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TRANSWESTERN PIPELINE COMPANY
An ENERGY TRANSFER Company

October 11, 2022

Mr. Rick Shean
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

RE: Response to Approval with Modifications
Report of 2021 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-22-001

Dear Mr. Shean;

Transwestern Pipeline, LLC (Transwestern) submits this *Response to Approval with Modifications Report of 2021 Groundwater Remediation Activities Former Surface Impoundments* regarding the comments received from the New Mexico Environment Department (NMED) via the letter titled *Approval with Modifications Report of 2021 Groundwater Remediation Activities Former Surface Impoundments* for the above referenced Site. To respond specifically to each of the Agency's comments, dated March 1, 2022, 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 Executive Summary, pages iv and v, and Section 1.0 (Introduction), page 2 states, "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." The Respondent's June 2021 Report of Perched Aquifer Evaluation and Future Corrective Action Recommendations identified a perched aquifer that was separate from the upper aquifer. Section 3.2 (Groundwater Monitoring & Chemical Analytical Data Results), page 5 also states that the water bearing unit at the site has been reported as a perched aquifer, an upper aquifer, and the deeper San Andres Formation Aquifer. Accordingly, each aquifer (i.e., the perched aquifer, upper aquifer, deeper regional San Andres Formation Aquifer) must be identified separately. Revise the statement and all applicable sections of the Report and provide replacement

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pages.

Comment noted. Report text revised.

Comment 2

The Executive Summary, pages v, states, "the groundwater portion of the system was manually deactivated in January, February, March, November, and December of 2021 due to freezing temperatures: however, additional cold weather protection, such as heat tape and pipe insulation, have been installed throughout the process in January 2022 to improve operational times during the winter season." Evaluate efficacy of the system operations with cold weather protection installed in January 2022 relative to the previous years' system operations (e.g., comparison of the number of operable days in each year) and provide a discussion in the 2022 report. No response required.

Comment noted.

Comment 3

In Section 3.0 (Semi-annual Groundwater Sampling), page 4, the Respondent states, "field parameters recorded from the May 2021, and November 2021 sampling events are presented in Table 3-3 [and copies of the field documentation are included in Appendix A]." According to Table 3-3 (Summary of Field Parameters), wells SVE-28, SVE-30, and RW-1 were not sampled in May 2021 due to the presence of phase separated hydrocarbons (PSH). According to Appendix A (Copies of May 2021 and November 2021 PSH Evaluation Field Notes), groundwater samples were collected from wells SVE-28, SVE-30, and RW-1; however, the field parameter readings were not measured due to a hydrocarbon odor. Resolve the discrepancy in Table 3-3 and provide a replacement table. In addition, it is not clear why hydrocarbon odor would prevent field personnel from measuring field parameters. Provide an explanation in a response letter.

Due to the presence of a strong hydrocarbon odor that was observed during the May and November 2021 sampling events, the field personnel suspected PSH was present in the wells and were concerned about damaging field instruments; therefore, did not take field parameters during the event. Sampling protocols were corrected, and field personnel will collect measurements for wells sampled in accordance with the sampling plan for future sampling events.

Comment 4

In Section 3.1 (Groundwater Monitoring Regulatory Criteria), page 4, the Respondent

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states, "if neither a NMWQCC standard nor a 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 2012 NMED Risk Assessment Guidance for Site Investigation and Remediation, or the EPA Region 6 Screening Levels for tap water." The most current update to the Risk Assessment Guidance for Site Investigations and Remediation (RAG) is November 2021. The most recent version must be used for all future ongoing investigations. Although it is not necessary to revise the Report, this provision must be incorporated into the 2022 report. No response required.

Comment noted.

Comment 5

In Section 3.2 (Groundwater Monitoring & Chemical Analytical Data Results), page 5, the Respondent states, "to date, the deeper San Andres Formation Aquifer has not been impacted by the release associated with the Former Surface Impoundments. Well locations are illustrated in Figure 3-1 and a summary of well construction information is provided in Table 3-6." According to Table 3-6 (Summary of Well Construction Detail), well MW-24D is the only well advanced to the San Andres Formation Aquifer. According to Figure 3-1 (Well Locations), well MW-24D is located northeastern corner of the site where groundwater contamination in the upper aquifer is absent. The location of well MW-24D may be too far from the plumes to evaluate potential vertical migration of dissolved contaminants from the upper aquifer to the deeper San Andres Formation Aquifer. Wells MW-23D and MW25D were also advanced to the San Andres Formation Aquifer and were located close to the area where the plumes in the upper aquifer were present; however, these wells were previously abandoned and not currently available to evaluate such possibility. Well MW-24D may not be appropriately located to monitor presence/absence of contamination in the San Andres Formation Aquifer. Propose to install an additional well screened within the San Andres Formation Aquifer to evaluate potential vertical migration of dissolved contaminants in the revised Report or explain why well MW-24D is appropriate to monitor potential vertical migration of dissolved phase contaminants in the San Andres Formation Aquifer in the response letter.

MW-23D and MW-25D were installed between 1997 and 1998 and advanced to the San Adres Formation Aquifer and were located close to the plume in the upper Aquifer, however, based on historical groundwater data, both MW-23D and MW-25D were plugged and abandoned in 2013. MW-24D was most recently sampled for BTEX during the November 2021 Semi-Annual Sampling event and laboratory results were less than reporting limits of 1 part per billion (ppb) for BTEX. MW-24D is located further away from the plume area than MW-23D and MW-25D and based on historical groundwater data in MW-23D, MW-24D and MW-25D, Transwestern does

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not believe the San Andres aquifer has been impacted and does not recommend installation of additional wells in the deep aquifer. A table with historical data collected for MW-24D is provided as an attachment to this response letter. (Earthcon, 2013. Amended Investigation Work Plan and Groundwater Monitoring Plan Roswell Compressor Station No. 9).

Comment 6

In Section 3.3 (PSH Thickness}, page 6, and Section 3.3.2 (Upper Aquifer}, page 7, the Respondent states, "due to recovery efforts, PSH thickness has decreased in certain wells despite fluctuations in the water table. PSH thickness has decreased or has not been measurable for multiple consecutive years in MW-2, MW-12, MPE-20, MPE-21, MPE-23, MPE- 24, MPE-28, and MPE-31 and there has been an overall decreasing trend in PSH thickness in the Upper Aquifer." The statement is not supported by the data presented in the Report and may not be representative of overall site conditions. According to Table 3-2 (Summary of Groundwater Surface Elevations), PSH thickness in well MPE-20 increased from 0.03 to 1.48 feet between May and November 2021. A notable PSH thickness increase between May and November 2021 is similarly observed in wells MPE-12 (Oto 1.06 feet), MPE-14 (0.30 to 2.46 feet}, and MPE-32 (0.11 to 1.00 feet). The PSH column thickness does not exhibit either decreasing or stable trends; rather it is fluctuating and persistent in multiple wells. Remove the statement, as appropriate, or provide additional data to support the assertion. Provide replacement pages for all applicable sections of the revised Report accordingly.

Comment noted. Report text revised.

