**ppbv**	5000	1/23/2020 08:26 PM
Dibromochloromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Dichlorodifluoromethane	ND		250	ppbv	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	1/23/2020 09:10 PM
Ethylbenzene	ND		250	ppbv	500	1/23/2020 09:10 PM
Freon 113	ND		250	ppbv	500	1/23/2020 09:10 PM
Freon 114	ND		250	ppbv	500	1/23/2020 09:10 PM
Heptane	**18,000**		**2,500**	**ppbv**	5000	1/23/2020 08:26 PM
Hexachlorobutadiene	ND		250	ppbv	500	1/23/2020 09:10 PM
Hexane	**41,000**		**2,500**	**ppbv**	5000	1/23/2020 08:26 PM
m,p-Xylene	**360**		**250**	**ppbv**	500	1/23/2020 09:10 PM
Methylene chloride	ND		1,000	ppbv	500	1/23/2020 09:10 PM
MTBE	ND		250	ppbv	500	1/23/2020 09:10 PM
Naphthalene	ND		100	ppbv	500	1/23/2020 09:10 PM
o-Xylene	ND		250	ppbv	500	1/23/2020 09:10 PM
Propene	ND		250	ppbv	500	1/23/2020 09:10 PM
Styrene	ND		250	ppbv	500	1/23/2020 09:10 PM
Tetrachloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
Tetrahydrofuran	ND		250	ppbv	500	1/23/2020 09:10 PM
Toluene	**800**		**250**	**ppbv**	500	1/23/2020 09:10 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 09:10 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 09:10 PM
Trichloroethene	ND		100	ppbv	500	1/23/2020 09:10 PM
Trichlorofluoromethane	ND		250	ppbv	500	1/23/2020 09:10 PM
Vinyl acetate	ND		250	ppbv	500	1/23/2020 09:10 PM
Vinyl chloride	ND		250	ppbv	500	1/23/2020 09:10 PM
Surr: Bromofluorobenzene	*96.4*		*60-140*	*%REC*	500	1/23/2020 09:10 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 09:10 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	1/23/2020 09:10 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 09:10 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 09:10 PM
1,1-Dichloroethene	ND		991	µg/m3	500	1/23/2020 09:10 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	1/23/2020 09:10 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	1/23/2020 09:10 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 09:10 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 09:10 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	1/23/2020 09:10 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
1,3-Butadiene	ND		553	µg/m3	500	1/23/2020 09:10 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 09:10 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	1/23/2020 09:10 PM
2-Butanone	ND		737	µg/m3	500	1/23/2020 09:10 PM
2-Hexanone	ND		2,050	µg/m3	500	1/23/2020 09:10 PM
2-Propanol	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	1/23/2020 09:10 PM
Acetone	ND		1,190	µg/m3	500	1/23/2020 09:10 PM
Benzene	**2,480**		**799**	**µg/m3**	500	1/23/2020 09:10 PM
Benzyl chloride	ND		1,290	µg/m3	500	1/23/2020 09:10 PM
Bromodichloromethane	ND		1,680	µg/m3	500	1/23/2020 09:10 PM
Bromoform	ND		2,580	µg/m3	500	1/23/2020 09:10 PM
Bromomethane	ND		971	µg/m3	500	1/23/2020 09:10 PM
Carbon disulfide	ND		778	µg/m3	500	1/23/2020 09:10 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	1/23/2020 09:10 PM
Chlorobenzene	ND		1,150	µg/m3	500	1/23/2020 09:10 PM
Chloroethane	ND		660	µg/m3	500	1/23/2020 09:10 PM
Chloroform	ND		488	µg/m3	500	1/23/2020 09:10 PM
Chloromethane	ND		516	µg/m3	500	1/23/2020 09:10 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 09:10 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 09:10 PM
Cumene	ND		1,230	µg/m3	500	1/23/2020 09:10 PM
Cyclohexane	**83,100**		**8,610**	**µg/m3**	5000	1/23/2020 08:26 PM
Dibromochloromethane	ND		2,130	µg/m3	500	1/23/2020 09:10 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	1/23/2020 09:10 PM
Ethyl acetate	ND		901	µg/m3	500	1/23/2020 09:10 PM
Ethylbenzene	ND		1,090	µg/m3	500	1/23/2020 09:10 PM
Freon 113	ND		1,920	µg/m3	500	1/23/2020 09:10 PM
Freon 114	ND		1,750	µg/m3	500	1/23/2020 09:10 PM
Heptane	**72,300**		**10,200**	**µg/m3**	5000	1/23/2020 08:26 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	1/23/2020 09:10 PM
Hexane	**144,000**		**8,810**	**µg/m3**	5000	1/23/2020 08:26 PM
m,p-Xylene	**1,580**		**1,090**	**µg/m3**	500	1/23/2020 09:10 PM
Methylene chloride	ND		3,500	µg/m3	500	1/23/2020 09:10 PM
MTBE	ND		901	µg/m3	500	1/23/2020 09:10 PM
Naphthalene	ND		524	µg/m3	500	1/23/2020 09:10 PM
o-Xylene	ND		1,090	µg/m3	500	1/23/2020 09:10 PM
Propene	ND		430	µg/m3	500	1/23/2020 09:10 PM
Styrene	ND		1,060	µg/m3	500	1/23/2020 09:10 PM
Tetrachloroethene	ND		1,700	µg/m3	500	1/23/2020 09:10 PM
Tetrahydrofuran	ND		737	µg/m3	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP West Baker Furnace **Lab ID:** 2001557-01
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**3,000**		**942**	**µg/m3**	500	1/23/2020 09:10 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 09:10 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 09:10 PM
Trichloroethene	ND		537	µg/m3	500	1/23/2020 09:10 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	1/23/2020 09:10 PM
Vinyl acetate	ND		880	µg/m3	500	1/23/2020 09:10 PM
Vinyl chloride	ND		639	µg/m3	500	1/23/2020 09:10 PM
Surr: Bromofluorobenzene	*96.4*		*60-140*	*%REC*	500	1/23/2020 09:10 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1,2-Trichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1-Dichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,1-Dichloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dibromoethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dichloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,2-Dichloropropane	ND		250	ppbv	500	1/23/2020 10:40 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,3-Butadiene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,4-Dichlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
1,4-Dioxane	ND		500	ppbv	500	1/23/2020 10:40 PM
2-Butanone	ND		250	ppbv	500	1/23/2020 10:40 PM
2-Hexanone	ND		500	ppbv	500	1/23/2020 10:40 PM
2-Propanol	ND		500	ppbv	500	1/23/2020 10:40 PM
4-Ethyltoluene	ND		250	ppbv	500	1/23/2020 10:40 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	1/23/2020 10:40 PM
Acetone	ND		500	ppbv	500	1/23/2020 10:40 PM
Benzene	ND		250	ppbv	500	1/23/2020 10:40 PM
Benzyl chloride	ND		250	ppbv	500	1/23/2020 10:40 PM
Bromodichloromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Bromoform	ND		250	ppbv	500	1/23/2020 10:40 PM
Bromomethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Carbon disulfide	ND		250	ppbv	500	1/23/2020 10:40 PM
Carbon tetrachloride	ND		250	ppbv	500	1/23/2020 10:40 PM
Chlorobenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
Chloroethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Chloroform	ND		100	ppbv	500	1/23/2020 10:40 PM
Chloromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 10:40 PM
Cumene	ND		250	ppbv	500	1/23/2020 10:40 PM
Cyclohexane	**11,000**		**250**	**ppbv**	500	1/23/2020 10:40 PM
Dibromochloromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Dichlorodifluoromethane	ND		250	ppbv	500	1/23/2020 10:40 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	1/23/2020 10:40 PM
Ethylbenzene	ND		250	ppbv	500	1/23/2020 10:40 PM
Freon 113	ND		250	ppbv	500	1/23/2020 10:40 PM
Freon 114	ND		250	ppbv	500	1/23/2020 10:40 PM
Heptane	**7,300**		**250**	**ppbv**	500	1/23/2020 10:40 PM
Hexachlorobutadiene	ND		250	ppbv	500	1/23/2020 10:40 PM
Hexane	**18,000**		**2,500**	**ppbv**	5000	1/23/2020 09:56 PM
m,p-Xylene	ND		250	ppbv	500	1/23/2020 10:40 PM
Methylene chloride	ND		1,000	ppbv	500	1/23/2020 10:40 PM
MTBE	ND		250	ppbv	500	1/23/2020 10:40 PM
Naphthalene	ND		100	ppbv	500	1/23/2020 10:40 PM