Comment 7

In Section 3.4.1 (Perched Aquifer), page 8, the Respondent states, "analytical data indicates that 1,4-dioxane was not detected in SVE-28 or RW-1. It should be noted that the laboratory detection limit [for 1,4-dioxane] was above the GCL for the May 2021 results. The laboratory was contacted about the detection limit and was lowered for the November 2021 results." NMED acknowledges that the analytical issue associated with 1,4-dioxane was corrected in the November 2021 results. However, the naphthalene concentration in the groundwater sample collected from SVE-31 during the November 2021 sampling event is recorded as <2.0 µg/L according to Table 3-5a (Summary of Groundwater Analytical Results - Other Constituents Detected}. The Groundwater Cleanup Level (GCL) for naphthalene is recorded as 1.43 µg/L and the reporting limit (<2.0 µg/L) exceeds the GCL (1.43 µg/L). Similarly, according to Table 3-5 (Summary of Groundwater Analytical Results}, the reporting limits of vinyl chloride in the groundwater samples collected from wells SVE-30 and RW-1 (<5.0 µg/L} exceeded the GCL (1 µg/L) in 2021. Furthermore, the laboratory reports included in Appendix B indicate that other constituents (e.g., 1,2,3-

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trichloropropane} in multiple groundwater samples exceeded the screening levels listed in the 2021 NMED RAG. Therefore, it is not known whether these constituent concentrations exceeded the applicable screening levels in 2021. As specified in Section VII.D of the 2013 Stipulated Final Order, the reporting limits for analytes must be lower than the applicable screening levels; otherwise, address the concentrations of all analytes where the reporting limits are higher than the corresponding GCLs as data quality exceptions and identify them as such in all related text, tables, and figures. Revise the appropriate sections in the revised Report and provide replacement pages.

Detection limits for Naphthalene and 1,4-Dioxane were lowered for the 2022 groundwater sampling events. Transwestern switched laboratory to ALS, that has detection limits that are below the GCL values. In future reports, the detection limits will be lowered to the applicable GCL or an explanation will be provided in the annual report of why certain detection limits were not achieved.

In addition, although 1,4-dioxane was detected below the GCL in the groundwater sample collected from well SVE-30 during the November 2021 sampling event, the detection was not discussed. Since the Respondent discusses non-detection of 1,4-dioxane for other wells, it would be misleading to omit discussion regarding the detection of 1,4-dioxane. Include a discussion regarding the detection of 1,4-dioxane in the groundwater sample collected from well SVE-30 in the revised Report and provide replacement pages.

Comment noted. Report text revised.

Comments 8

In Section 4.0 (Remediation System Operation, Maintenance, and Monitoring), page 10, the Respondent states, "based on the results, a pulsing sequence of one hour per day operation appears appropriate for MPE-16 to efficiently recover PSH. The pulsing evaluation was planned to continue on MPE-32, MPE-38, MPE-40, and MPE-41; however, due to semi-sampling event, air compressor repairs, and personnel field schedules, continuation of the pulse pump evaluation was delayed and is anticipated to be restarted in early Spring 2022." NMED acknowledges that the proposed pulse pumping operation must be further evaluated in 2022. It took less than one hour of pumping to remove apparent PSH from well MPE-16; however, note that the duration required to clear discharge water from other MPE wells may take longer and must be adjusted; a sufficient pumping duration specific to each well must be applied. In addition, evaluate the effectiveness of pulse pumping operation for wells MPE-10, MPE-12, MPE-14, and MPE-20 where PSH was detected in 2021 as well as proposed wells MPE-16, MPE- 32, MPE-38, MPE-40, and MPE-41. Present the results of the evaluation and provide a recommendation regarding pulse pumping operation in the 2022 report. No response required.

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Comment noted.

Comment 9

In Section 4.0 (Remediation System Operation, Maintenance, and Monitoring), page 11, the Respondent states, "based on historical documents, sulfate and chloride appears to naturally exist in the subsurface at the site, however a discussion with the NMOCD has been scheduled for March 31, 2022, and details of the discussion will be forthcoming in a memorandum." The referenced memorandum that summarizes the OCD directives regarding the issue associated with sulfate and chloride must be submitted to NMED no later than June 17, 2022.

Transwestern submitted this *Response to Comment 4 Chloride and Sulfate Communication Summary* to Mr. Rick Shean at the New Mexico Environment Department on May 6, 2022.

Comment 10

In Section 4.2 (Groundwater Treatment System Monitoring Results), page 12, the Respondent states, "operation records for the irrigation system presented in Table 4-2 indicate that the volume of groundwater recovered, treated, and discharged in 2021 was approximately 129,200 gallons." According to Table 4.2 (Summary of Treated Water Irrigation Rates), the total volume of irrigated water in 2021 is recorded as 144,900 gallons. Section 5.0 (Summary of Findings and Conclusions), page 14, bullet 4, also states that the groundwater/PSH recovery system recovered, treated, and discharged 144,900 gallons of groundwater in 2021. Resolve the discrepancy in the revised Report and provide replacement pages.

Comment noted. Report text revised.

Comment 11

The laboratory reports included in Appendix B indicate that some volatile organic compounds (VOCs) are not listed as analytes. For example, 1,2-dichloroethane (EDC) is not included as an analyte under EPA Method 8260B. Explain whether the selected contaminants of concern (COCs) were previously approved by NMED in the response letter or include the current selection of COCs in the Operation, Maintenance, and Monitoring (OM&M) Plan update to be approved by NMED.

VOC analytes reported in the laboratory reports will be presented in the 2022 annual report. As referenced in the 2022 Operation, Maintenance, and Monitoring Plan, samples collected during

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the 2nd Semiannual Sampling event will be analyzed for the full suite of VOCs by EPA Method 8260B during even years (2022, 2024, etc.) to validate the continued dissolved phase plume stability. Each analyte will be evaluated based on the applicable GCL and a list of COC's will be provided in the 2023 OM&M Plan.

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 Steve Diamond of WSP USA, Inc. at (770) 973-2100.

Sincerely,

SBoultinghouse

Ms. Stacy Boultinghouse, PG
Environmental Manager
Transwestern Pipeline Company, LLC Stacy.Boultinghouse@energytransfer.com

Attachment:
Attachment 1: Table 1: Summary of Groundwater Analytical Results for MW-24D
Attachment 2: Redline of Replacement Pages
Attachment 3: Final Replacement Report Text and Table 3-3

Cc: D. Cobrain, NMED HWB
M. Suzuki, NMED HWB
M. Bratcher, NMOCD
B. Billings, NMOCD
L. King, USEPA Region 6
JD Haines, WSP
S. Diamond, WSP

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ATTACHMENT 1

Table 1: Summary of Groundwater Analytical Results for MW-24D

Table 1. Summary of Groundwater Analytical Results for MW-24D
Transwestern Compressor Station No. 9 - Roswell, NM