o-Xylene	ND		250	ppbv	500	1/23/2020 10:40 PM
Propene	ND		250	ppbv	500	1/23/2020 10:40 PM
Styrene	ND		250	ppbv	500	1/23/2020 10:40 PM
Tetrachloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
Tetrahydrofuran	ND		250	ppbv	500	1/23/2020 10:40 PM
Toluene	ND		250	ppbv	500	1/23/2020 10:40 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	1/23/2020 10:40 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	1/23/2020 10:40 PM
Trichloroethene	ND		100	ppbv	500	1/23/2020 10:40 PM
Trichlorofluoromethane	ND		250	ppbv	500	1/23/2020 10:40 PM
Vinyl acetate	ND		250	ppbv	500	1/23/2020 10:40 PM
Vinyl chloride	ND		250	ppbv	500	1/23/2020 10:40 PM
Surr: Bromofluorobenzene	*95.1*		*60-140*	*%REC*	500	1/23/2020 10:40 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 10:40 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	1/23/2020 10:40 PM
1,1,2-Trichloroethane	ND		1,360	µg/m3	500	1/23/2020 10:40 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 10:40 PM
1,1-Dichloroethene	ND		991	µg/m3	500	1/23/2020 10:40 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	1/23/2020 10:40 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
1,2-Dibromoethane	ND		1,920	µg/m3	500	1/23/2020 10:40 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 10:40 PM
1,2-Dichloroethane	ND		1,010	µg/m3	500	1/23/2020 10:40 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	1/23/2020 10:40 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
1,3-Butadiene	ND		553	µg/m3	500	1/23/2020 10:40 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 10:40 PM
1,4-Dichlorobenzene	ND		1,500	µg/m3	500	1/23/2020 10:40 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	1/23/2020 10:40 PM
2-Butanone	ND		737	µg/m3	500	1/23/2020 10:40 PM
2-Hexanone	ND		2,050	µg/m3	500	1/23/2020 10:40 PM
2-Propanol	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	1/23/2020 10:40 PM
Acetone	ND		1,190	µg/m3	500	1/23/2020 10:40 PM
Benzene	ND		799	µg/m3	500	1/23/2020 10:40 PM
Benzyl chloride	ND		1,290	µg/m3	500	1/23/2020 10:40 PM
Bromodichloromethane	ND		1,680	µg/m3	500	1/23/2020 10:40 PM
Bromoform	ND		2,580	µg/m3	500	1/23/2020 10:40 PM
Bromomethane	ND		971	µg/m3	500	1/23/2020 10:40 PM
Carbon disulfide	ND		778	µg/m3	500	1/23/2020 10:40 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	1/23/2020 10:40 PM
Chlorobenzene	ND		1,150	µg/m3	500	1/23/2020 10:40 PM
Chloroethane	ND		660	µg/m3	500	1/23/2020 10:40 PM
Chloroform	ND		488	µg/m3	500	1/23/2020 10:40 PM
Chloromethane	ND		516	µg/m3	500	1/23/2020 10:40 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 10:40 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 10:40 PM
Cumene	ND		1,230	µg/m3	500	1/23/2020 10:40 PM
Cyclohexane	**38,000**		**861**	**µg/m3**	500	1/23/2020 10:40 PM
Dibromochloromethane	ND		2,130	µg/m3	500	1/23/2020 10:40 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	1/23/2020 10:40 PM
Ethyl acetate	ND		901	µg/m3	500	1/23/2020 10:40 PM
Ethylbenzene	ND		1,090	µg/m3	500	1/23/2020 10:40 PM
Freon 113	ND		1,920	µg/m3	500	1/23/2020 10:40 PM
Freon 114	ND		1,750	µg/m3	500	1/23/2020 10:40 PM
Heptane	**30,000**		**1,020**	**µg/m3**	500	1/23/2020 10:40 PM
Hexachlorobutadiene	ND		2,670	µg/m3	500	1/23/2020 10:40 PM
Hexane	**61,700**		**8,810**	**µg/m3**	5000	1/23/2020 09:56 PM
m,p-Xylene	ND		1,090	µg/m3	500	1/23/2020 10:40 PM
Methylene chloride	ND		3,500	µg/m3	500	1/23/2020 10:40 PM
MTBE	ND		901	µg/m3	500	1/23/2020 10:40 PM
Naphthalene	ND		524	µg/m3	500	1/23/2020 10:40 PM
o-Xylene	ND		1,090	µg/m3	500	1/23/2020 10:40 PM
Propene	ND		430	µg/m3	500	1/23/2020 10:40 PM
Styrene	ND		1,060	µg/m3	500	1/23/2020 10:40 PM
Tetrachloroethene	ND		1,700	µg/m3	500	1/23/2020 10:40 PM
Tetrahydrofuran	ND		737	µg/m3	500	1/23/2020 10:40 PM