Location	Date Sampled	Benzene	Ethyl Benzene	Toluene	Total Xylenes
NMWQCC Human Health Standard		5	700	1000	620
USEPA MCL		5	700	1000	10,000
Tap Water Cancer (2022)		4.55	15	-	-
Tap Water Non-Cancer (2022)		33.20	800	1090	-
Groundwater Cleanup Level (GCL)		5	700	1000	620
MW-24D	10/29/1998	<5	<5	<5	<5
	12/23/1998	<1	<1	<1	<1
	3/30/1999	<1	<1	<1	<1
	5/2/2000	<1	<1	<1	<1
	4/19/2001	<1	<1	<1	<1
	6/20/2001	<1	<5	<5	<10
	6/12/2002	<1	<1	<1	<1
	8/2/2003	<1	<1	<1	<1
	9/9/2004	<1	<1	<1	<1
	10/16/2005	<1	<1	<1	<1
	9/22/2006	<1	<1	<1	<3
	9/27/2007	<1	<1	<1	<3
	9/10/2008	<1	<1	<1	<3
	10/7/2009	<1	<1	<1	<3
	9/26/2010	<1	<1	<1	<3
	1/3/2012	<1	<1	<1	<2
	10/21/2012	<1	1	2.1	3.5
	12/14/2012	**9.6**	4.9	17	14
	1/21/2013	<1	3.3	<1	6
	4/16/2013	<1	<1	<1	<2
	11/18/2013	<1	<1	<1	<2
	11/26/2014	<1	<1	<1	<3
	11/6/2015	<1	<1	<1	<3
	11/17/2016	<1	<1	<1	<1.5
	11/16/2017	<1	<1	<1	<2
	11/12/2018	<1	<1	<1	<1.5
	1/7/2020	<1	<1	<1	<1.5
	11/30/2020	<1	<1	<1	<1.5
	11/22/2021	<1	<1	<1	<1.5

Notes:

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.

Only constituents detected in one or more groundwater samples are shown in this table

All results reported above the applicable standard are shown in bold type

Historical data before 2009 is presented in previous reports

Results reported in micrograms per liter (µg/L)

NMWQCC - New Mexico Water Quality Control Commission

NMWQCC Human Health Standards - from New Mexico Administrative Code (NMAC) 20.6.2, Part A, Human Health Standards. Used as GCL for target cleanup if lower than the MCL.

USEPA MCL - United States Environmental Protection Agency's Maximum Concentration Limit. Used as GCL for target cleanup if lower than the NMWQCC Human Health Standard.

Tap Water (2012) - From Table A-1 for the 2012 NMED Risk Assessment Guidance for Site Investigation and Remediation. Used as GCL for target cleanup if WQCC standard nor MCL has been established.

ATTACHMENT 2

Redline of Replacement Pages

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EXECUTIVE SUMMARY

This *Report of 2021 Groundwater Remediation Activities* was prepared by WSP, Inc. (formerly EarthCon Consultants, Inc.) 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. The purpose of the SFO, as stated in *Section III.A*, are 1) to ensure the continuance of ongoing remediation of contaminated soils and groundwater in the vicinity of the former surface impoundments to levels protective of human health or the environment in order to complete clean closure of the interim status units; and 2) to prevent or mitigate the migration of hazardous constituents at or from the Facility. As per *Section III.O* of the SFO, investigations, remediation, and other work that has been satisfactorily completed prior to the effective date of this Order, and that fulfills the substantive requirements of this Order, may be used to comply with this Order. Based on past investigations and the implementation of the corrective action plan, the groundwater treatment system continues to effectively control the migration of the PSH plume and continues to recover PSH and dissolved-phase hydrocarbons. Transwestern has fully complied with SFO objectives and has taken numerous actions so that soils and groundwater at the former surface impoundments will not adversely impact human health or the environment. 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 were 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 12 SVE-only wells and 35 MPE wells. A combination of monitoring, SVE, and RW wells are

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used for monitoring groundwater conditions in the Perched Aquifer, Upper Aquifer and the deeper San Andres Formation Aquifer within the Project Area. Twenty-nine wells are installed in the Upper Aquifer, and one well is installed in the deeper San Andres Formation Aquifer (MW-24D). Eleven of the 12 SVE wells and one recovery well (RW-1) intersect the perched aquifer zone that exists within the Upper Aquifer.

During 2021, the SVE portion of the recovery system was operational for the year. However, in August 2021, the East Baker unit showed signs of severe material deterioration and was deemed unsafe and unrepairable for operation. The West Baker Unit continued operation. The East Baker Unit is planned to be replaced with a new system in 2022 once permit approvals have been received. During this time, the SVE system operated full-time except for periods of maintenance and during the semi-annual sampling events. The groundwater portion of the system operated from April through October in 2021. The groundwater portion of the system was manually deactivated in January, February, March, November, and December of 2021 due to freezing temperatures: however, additional cold weather protection, such as heat tape and pipe insulation, have been installed throughout the process in January 2022 to improve operational times during the winter season.

The remediation system recovered approximately 1,980 pounds of vapor-phase hydrocarbons (or approximately 312 equivalent gallons) in 2021 during SVE system operation. The groundwater/PSH recovery system treated and discharged approximately 129,200 gallons of groundwater, removed approximately 5.64 pounds (approximately 0.89 equivalent gallons) of dissolved-phase hydrocarbons and recovered approximately 342 gallons (2,166 pounds) of PSH. A total of approximately 4,152 pounds of hydrocarbons were removed by the system in 2021. This compares to a total of approximately 8,876 pounds of hydrocarbons removed in 2020 (2,918 pounds of vapor-phase hydrocarbons, 940 gallons (5,950 pounds) of PSH, and 8.07 pounds of dissolved phase hydrocarbons). Removal rates for the last seven years of operation are included below in **ES.1**. and **ES.2** as a comparison.

ES.1 - Historical Hydrocarbon Removal Summary

Year	Extracted Groundwater (gals)	PSH Recovered (lbs)	Dissolved-Phase Mass Removed (lbs)	Vapor-Phase Mass Removal (lbs)
2015	64,140	1,962	2.94	2,405
2016	137,650	2,216	5.35	2,026

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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 0.017 ft/ft during the May 2021 sampling event and 0.018 ft/ft during the November 2021 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 0.003 ft/ft during the May 2021 sampling event and 0.003 ft/ft during the November 2021 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 0.72 foot between October 2009 and November 2021.

3.2.3 Deeper San Andres Formation Aquifer

The groundwater elevation in MW-24D, installed in the deeper regional San Andres Formation Aquifer, decreased by 2.47 feet between 2009 and 2021.

3.3 PSH Thickness

Groundwater gauging data collected from site monitoring and recovery wells during the May 2021 sampling event indicates that the average PSH thickness was 0.91 feet, with a maximum of 1.65 feet measured in MW-16. Groundwater gauging data collected from Site monitoring and recovery wells during the November 2021 sampling event indicates that the average apparent PSH thickness was 1.03 feet, with the maximum thickness of 2.46 feet measured in MPE-14. As of 2021, fifteen wells (MW-1B, MW-16, MPE-10, MPE-12, MPE-14, MPE-16, MPE-20, MPE-28, MPE-31, MPE-32, MPE-38, MPE-40, MPE-41, SVE-22, and SVE-23) contain PSH. Correlation graphs have been developed between depth to water and PSH and are presented in **Appendix E**. ~~PSH thickness has decreased or has not been measurable for multiple consecutive years in MW-2, MW-12, MPE-20, MPE-21, MPE-23, MPE-24, MPE-28, and MPE-31.~~

3.3.1 Perched Aquifer

On May 7, 2021 and November 3, 2021, liquid levels were measured in shallow wells using an optical interface probe to determine the presence and apparent thickness of PSH. According to liquid levels, the apparent PSH thickness ranged between 0.65 feet and 1.47 feet in SVE-23 in May and November 2021, respectively. During 2021, PSH thicknesses were observed in SVE-

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22, SVE-23 and SVE-25 and appears to be positively correlated with depth to water. Based on monthly water and PSH levels collected in 2021 and presented in Table 3-2, the PSH thickness in SVE-23 appears to increase as groundwater levels decrease in the well.[2] Gauging was conducted every month in 2021 and the data is presented in **Table 3-2**.[3] Distribution of PSH apparent thickness is presented in **Figures 3-2a** and **3-2b**. Further PSH monitoring and recovery via bailing will continue in 2022 for SVE-23 and other SVE wells with PSH detections. In addition, a work plan will be developed to provide details for delineating the horizontal and vertical extent of the PSH plumes in the perch aquifer.[4]

Liquid levels and recovery data collected from bailing activities and delineation data will be evaluated to determine if a more aggressive recovery method is warranted. Although, it should be noted that the current recovery well network for the groundwater extraction and soil vapor extraction is within the footprint of the perched aquifer.

3.3.2 Upper Aquifer

The areal extent of PSH in the Upper Aquifer, as measured during the May and November 2021 semi-annual sampling events, remains delineated within the Project Area and appears consistent with 2020 data. (**Figures 3-5a** and **3-5b**). Due to recovery efforts, PSH thicknesses have decreased or have remained absent in certain wells (MW-12, MW-27, MPE-13, MPE-17, MPE-21, MPE-23, MPE-24, MPE-26, MPE-27, and MPE-28) despite fluctuations in the water table. However, PSH thicknesses have remained persistent in MW-1B, MW-16, MPE-10, MPE-12, MPE-14, MPE-16, MPE-20, MPE-32, MPE-38, MPE-40, and MPE-41. Current and historical groundwater gauging data is presented in **Table 3-2**.

3.3.3 Deeper San Andres Formation Aquifer

PSH has not been observed in the deep aquifer.

[2] In response to Comment 1 in NMED correspondence (HWB-TWP-21-002) dated January 12, 2022.
[3] In response to Comment 3 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.
[4] In response to Comment 2 in NMED correspondence (HWB-TWP-21-003) dated March 1, 2022.

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3.4 Groundwater Analytical Results

Groundwater samples were collected and analyzed for BTEX by EPA method 8260 or for VOCs via EPA Method 8260B, and 1,4-dioxane was analyzed by EPA method 8270SIM in accordance with the SAP. The analytical results for groundwater samples collected during the May and November 2021 sampling events are summarized in **Table 3-5** and **Table 3-5a** and the laboratory analytical reports are included in **Appendix B**. Due to that the well was dry, no sample was collected from SVE-31 in May 2021. Due to PSH detections, a groundwater sample was not collected from MW-16 in May or November 2021.

3.4.1 Perched Aquifer

In the Perched Aquifer, BTEX was detected above reporting limits in wells SVE-28, SVE-30, and RW-1. However, benzene was the only BTEX constituent in these wells that exceeded GCLs. Analytical data indicates that 1,4-dioxane was not detected in SVE-28 or RW-1.1,4-dioxane was detected below the GCL in the groundwater sample collected from well SVE-30 during the November 2021 sampling event. It should be noted that the laboratory detection limit was above the GCL for the May 2021 results. The laboratory was contacted about the detection limit and was lowered for the November 2021 results. Analytical data indicates that 1,1-DCA was detected in concentrations exceeding the GCLs in well SVE-30 during the May and November 2021 sampling events. (**Figures 3-6** through **3-11**).

3.4.2 Upper Aquifer

In the Upper Aquifer, BTEX and 1,4-dioxane concentrations were not detected above laboratory reporting limits in any of the upper aquifer monitoring wells identified in the approved SAP with the exception of MW-16 (PSH detection). Therefore, BTEX and 1,4-dioxane concentrations did not exceed the GCL in the Upper Aquifer.

Analytical data indicates that other VOCs were detected in MW-20, MW-22, MW-26, MW-39, MW-41, and MW-42, but only 1,1-DCE was detected at concentrations that exceed the GCL in wells MW-26 and MW-39 in May and November 2021. Based on the 2021 analytical data, the areal distribution of BTEX, 1,1-DCA, and 1,1-DCE in the Upper Aquifer remains delineated within the Project Area and is consistent with the 2020 data. (**Figures 3-6** through **3-13**).

Analytical results for the duplicates are included in the laboratory data packages in **Appendix B** and indicate that the only target analyte detections were for MW-39, MW-22, and MW-26. For

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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 30% for each sampling event, with the calculations included in **Appendix B**.

3.4.3 Deeper San Andres Formation Aquifer

In the deep aquifer, BTEX concentrations were not detected above the laboratory reporting limits based on analytical data from the groundwater sample collected from MW-24D. Since 2013, BTEX concentrations have been below laboratory reporting limits for groundwater samples collected from MW-24D.

4.0 REMEDIATION SYSTEM OPERATION, MAINTENANCE, AND MONITORING

During 2021, the SVE portion of the recovery system was operational except for when the SVE system was deactivated for equipment maintenance/repairs and semi-annual sampling events. In addition, the East Baker unit showed signs of severe material deterioration and was deemed unsafe and unrepairable for operation, therefore, the unit was deactivated in August 2021. The West Baker Unit continued operation. The East Baker Unit is planned to be replaced with a new system in 2022 once air permit approvals have been received.

The groundwater/PSH recovery portion of the remediation system operated from April 1, 2021 to November 7, 2021, except for periods of maintenance and during the semi-annual sampling events. In November 2021, the air compressor malfunctioned, and replacement parts were delayed and repairs were completed on December 29, 2021. Specifically, the groundwater/PSH recovery portion of the remediation system was deactivated in January, February, March, and 2021 due to freezing temperatures, see **Table 4-7** for a weather log documenting the temperatures at the site. Starting in December 2021, Transwestern insulated pipes, manifolds, and water lines on the carbon vessels, irrigation tanks, and the water treatment system. Heat tape was also added around the air stripper blower, discharge pumps, and power supply equipment.[5] **Appendix F** shows site photographs of the winterization activities. Additional weather protection will be added as needed to minimize downtime during winter months. However, during extreme

[5] In response to Comment 3 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.