Note:

ALS Environmental

Date: *29-Jan-20*

Client: EarthCon
Project: TWP Roswell Station 9 **Work Order:** 2001557
Sample ID: TWP East Baker Furnace **Lab ID:** 2001557-02
Collection Date: 1/13/2020 **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	1/23/2020 10:40 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	1/23/2020 10:40 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/23/2020 10:40 PM
Trichloroethene	ND		537	µg/m3	500	1/23/2020 10:40 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	1/23/2020 10:40 PM
Vinyl acetate	ND		880	µg/m3	500	1/23/2020 10:40 PM
Vinyl chloride	ND		639	µg/m3	500	1/23/2020 10:40 PM
Surr: Bromofluorobenzene	*95.1*		*60-140*	*%REC*	500	1/23/2020 10:40 PM

Note:

ALS Laboratory Group
4388 Glendale-Milford Rd
Cincinnati, OH 45242
Ph: 513-733-5336
Fax: 513-733-5347
www.alsglobal.com

TVOC ****

Client: Earthcon
Client Sample ID: TWP Roswell West Baker Furnaces
ALS Sample # 2001557-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	221326	PPBV
	TVOC**	780027	ug/m3

Client: Earthcon
Client Sample ID: TWP Roswell East Baker Furnaces
ALS Sample # 2001557-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	111613	PPBV
	TVOC**	393362	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 29-Jan-20

Client: EarthCon

Work Order: 2001557

Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID **MBLK-R174263** Units: **ppbv** Analysis Date: **1/23/2020 01:44 PM**

Client ID: Run ID: **VMS4_200123A** SeqNo: **2177508** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 2001557
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	0.50						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	9.08	0	*10*	0	*90.8*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 2001557
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID **LCS-R174263** Units: **ppbv** Analysis Date: **1/23/2020 12:15 PM**
Client ID: Run ID: **VMS4_200123A** SeqNo: **2177506** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.64	0.50	10	0	96.4	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.39	0.50	10	0	104	60-140	0			
1,1,2-Trichloroethane	10.26	0.50	10	0	103	60-140	0			
1,1-Dichloroethane	9.43	0.50	10	0	94.3	60-140	0			
1,1-Dichloroethene	9.85	0.50	10	0	98.5	60-140	0			
1,2,4-Trichlorobenzene	7.94	0.50	10	0	79.4	49.3-150	0			
1,2,4-Trimethylbenzene	10.45	0.50	10	0	104	50.1-162	0			
1,2-Dibromoethane	10.65	0.50	10	0	106	60-140	0			
1,2-Dichlorobenzene	10.14	0.50	10	0	101	41.9-141	0			
1,2-Dichloroethane	9.52	0.50	10	0	95.2	60-140	0			
1,2-Dichloropropane	9.84	0.50	10	0	98.4	60-140	0			
1,3,5-Trimethylbenzene	10.22	0.50	10	0	102	60-140	0			
1,3-Butadiene	14.31	0.50	10	0	143	50.6-140	0			S
1,3-Dichlorobenzene	10.48	0.50	10	0	105	60-140	0			
1,4-Dichlorobenzene	10.25	0.50	10	0	102	55.1-145	0			
1,4-Dioxane	8.39	1.0	10	0	83.9	60-140	0			
2-Butanone	9.84	0.50	10	0	98.4	60-140	0			
2-Hexanone	8.6	1.0	10	0	86	56.2-162	0			
2-Propanol	8.15	1.0	10	0	81.5	60-140	0			
4-Ethyltoluene	10.83	0.50	10	0	108	60-140	0			
4-Methyl-2-pentanone	9.97	1.0	10	0	99.7	60-140	0			
Acetone	8.24	1.0	10	0	82.4	60-140	0			
Benzene	9.6	0.50	10	0	96	60-140	0			
Benzyl chloride	10.08	0.50	10	0	101	31.9-174	0			
Bromodichloromethane	10.12	0.50	10	0	101	60-140	0			
Bromoform	10.52	0.50	10	0	105	60-140	0			
Bromomethane	13.32	0.50	10	0	133	60-140	0			
Carbon disulfide	9.68	0.50	10	0	96.8	60-140	0			
Carbon tetrachloride	9.96	0.50	10	0	99.6	60-140	0			
Chlorobenzene	10.16	0.50	10	0	102	60-140	0			
Chloroethane	10.01	0.50	10	0	100	60-140	0			
Chloroform	9.71	0.20	10	0	97.1	60-140	0			
Chloromethane	10.72	0.50	10	0	107	60-140	0			
cis-1,2-Dichloroethene	9.95	0.50	10	0	99.5	60-140	0			
cis-1,3-Dichloropropene	9.7	0.50	10	0	97	60-140	0			
Cumene	10.5	0.50	10	0	105	60-140	0			
Cyclohexane	9.65	0.50	10	0	96.5	60-140	0			
Dibromochloromethane	10.81	0.50	10	0	108	60-140	0			
Dichlorodifluoromethane	11.3	0.50	10	0	113	60-140	0			
Ethyl acetate	9.79	0.50	10	0	97.9	60-140	0			
Ethylbenzene	10.09	0.50	10	0	101	60-140	0			
Freon 113	10.24	0.50	10	0	102	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 2001557
Project: TWP Roswell Station 9