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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 mS/cm
MW-10	5/11/21	10:00	1.00	19.39	7.10	4.89	163.0	3.751
	11/14/21	15:03	1.25	19.62	7.30	0.86	24.5	3.718
MW-11	5/11/21	9:35	1.50	19.25	7.19	6.19	153.2	3.863
	11/14/21	10:36	2.00	18.95	7.48	2.70	-3.8	3.9
MW-13	11/14/21	16:30	3.00	20.88	7.45	0.68	-36.8	3.872
MW-14	11/14/21	9:55	4.50	18.83	7.21	1.39	-39.4	3.825
MW-16	5/11/21	**Not Sampled due to PSH in Well**						
	11/13/21	**Not Sampled due to PSH in Well**						
MW-17	5/11/21	16:17	3.25	19.36	7.26	5.58	-8.0	4.098
	11/13/21	11:22	2.00	18.61	7.55	5.2	-21.9	4.109
MW-20	5/11/21	10:47	5.00	18.77	7.28	7.70	70.4	3.822
	11/22/21	15:07	5.50	18.45	7.30	6.71	34.5	3.896
MW-21	5/11/21	15:58	4.00	20.29	7.03	4.54	-103.4	3.164
	11/12/21	14:00	3.75	18.55	7.16	1.77	-99.7	3.163
MW-22	5/11/21	10:07	3.00	18.80	7.32	7.09	21.7	3.771
	11/22/21	14:40	3.50	19.35	7.41	3.16	-15.2	3.842
MW-24D	11/22/21	16:50	50.0	18.12	7.41	3.15	-192.7	3.619
MW-26	5/11/21	11:10	6.00	18.67	6.96	6.32	93.4	3.816
	11/22/21	15:56	7.25	17.85	7.29	6.25	39.2	3.861
MW-27	5/11/21	15:17	3.00	20.04	6.96	2.7	-276	3.867
	11/12/21	12:23	2.50	18.33	7.04	2.34	-181.1	3.971
MW-29	5/11/21	14:47	1.75	19.63	7.13	2.65	-112.7	3.596
	11/11/21	10:42	1.75	18.25	7.32	4.03	-91.2	3.611
MW-32	11/11/21	9:04	1.75	18.30	7.42	4.58	-105.5	3.641
MW-34	5/11/21	14:17	5.00	20.28	7.13	2.12	5.2	3.533
	11/11/21	12:25	5.00	19.30	7.33	1.47	-13.5	3.596
MW-35	11/11/21	13:47	7.00	19.18	7.48	7.34	60.8	4.06
MW-37	11/10/21	13:05	4.50	19.27	7.22	1.8	45.2	3.885
MW-39	5/11/21	15:45	9.50	18.98	7.06	6.97	95.6	3.789
	11/23/21	12:52	10.00	18.87	7.24	3.10	30.8	3.841
MW-40	5/11/21	14:53	7.50	18.98	7.02	5.14	71.1	3.799
	11/23/21	11:24	7.50	18.41	7.40	3.24	11.6	3.371
MW-41	5/11/21	15:21	6.0	19.42	7.09	7.11	85.2	3.717
	11/23/21	12:10	6.00	19.38	7.26	3.27	23.5	3.357
MW-42	5/11/21	11:58	9.50	18.74	7.04	4.82	92.6	3.814
	11/23/21	10:36	10.0	18.75	7.25	2.23	-0.3	3.868
SVE-28	5/11/21	11:20	**Parameters not collected due to PSH odor[1]**					
	11/15/21	12:38	3.00	19.87	7.09	2.93	-97.6	3.413
SVE-30	5/11/21	10:50	**Parameters not collected due to PSH odor[1]**					
	11/14/21	11:20	**Insufficient water in well to collect parameters**					
SVE-31	5/11/21	**DRY**						
	11/15/21	13:31	1.25	19.70	7.14	2.33	-9.9	4.468
RW-1	5/11/21	13:15	**Parameters not collected due to PSH odor[1]**					
	11/15/21	11:32	32.00	21.06	7.11	2.89	-156.0	3.28

Notes
mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
NS - Not Analyzed
Note: Field parameters are only shown for wells sampled

°C - Degrees Celsius

Prepared by: SWS 12/7/21
Checked by: AP 6/14/2022

[1] - Parameters not collected due to PSH odor causing concerns with damaging field equipment.

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ATTACHMENT 3

Final Replacement Report Text (Full Copy) and Table 3-3

REPORT OF 2021 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:

WSP USA, INC.
1880 WEST OAK PARKWAY, SUITE 106
MARIETTA, GA 30062

March 2022
(Revised October 2022)

Report of 2021 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

March 2022

WSP USA, Inc. (formally EarthCon Consultants, Inc.) is submitting to Transwestern Pipeline Company, LLC (Transwestern) this *Report of 2021 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 WSP USA.

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 WSP USA is at the sole risk of those parties. This report was prepared by or performed under the direction of the WSP USA Professionals listed below and approved by Transwestern.

Signed:

Sofie Weber-Snapp
Lead Consultant
WSP USA, Inc.

Steve Diamond, PE (AL, GA, LA, MO, SC, MI)
Senior Engineer
WSP USA, Inc.

J.D. Haines, LPG (IN)
Principal Geologist
WSP USA, Inc.

Date: March 30, 2022

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Report of 2021 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

March 2022
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.

3/30/2022

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

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EXECUTIVE SUMMARY

This *Report of 2021 Groundwater Remediation Activities* was prepared by WSP, Inc. (formerly EarthCon Consultants, Inc.) 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. The purpose of the SFO, as stated in *Section III.A*, are 1) to ensure the continuance of ongoing remediation of contaminated soils and groundwater in the vicinity of the former surface impoundments to levels protective of human health or the environment in order to complete clean closure of the interim status units; and 2) to prevent or mitigate the migration of hazardous constituents at or from the Facility. As per *Section III.O* of the SFO, investigations, remediation, and other work that has been satisfactorily completed prior to the effective date of this Order, and that fulfills the substantive requirements of this Order, may be used to comply with this Order. Based on past investigations and the implementation of the corrective action plan, the groundwater treatment system continues to effectively control the migration of the PSH plume and continues to recover PSH and dissolved-phase hydrocarbons. Transwestern has fully complied with SFO objectives and has taken numerous actions so that soils and groundwater at the former surface impoundments will not adversely impact human health or the environment. 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 were 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 12 SVE-only wells and 35 MPE wells. A combination of monitoring, SVE, and RW wells are

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used for monitoring groundwater conditions in the Perched Aquifer, Upper Aquifer and the deeper San Andres Formation Aquifer within the Project Area. Twenty-nine wells are installed in the Upper Aquifer, and one well is installed in the deeper San Andres Formation Aquifer (MW-24D). Eleven of the 12 SVE wells and one recovery well (RW-1) intersect the perched aquifer zone that exists within the Upper Aquifer.

During 2021, the SVE portion of the recovery system was operational for the year. However, in August 2021, the East Baker unit showed signs of severe material deterioration and was deemed unsafe and unrepairable for operation. The West Baker Unit continued operation. The East Baker Unit is planned to be replaced with a new system in 2022 once permit approvals have been received. During this time, the SVE system operated full-time except for periods of maintenance and during the semi-annual sampling events. The groundwater portion of the system operated from April through October in 2021. The groundwater portion of the system was manually deactivated in January, February, March, November, and December of 2021 due to freezing temperatures: however, additional cold weather protection, such as heat tape and pipe insulation, have been installed throughout the process in January 2022 to improve operational times during the winter season.

The remediation system recovered approximately 1,980 pounds of vapor-phase hydrocarbons (or approximately 312 equivalent gallons) in 2021 during SVE system operation. The groundwater/PSH recovery system treated and discharged approximately 129,200 gallons of groundwater, removed approximately 5.64 pounds (approximately 0.89 equivalent gallons) of dissolved-phase hydrocarbons and recovered approximately 342 gallons (2,166 pounds) of PSH. A total of approximately 4,152 pounds of hydrocarbons were removed by the system in 2021. This compares to a total of approximately 8,876 pounds of hydrocarbons removed in 2020 (2,918 pounds of vapor-phase hydrocarbons, 940 gallons (5,950 pounds) of PSH, and 8.07 pounds of dissolved phase hydrocarbons). Removal rates for the last seven years of operation are included below in **ES.1**. and **ES.2** as a comparison.

ES.1 - Historical Hydrocarbon Removal Summary

Year	Extracted Groundwater (gals)	PSH Recovered (lbs)	Dissolved-Phase Mass Removed (lbs)	Vapor-Phase Mass Removal (lbs)
2015	64,140	1,962	2.94	2,405
2016	137,650	2,216	5.35	2,026

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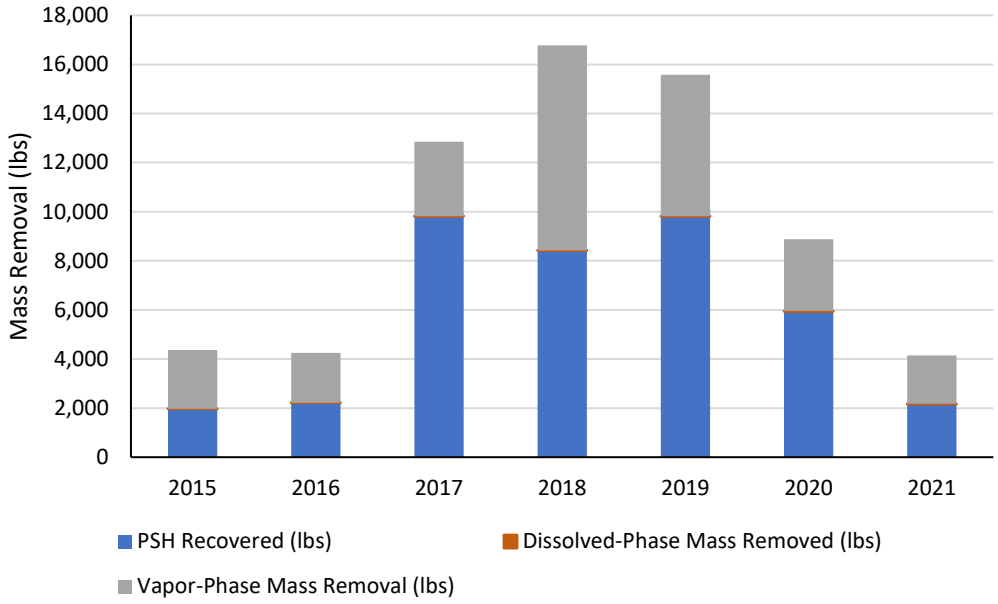
2017	90,550	9,812	8.60	3,038
2018	41,420	8,419	3.12	8,356
2019	24,080	9,812	2.58	5,760
2020	97,400	5,950	8.07	2,918
2021	129,200	2,166	5.64	1,980

ES.2 - Historical Hydrocarbon Removal Summary



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 May 2021 and November 2021 to assess groundwater conditions.

Consistent with historical data, the May and November 2021 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 2021 semi-annual groundwater sampling events, PSH was present in groundwater monitoring wells, SVE wells, and MPE wells located in the vicinity of the former surface impoundments. Dissolved benzene, 1,1-DCE and 1,1-DCA were detected in groundwater at

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concentrations exceeding the applicable cleanup levels during the sampling events. It appears the benzene exceeding the GCLs is closely associated with observable PSH. Samples from MW-20, MW-22, MW-26, MW-39, MW-40, MW-41, MW-42, SVE-28, SVE-30, and RW-1 were also analyzed for 1,4-dioxane, but this constituent was only detected at SVE-30, at concentrations below the applicable cleanup levels. 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 2021, Transwestern recommends continued operation of the remediation system in 2022 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.

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APPENDICES

Appendix A Copies of the May and November 2021 Field Notes
Appendix B Analytical Data Packages – Semi-annual Groundwater Sampling (Electronic File)[1]
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Appendix D Historical SVE System Tables for Gasoline Range Organics
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[1] In response to Comment 7 in NMED correspondence (HWB-TWP-21-001) dated July 15, 2021.

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1.0 INTRODUCTION

This *Report of 2021 Groundwater Remediation Activities* was prepared by WSP USA, Inc. (former EarthCon Consultants, Inc.) 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 referred to as

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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 were 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 to a permitted off-site disposal 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. For the 2021 reporting year, the SVE system operated year-round and the groundwater/PSH recovery occurred from April to November. 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 2021. 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 2021 include the following and are summarized below:

- Semi-annual groundwater monitoring;
- Remediation system operation, maintenance, and monitoring;

3.0 SEMI-ANNUAL GROUNDWATER MONITORING

Semi-annual groundwater sampling to assess groundwater conditions was conducted in May 2021 and November 2021 by CMB in general accordance with the SFO. The groundwater monitoring network at the Site consists of 30 monitoring wells, of which 25 are included within the monitoring plan and the remaining wells are used for gauging. Groundwater samples were attempted to be collected from 19 of these monitoring wells during the May 2021 sampling event and from 25 of these monitoring wells during the November 2021 sampling event, in general accordance with the approved *Sampling and Analysis Plan* (SAP) presented in **Table 3-1**.

Prior to commencing semi-annual groundwater gauging and sampling, the remediation system (groundwater extraction and soil vapor extraction) 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, in accordance with 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;

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- pH varies by no more than 0.2 pH units;
- specific conductance readings are within 10% of the average.

Field parameters recorded from the May 2021, and November 2021 sampling events are presented in **Table 3-3**. Historical field parameters prior to the 2021 sampling events are included in **Table 3-4**. During the May and November 2021 sampling events, stabilization criteria was met for all wells. As per EPA Region 4 SESD Operating Procedure, an adequate purge is normally achieved when three to five well volumes have been purged. At least three purge volumes (and up to a total of five well volumes) were used if necessary to achieve parameter stability.

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, for Volatile Organic Compounds (VOCs) via EPA Method 8260B, and for 1,4-Dioxane via EPA Method 8270C SIM in 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 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 identified as described in the following paragraphs.

The target constituents-of-concern (COCs) required to be sampled per the approved 2021 SAP 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 Human Health Standard (HHS) described in NMAC 20.6.2, as well as the EPA MCLs for drinking water contaminants. If both a NMWQCC standard and a MCL have been established for an individual substance, then the lower of the two levels is used as the GCL for that COC. If neither a NMWQCC standard nor a MCL has been established for a COC, then the cleanup level is identified as the

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screening level for tap water in Table A-1 of the 2012 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. 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 May and November 2021 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.

3.2.1 Perched Aquifer

Based on current data and historical information dating back to 1991, a perched aquifer appears to intersect wells SVE-23, SVE-25, SVE-27, SVE-28, SVE-31, and RW-1. In addition to the information presented in this report, a work plan will be developed to provide details for delineating the horizontal and vertical extent of the dissolved-phase hydrocarbon and PSH plumes per March 1, 2022, NMED correspondence. The potentiometric surface maps for the Perched Aquifer are presented in **Figures 3-2a** and **3-2b.**

3.2.2 Upper Aquifer

The potentiometric surface maps for the Upper Aquifer, presented in **Figures 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.

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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 0.017 ft/ft during the May 2021 sampling event and 0.018 ft/ft during the November 2021 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 0.003 ft/ft during the May 2021 sampling event and 0.003 ft/ft during the November 2021 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 0.72 foot between October 2009 and November 2021.

3.2.3 Deeper San Andres Formation Aquifer

The groundwater elevation in MW-24D, installed in the deeper regional San Andres Formation Aquifer, decreased by 2.47 feet between 2009 and 2021.