QC BATCH REPORT

Batch ID: **R174263**	Instrument ID **VMS4**		Method: **ETO-15**				
Freon 114	11.12	0.50	10	0	111	60-140	0
Heptane	9.52	0.50	10	0	95.2	60-140	0
Hexachlorobutadiene	8.72	0.50	10	0	87.2	60-140	0
Hexane	9.45	0.50	10	0	94.5	60-140	0
m,p-Xylene	20.91	0.50	20	0	105	60-140	0
Methylene chloride	9.66	2.0	10	0	96.6	60-140	0
MTBE	9.24	0.50	10	0	92.4	60.8-151	0
Naphthalene	8.11	0.20	10	0	81.1	53.1-152	0
o-Xylene	10.25	0.50	10	0	102	60-140	0
Propene	10.67	0.50	10	0	107	34.4-139	0
Styrene	10.81	0.50	10	0	108	60-140	0
Tetrachloroethene	9.59	0.50	10	0	95.9	60-140	0
Tetrahydrofuran	9.53	0.50	10	0	95.3	60-140	0
Toluene	10.13	0.50	10	0	101	60-140	0
trans-1,2-Dichloroethene	9.89	0.50	10	0	98.9	60-140	0
trans-1,3-Dichloropropene	9.64	0.50	10	0	96.4	60-140	0
Trichloroethene	10	0.20	10	0	100	60-140	0
Trichlorofluoromethane	10.23	0.50	10	0	102	60-140	0
Vinyl acetate	8.29	0.50	10	0	82.9	48.4-145	0
Vinyl chloride	13.25	0.50	10	0	132	60-140	0
Surr: Bromofluorobenzene	9.93	0	*10*	0	*99.3*	*60-140*	0

The following samples were analyzed in this batch: 2001557-01A 2001557-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 29-Jan-20

Client: EarthCon
Project: TWP Roswell Station 9
WorkOrder: **2001557**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: **EARTHCON-MARIETTA** Date/Time Received: **16-Jan-20 13:15**

Work Order: **2001557** Received by: **SNH**

Checklist completed by Jan Wilcox 16-Jan-20 Reviewed by: Shawn Smythe 17-Jan-20
eSignature Date eSignature Date

Matrices:
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix D

Historical SVE System Table for Gasoline Range Organics

APPENDIX D: Historical Summary of Vapor Sample Analyses for the SVE System (Gasoline Range VOCs) Transwestern Compressor Station No. 9 - Roswell, NM

Sample ID	Date	Gasoline Range VOCs		Estimated Process Flow	Potential Emissions	< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ug/L)	(ppbv) [a]	(scfm)	(lb/hr)	(%)									
West Baker Furnace	10/06/09	1,770	539	142	0.9	--	10.5	46.2	38.1	4.0	1.2	0.0	0.0	0.0	0.0
West Baker Furnace	08/10/11	3,200	974	147	1.8	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	07/03/12	3,700	1,126	162	2.2	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	10/05/12	1,400	426	162	0.8	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	10/22/12	1,670	508	162	1.0	--	17.1	44.2	28.6	4.2	5.0	0.5	0.2	0.1	0.1
West Baker Furnace	01/29/13	1,130	344	160	0.7	--	20.3	44.9	25.9	3.9	4.6	0.3	0.0	0.1	0.0
West Baker Furnace	02/27/13	1,120	341	160	0.7	--	14.2	40.2	30.2	6.1	8.3	0.6	0.4	0.0	0.0
West Baker Furnace	03/29/13	694	211	160	0.4	--	14.8	42.0	29.5	8.1	5.1	0.2	0.1	0.2	0.0
West Baker Furnace	04/30/13	850	259	160	0.5	--	31.1	32.1	23.6	8.0	4.3	0.7	0.1	0.1	0.0
West Baker Furnace	05/16/13	5,610	1,707	160	3.4	--	33.5	31.4	26.8	5.8	2.0	0.4	0.1	0.0	0.0
West Baker Furnace	06/17/13	4,600	1,400	160	2.8	--	--	--	--	--	--	--	--	--	--
West Baker Furnace	07/17/13	4,680	1,424	160	2.8	--	28.6	30.3	30.3	6.9	3.5	0.3	0.1	0.0	0.0
West Baker Furnace	08/27/13	3,040	925	160	1.8	--	25.7	28.7	31.0	8.3	5.0	0.9	0.3	0.1	0.0
West Baker Furnace	09/25/13	2,280	694	160	1.4	--	25.4	29.5	24.8	10.0	7.5	1.9	0.8	0.1	0.0
West Baker Furnace	10/17/13	1,900	578	160	1.1	--	28.0	38.7	21.3	7.4	3.6	0.5	0.4	0.1	0.0
West Baker Furnace	11/22/13	2,100	639	160	1.3	--	31.9	35.5	23.4	5.9	3.0	0.1	0.1	0.1	0.0
West Baker Furnace	12/17/13	1,980	603	160	1.2	--	28.6	37.8	21.0	7.3	4.1	0.7	0.3	0.2	0.0
East Baker Furnace	10/06/09	2,010	612	216	1.6	--	15.4	49.3	31.4	2.9	1.0	0.0	0.0	0.0	0.0
East Baker Furnace	08/10/11	2,200	669	147	1.2	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	07/03/12	2,100	639	159	1.3	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	10/05/12	1,200	365	159	0.7	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	10/22/12	1,780	542	160	1.1	--	15.3	41.0	29.6	5.8	7.1	0.9	0.1	0.1	0.1
East Baker Furnace	01/29/13	928	282	160	0.6	--	16.4	46.9	24.9	6.2	5.4	0.2	0.0	0.0	0.0
East Baker Furnace	02/27/13	860	262	160	0.5	--	15.2	43.2	30.0	6.2	5.2	0.2	0.0	0.0	0.0
East Baker Furnace	03/29/13	555	169	160	0.3	--	16.6	47.6	24.4	6.1	4.5	0.5	0.2	0.1	0.0
East Baker Furnace	04/30/13	772	235	160	0.5	--	27.7	28.9	29.6	8.0	4.6	0.9	0.2	0.1	0.0
East Baker Furnace	05/16/13	5,350	1,628	160	3.2	--	31.4	30.2	27.7	6.9	2.7	0.8	0.2	0.1	0.0
East Baker Furnace	06/17/13	4,700	1,430	160	2.8	--	--	--	--	--	--	--	--	--	--
East Baker Furnace	07/17/13	5,780	1,759	160	3.5	--	29.5	29.8	29.1	7.0	3.6	0.8	0.2	0.0	0.0
East Baker Furnace	08/27/13	3,040	925	160	1.8	--	25.6	28.7	31.0	8.5	5.1	0.9	0.2	0.0	0.0
East Baker Furnace	09/25/13	2,040	621	160	1.2	--	25.9	30.1	25.4	9.5	7.4	1.2	0.4	0.1	0.0
East Baker Furnace	10/17/13	1,650	502	160	1.0	--	30.5	32.8	22.8	7.9	4.6	0.6	0.4	0.2	0.2
East Baker Furnace	11/22/13	1,960	596	160	1.2	--	29.6	32.5	24.2	7.9	4.4	0.7	0.4	0.3	0.0
East Baker Furnace	12/17/13	1,770	539	160	1.1	--	31.4	33.2	22.8	7.2	4.2	0.6	0.3	0.3	0.0

(a) Conversion Factor:

P = 1.00 atm, MW = 79 g/mole, R = 0.08205 L*atm/(K*mole), T = 293^{o}K

C ppbv = C ug/L * ((R * T)/(MW*P))

C ppbv = C ug/L * 0.3043

APPENDIX D: Historical SVE System Potential Emissions Estimate for Gasoline Range Organics
Transwestern Compressor Station No. 9 - Roswell, NM

	West Unit				East Unit				Total				
Date	Total GRO C(ug/L)	Flow Rate Q(scfm)	Potential Emissions M(lb/hr)	Projected TPY M(tons/yr)	Total GRO C(ug/L)	Flow Rate Q(scfm)	Potential Emissions M(lb/hr)	Projected TPY M(tons/yr)	Flow Rate Q(scfm)	Potential Emissions M(lb/hr)	Projected TPY M(tons/yr)	Projected GPY M(gal/yr)	Projected PPY M(lbs/yr)
05/21/03	3,220	128	1.5	6.8	1,850	175	1.2	5.3	303	2.8	12.1	3,810	24,147
06/04/03	3,660	127	1.7	7.6	3,450	142	1.8	8.0	269	3.6	15.7	4,942	31,326
12/15/04	979	157	0.6	2.5	2,800	215	2.3	9.9	372	2.8	12.4	3,912	24,796
07/15/05	2,120	153	1.2	5.3	4,140	184	2.9	12.5	337	4.1	17.8	5,622	35,638
05/01/06	2,200	160	1.3	5.8	4,470	198	3.3	14.5	358	4.6	20.3	6,404	40,590
09/13/06	990	165	0.6	2.7	3,140	210	2.5	10.8	375	3.1	13.5	4,259	26,996
06/22/07	826	161	0.5	2.2	1,300	206	1.0	4.4	367	1.5	6.6	2,075	13,150
07/02/08	728	150	0.4	1.8	1,420	193	1.0	4.5	343	1.4	6.3	1,984	12,575
11/05/08	5,840	140	3.1	13.4	4,580	177	3.0	13.3	317	6.1	26.7	8,429	53,426
10/06/09	1,770	142	0.9	4.1	2,010	216	1.6	7.1	358	2.6	11.2	3,549	22,492
08/10/11	3,200	147	1.8	7.7	2,200	147	1.2	5.3	294	3.0	13.0	4,109	26,046
07/03/12	3,700	162	2.2	9.8	2,100	159	1.3	5.5	321	3.5	15.3	4,831	30,623
10/05/12	1,400	162	0.8	3.7	1,200	159	0.7	3.1	321	1.6	6.9	2,162	13,702
10/22/12	1,670	162	1.0	4.4	1,780	160	1.1	4.7	322	2.1	9.1	2,875	18,222
01/29/13	1,130	160	0.7	3.0	928	160	0.6	2.4	320	1.2	5.4	1,705	10,804
02/27/13	1,120	160	0.7	2.9	860	160	0.5	2.3	320	1.2	5.2	1,640	10,395
03/29/13	694	160	0.4	1.8	555	160	0.3	1.5	320	0.7	3.3	1,035	6,557
04/30/13	850	160	0.5	2.2	772	160	0.5	2.0	320	1.0	4.3	1,343	8,515
05/16/13	5,610	160	3.4	14.7	5,350	160	3.2	14.0	320	6.6	28.8	9,078	57,539
06/17/13	4,600	160	2.8	12.1	4,700	160	2.8	12.3	320	5.6	24.4	7,703	48,824
07/17/13	4,680	160	2.8	12.3	5,780	160	3.5	15.2	320	6.3	27.5	8,664	54,914
08/27/13	3,040	160	1.8	8.0	3,040	160	1.8	8.0	320	3.6	16.0	5,036	31,919
09/25/13	2,280	160	1.4	6.0	2,040	160	1.2	5.4	320	2.6	11.3	3,578	22,679
10/17/13	1,900	160	1.1	5.0	1,650	160	1.0	4.3	320	2.1	9.3	2,940	18,637
11/22/13	2,100	160	1.3	5.5	1,960	160	1.2	5.1	320	2.4	10.7	3,363	21,315
12/17/13	1,980	160	1.2	5.2	1,770	160	1.1	4.6	320	2.2	9.8	3,106	19,687