3.3 PSH Thickness

Groundwater gauging data collected from site monitoring and recovery wells during the May 2021 sampling event indicates that the average PSH thickness was 0.91 feet, with a maximum of 1.65 feet measured in MW-16. Groundwater gauging data collected from Site monitoring and recovery wells during the November 2021 sampling event indicates that the average apparent PSH thickness was 1.03 feet, with the maximum thickness of 2.46 feet measured in MPE-14. As of 2021, fifteen wells (MW-1B, MW-16, MPE-10, MPE-12, MPE-14, MPE-16, MPE-20, MPE-28, MPE-31, MPE-32, MPE-38, MPE-40, MPE-41, SVE-22, and SVE-23) contain PSH. Correlation graphs have been developed between depth to water and PSH and are presented in **Appendix E**.

3.3.1 Perched Aquifer

On May 7, 2021 and November 3, 2021, liquid levels were measured in shallow wells using an optical interface probe to determine the presence and apparent thickness of PSH. According to liquid levels, the apparent PSH thickness ranged between 0.65 feet and 1.47 feet in SVE-23 in May and November 2021, respectively. During 2021, PSH thicknesses were observed in SVE-22, SVE-23 and SVE-25 and appears to be positively correlated with depth to water. Based on

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monthly water and PSH levels collected in 2021 and presented in Table 3-2, the PSH thickness in SVE-23 appears to increase as groundwater levels decrease in the well.[2] Gauging was conducted every month in 2021 and the data is presented in **Table 3-2**.[3] Distribution of PSH apparent thickness is presented in **Figures 3-2a** and **3-2b**. Further PSH monitoring and recovery via bailing will continue in 2022 for SVE-23 and other SVE wells with PSH detections. In addition, a work plan will be developed to provide details for delineating the horizontal and vertical extent of the PSH plumes in the perch aquifer.[4]

Liquid levels and recovery data collected from bailing activities and delineation data will be evaluated to determine if a more aggressive recovery method is warranted. Although, it should be noted that the current recovery well network for the groundwater extraction and soil vapor extraction is within the footprint of the perched aquifer.

3.3.2 Upper Aquifer

The areal extent of PSH in the Upper Aquifer, as measured during the May and November 2021 semi-annual sampling events, remains delineated within the Project Area and appears consistent with 2020 data. (**Figures 3-5a** and **3-5b**). Due to recovery efforts, PSH thicknesses have decreased or have remained absent in certain wells (MW-12, MW-27, MPE-13, MPE-17, MPE-21, MPE-23, MPE-24, MPE-26, MPE-27, and MPE-28) despite fluctuations in the water table. However, PSH thicknesses have remained persistent in MW-1B, MW-16, MPE-10, MPE-12, MPE-14, MPE-16, MPE-20, MPE-32, MPE-38, MPE-40, and MPE-41. Current and historical groundwater gauging data is presented in **Table 3-2**.

3.3.3 Deeper San Andres Formation Aquifer

PSH has not been observed in the deep aquifer.

3.4 Groundwater Analytical Results

Groundwater samples were collected and analyzed for BTEX by EPA method 8260 or for VOCs via EPA Method 8260B, and 1,4-dioxane was analyzed by EPA method 8270SIM in accordance

[2] In response to Comment 1 in NMED correspondence (HWB-TWP-21-002) dated January 12, 2022.
[3] In response to Comment 3 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.
[4] In response to Comment 2 in NMED correspondence (HWB-TWP-21-003) dated March 1, 2022.

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with the SAP. The analytical results for groundwater samples collected during the May and November 2021 sampling events are summarized in **Table 3-5** and **Table 3-5a** and the laboratory analytical reports are included in **Appendix B**. Due to that the well was dry, no sample was collected from SVE-31 in May 2021. Due to PSH detections, a groundwater sample was not collected from MW-16 in May or November 2021.

3.4.1 Perched Aquifer

In the Perched Aquifer, BTEX was detected above reporting limits in wells SVE-28, SVE-30, and RW-1. However, benzene was the only BTEX constituent in these wells that exceeded GCLs. Analytical data indicates that 1,4-dioxane was not detected in SVE-28 or RW-1.1,4-dioxane was detected below the GCL in the groundwater sample collected from well SVE-30 during the November 2021 sampling event. It should be noted that the laboratory detection limit was above the GCL for the May 2021 results. The laboratory was contacted about the detection limit and was lowered for the November 2021 results. Analytical data indicates that 1,1-DCA was detected in concentrations exceeding the GCLs in well SVE-30 during the May and November 2021 sampling events. (**Figures 3-6** through **3-11**).

3.4.2 Upper Aquifer

In the Upper Aquifer, BTEX and 1,4-dioxane concentrations were not detected above laboratory reporting limits in any of the upper aquifer monitoring wells identified in the approved SAP with the exception of MW-16 (PSH detection). Therefore, BTEX and 1,4-dioxane concentrations did not exceed the GCL in the Upper Aquifer.

Analytical data indicates that other VOCs were detected in MW-20, MW-22, MW-26, MW-39, MW-41, and MW-42, but only 1,1-DCE was detected at concentrations that exceed the GCL in wells MW-26 and MW-39 in May and November 2021. Based on the 2021 analytical data, the areal distribution of BTEX, 1,1-DCA, and 1,1-DCE in the Upper Aquifer remains delineated within the Project Area and is consistent with the 2020 data. (**Figures 3-6** through **3-13**).

Analytical results for the duplicates are included in the laboratory data packages in **Appendix B** and indicate that the only target analyte detections were for MW-39, MW-22, and MW-26. 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

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event. The RPDs were at or below 30% for each sampling event, with the calculations included in **Appendix B**.

3.4.3 Deeper San Andres Formation Aquifer

In the deep aquifer, BTEX concentrations were not detected above the laboratory reporting limits based on analytical data from the groundwater sample collected from MW-24D. Since 2013, BTEX concentrations have been below laboratory reporting limits for groundwater samples collected from MW-24D.

4.0 REMEDIATION SYSTEM OPERATION, MAINTENANCE, AND MONITORING

During 2021, the SVE portion of the recovery system was operational except for when the SVE system was deactivated for equipment maintenance/repairs and semi-annual sampling events. In addition, the East Baker unit showed signs of severe material deterioration and was deemed unsafe and unrepairable for operation, therefore, the unit was deactivated in August 2021. The West Baker Unit continued operation. The East Baker Unit is planned to be replaced with a new system in 2022 once air permit approvals have been received.

The groundwater/PSH recovery portion of the remediation system operated from April 1, 2021 to November 7, 2021, except for periods of maintenance and during the semi-annual sampling events. In November 2021, the air compressor malfunctioned, and replacement parts were delayed and repairs were completed on December 29, 2021. Specifically, the groundwater/PSH recovery portion of the remediation system was deactivated in January, February, March, and 2021 due to freezing temperatures, see **Table 4-7** for a weather log documenting the temperatures at the site. Starting in December 2021, Transwestern insulated pipes, manifolds, and water lines on the carbon vessels, irrigation tanks, and the water treatment system. Heat tape was also added around the air stripper blower, discharge pumps, and power supply equipment.[5] **Appendix F** shows site photographs of the winterization activities. Additional weather protection will be added as needed to minimize downtime during winter months. However, during extreme freezing temperatures that exist over consecutive days in the winter months, the system will be deactivated. Constant days of severe freezing would increase the risk of failures and major

[5] In response to Comment 3 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.

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damage to equipment components, piping system, and spray field and possibly lead to uncontrolled discharges or safety hazards.

The groundwater/PSH recovery portion of the remediation system was deactivated 48 to 72 hours prior to the 2021 semi-annual sampling events (May 2021 and November 2021).