Notes:

1) Concentrations based on Hall Lab analysis of SVE system samples

Received by OCD: 10/21/2022 8:37:26 AM

Accepted for the record
11/22/2022

NV

TRANSWESTERN PIPELINE COMPANY
An ENERGY TRANSFER Company

March 16, 2021

Mr. Kevin Pierard
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

RE: Additional Response to Comments 10/14/2020
Approval With Modification
2019 Groundwater Remediation Activities Former Surface Impoundments
Roswell Compressor Station No. 9
Transwestern Pipeline Company
Roswell, Chaves County, New Mexico
NMOCD Abatement Plan #AP-125 (formerly #GW-052)
EPA ID No. NMD986676955
HWB-TWP-20-001

Dear Mr. Pierard;

Transwestern Pipeline, LLC (Transwestern) submits this *Additional Response to Comments* (RTC) regarding the *Approval with Modification Comments regarding the 2019 Annual Report* for the above referenced Site received from the New Mexico Environment Department (NMED). To respond specifically to each of the Agencies comments dated November 25, 2020, the original comment included within the NMED letter is in **bold**, with the Transwestern response included in plain text immediately following the item requiring a response.

Comment 1

The response to NMED's Approval with Modifications Comment 7 states, "according to the May 2014 US EPA SAP [Sampling and Analysis Plan] Guidance, well stabilization was met." Section 3.0, Semi-Annual Groundwater Monitoring, page 4, was appropriately revised to include the stabilization criteria. However, the response to the comment does not indicate which sections were updated. Indicate the sections and page numbers where pertinent revisions were made to the Report in all future response letters. This comment only applies to all future responses.

Comment noted.

Comment 2

The response to NMED's Approval with Modifications Comment 7 states, "water quality is considered stable if for three consecutive readings:

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• Temperature range is no more than + 1C.

• pH varies by no more than 0.2 pH units; and,

• Specific conductance readings are within 10% of the average.

According to the May 2014 US EPA SAP Guidance, well stabilization was met."

The last three pH readings collected from well SVE-30 during the January 8, 2020 are reported as 4.81, 5.27, and 5.04 according to Appendix A. Some samples were collected prior to meeting the well stabilization criteria. If samples are collected without meeting the criteria, identify such samples and provide a justification for why such sampling results are acceptable in future reports.

Comment noted.

Comment 3

The response to NMED's Approval with Modifications Comment 9 states, "comment noted." NMED's Approval with Modifications Comment 9 states, "a hard copy of the laboratory analytical reports is not required in the future reports. Provide an electronic copy only in the future reports." However, a hard copy of the laboratory analytical reports was included in the revised Report (Attachment A). The response to NMED's Approval with Modifications Comment 1 states, "due to circumstances associated with COVID (2020), the availability to conduct business and allow the opportunity to bind copies was limited." If a large number of pages associated with the laboratory analytical reports was not included in the Report, the preparation of documents (e.g., copying, binding) will be possible since there will be significantly less pages.

Lab reports will be submitted electronically, and the report will be bound.

Comment 4

The response to NMED's Approval with Modifications Comment 11 states, "Transwestern does not believe it is necessary to install piezometers at this time but will evaluate other options to evaluate drawdown influences from well RW-1." In a response letter, provide an explanation for why the Respondent does not believe it is necessary to install piezometers for well RW-1 since the distance between the nearest groundwater monitoring well with a comparable screened interval and well RW-1 exceeds 50 feet. In addition, explain what options other than installation of piezometers were evaluated to assess drawdown influences from well RW-1 in the response letter.

Transwestern evaluated the presence of a perch aquifer by monitoring the groundwater recovery rates from the pumping well RW-1 and the groundwater drawdown influence from RW-1 and existing nearby monitoring well SVE-28, initially. Upon review of the initial evaluation, it was

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Transwestern's intent to consider other options to implement (such as piezometer installation) if needed to further evaluate the presence of a perch aquifer. Based on the results of the initial evaluation, a perch aquifer apparently exists and further evaluation is not warranted. Information associated with the perch aquifer evaluation and corrective action recommendations will be presented in the 2020 Annual Report.

Comment 5

The response to NMED's Approval with Modifications Comment 13 states, "several components of the current groundwater treatment system (equipment, piping, valves, etc.) are uncovered and exposed to the weather. Transwestern attempts to minimize long system deactivation periods…," and "if the data suggest that the groundwater plume or LNAPL is moving and concentrations trends is [sic] increasing, Transwestern will evaluate measures that will allow the groundwater treatment system to operate through the winter months, minimizing deactivation periods." Whether or not LNAPL plume is expanding or constituent concentrations are increasing, the Respondent must implement measures to minimize long system deactivation periods. The Respondent must install measures to protect the groundwater treatment system from cold temperatures and minimize system deactivation periods. Provide a list of the measures that will be implemented to protect the system from cold temperature and approximate date when they will be added to the system in the response letter.

Transwestern has implemented measures to protect the groundwater treatment system and to help reduce long deactivation periods by installing heat tape and pipe insulation throughout the process.

Transwestern reviewed potential cost to winterize the groundwater extraction and treatment equipment components by installing a new heated building, replace the existing outdoor surge tank with an oil/water separator, and replace the spray field with an infiltration gallery. Considering the tasks needed for this upgrade (design, geotechnical study, procurement, installation and permitting), the probable cost for the upgrade could range between $200,000 to $300,000. The benefit for incurring the additional cost to upgrade the system for operating over the extreme winter months would not be considerable since the remaining LNAPL in the subsurface appears to be at residual saturation levels.

Transwestern will install additional heat tape and pipe insulation as needed to help increase uptime during the winter months until extreme freezing temperatures exist over consecutive days in winter months. Constant days of severe freezing would increase the risk of failures and major damage to equipment components, piping system, and spray field and possibly lead to uncontrolled discharges or safety hazards. Therefore, deactivation the system during these occurrences is recommend.

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Furthermore, since the LNAPL and dissolved-phase plume is controlled, it is recommended that the groundwater extraction system operate in a pulsing manner by alternating the operation of select extraction wells over a certain period time. This will allow sufficient time for residual LNAPL to rebound and be recovered more efficiently.

Comment 6

The response letter provides a distribution list for the document on page 8 of 4 [sic]. Remove Ms. K. Van Horn, NMED HWB and Mr. B. Billings, NMOCD from the list and add Mr. M. Bratcher, NMOCD for all future submittals.

Transwestern will exclude Ms. K. Van Horn, NMED HWB, but will continue to include Mr. B. Billings, NMOCD in any correspondence. Mr. M. Bratcher, NMOCD will be included in the distribution list.

Transwestern appreciates the opportunity to continue to work with NMED and NMOCD to continue to bring this site to closure. If you have any further questions or comments regarding these responses, please do not hesitate to contact me at (210) 870-2725 or JD Haines of EarthCon Consultants, Inc. at (317) 450-6126.

Sincerely,

Ms. Stacy Boultinghouse, PG
Environmental Manager
Transwestern Pipeline Company, LLC
Stacy.Boultinghouse@energytransfer.com

Cc: D. Cobain, NMED HWB
M. Suzuki, NMED HWB
Mr. M. Bratcher, NMOCD
B. Billings, NMOCD
L. King, USEPA Region 6
JD Haines, EarthCon
S. Diamond, EarthCon

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CONDITIONS

Action 152549

CONDITIONS

Operator:	OGRID:
Transwestern Pipeline Company, LLC 8501 Jefferson NE Ave Albuquerque, NM 87113	329750
	Action Number: 152549
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See app ID 154725 for most updated status.	11/22/2022