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 installing a new pump on the air stripper and transfer tank, replace high pressure oil line on the air compressor, replacing filters, decalcifying the air stripper, repairing damage frozen pipes, changing filter bags, cleaning the float switch, installing new pumps, installing new o-rings on the air compressor, fixing hose leaks, changing sock filters, routine preventative maintenance on the compressor, repairing the GAC water hose, and repairing the compressor pressure switch. In addition, well re-development was performed in April and May 2021 for wells MW1B, MW-16, MPE-10, MPE-12, MPE-14, MPE-16, MPE-17, MPE-20, MPE-23, MPE-27, MPE-32, MPE-35, MPE-38, MPE-39, and MPE-40. A jetting tool was lowered into the well at the bottom of the screen interval, and a jet stream was used in 360 degrees to clean the sand filter pack. A 3 foot by 3.5-inch diameter stainless steel bailer was used to bail the 4-inch diameter wells, and a 3 foot by 1.8-inch diameter stainless-steel bailer was used to bail the 2-inch wells. The bailed liquid and suspended biomass were transferred in a mobile tank and later transported and processed in the existing groundwater treatment system. The field notes for the well re-development is found in **Appendix G**.

On August 24, 2021, a pulse pumping evaluation was performed on MPE-16 to better understand the PSH rebound time and to improve the efficiency of PSH recovery.[6] The pump in MPE-16 was deactivated for one week prior to the evaluation to allow liquid levels to return to natural conditions. The thickness of PSH was measured to be approximately 1.47 feet in MPE-16. Afterwards, the pump was activated, and the discharge stream was visually monitored to determine the length of operation time required by the pump to remove 1.47 feet of PSH in MPE-16. According to the evaluation, after less than one hour of pumping, PSH was removed in MPE-16 and the discharge water was clear. The pump was deactivated to allow the PSH to rebound. On the following day,

[6] In response to Comment 7 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.

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August 25, 2021, PSH thickness was measured to be 0.27 foot and after eight days the PSH stabilized at 0.55 foot. After 41 days since deactivation (October 5, 2021), the PSH thickness was measured to be 0.02 foot, which appears to be correlated with an increase of groundwater level. Based on the results, a pulsing sequence of one hour per day operation appears appropriate for MPE-16 to efficiently recover PSH. The pulsing evaluation was planned to continue on MPE-32, MPE-38, MPE-40, and MPE-41; however, due to semi-sampling event, air compressor repairs, and personnel field schedules, continuation of the pulse pump evaluation was delayed and is anticipated to be restarted in early Spring 2022.

Maintenance activities on the SVE portion of the treatment system during this reporting period included repaired flex hose on the west baker unit, replacing the chart recorder paper periodically, installing a new thermocouple, fixing electrical issues, greasing bearings for the blowers, and miscellaneous minor repairs.

Monthly samples were collected from April through December 2021 (except for November 2021) 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. Discharge monitoring data is summarized in **Table 4-4.** 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. Monitoring data is summarized in **Table 4-5**.

On July 15, 2021, NMED issued an approval letter with modifications to the 2020 Report of Groundwater Remediation Activities of the Former Surface Impounds for the Transwestern Compressor Station No. 9. In the letter, Comment 12 addresses the chloride and sulfide concentrations in the post-treatment samples that consistently exceed the New Mexico Water Quality Control Commission (NMWQCC) standards of 250 and 600 mg/L, respectively. NMED requested that the respondent discuss the issue of the chloride and sulfate exceedances with the New Mexico Oil Conservation Division (OCD), and carbon copy (CC) NMED on the OCD notification regarding the issue. Based on historical documents, sulfate and chloride appears to naturally exist in the subsurface at the site, however a discussion with the NMOCD has been

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scheduled for March 31, 2022, and details of the discussion will be forthcoming in a memorandum.[7]

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 January 2021, March 2021, June 2021, August 2021, and December 2021. In December 2021 only west Baker Furnace samples were collected and analyzed. 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 between 14 and 82 inches of water. The two thermal oxidizers maintained an average chamber treatment temperature of 1,500ºF, which is above the required thermal destruction temperature of 1,400ºF.

In 2021, air samples of influent vapor were collected from the Baker Furnaces 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 1,980 pounds (or about 312 equivalent gallons) of vapor-phase TVOCs in 2021, compared to the approximately 2,918 pounds (or about 461 gallons) removed in 2020. 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 0.49 gallons per minute (gpm) in 2021. Operation records for the irrigation system presented in **Table 4-2** indicate that the volume of groundwater recovered, treated, and discharged in 2021 was approximately 144,900 gallons.

According to **Table 4-3**, approximately 5.64 pounds (0.89 equivalent gallons) of dissolved-phase hydrocarbons were removed by the groundwater/PSH recovery system in 2021. The amount of dissolved phase hydrocarbons removed in 2021 appears to have decreased compared to 2020, during which 8.07 pounds (1.27 equivalent gallons) of dissolved phase hydrocarbons were

[7] In response to Comment 4 in NMED (HWB-TWP-21-001) dated January 12, 2022.

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removed from approximately 94,800 gallons of treated groundwater. A total of approximately 85 pounds of dissolved TVOCs has been removed by the groundwater remediation system since 2009. In addition, approximately 342 gallons of PSH accumulated in the surge tank in 2021. PSH separated in the surge tank is removed by a vacuum truck and sent to a permitted off-site disposal facility periodically. Historical PSH recovery volumes are provided in **Table 4-6.**

To address residual soil contamination within the source area, SVE wells were co-located with the MPE wells. The SVE wells (apart from SVE-3, SVE-23, and SVE-30) were advanced approximately 30-35 ft below ground surface (bgs) within the shallow soil zone consisting of primarily sands and gravels. Due to their shallow depth, the SVE wells are frequently above the water table elevation and may not have detectable water. During 2021, SVE-1A, SVE-2A, SVE-3, SVE-22, SVE-24, SVE-25, SVE-26, SVE-27, and SVE-31, were dry during at least one sampling event.

Monthly water treatment samples were collected between April and October 2021. 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**.

Between April and October 2021, the air stripper was monitored at multiple points to detect potential breakthrough of VOCs through the carbon treatment system. The PID readings from locations identified as Prior to Carbon, Between Carbon Vessels, and After Carbon Vessels are provided in **Table 4-5.**

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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 2021 Upper Aquifer groundwater gauging data identified a northern component of groundwater flow with a gradient of 0.017 ft/ft and 0.018 ft/ft during the May 2021 and November 2021 sampling events respectively, and a southeastern component of groundwater flow with a gradient of 0.003 ft/ft during the May 2021 sampling event and 0.003 ft/ft during the November 2021 sampling event. These gradients are generally consistent with previous years' observations.

- Historical gauging data for the Site monitoring wells indicates that between 2009 and 2021 groundwater elevation in the Upper Aquifer of the Project Area has decreased by an average of 0.72 feet and groundwater elevation in the deeper San Andres Formation Aquifer has decreased by 2.47 feet.

- Groundwater gauging data collected from the Site monitoring and recovery wells during the May and November 2021 semi-annual groundwater monitoring events indicates that PSH remains delineated within the Project Area. The average site-wide thicknesses of PSH measured in 2021 was 0.39 foot during the May 2021 sampling event and 1.03 feet during the November 2021 sampling event. The maximum site-wide apparent thicknesses of PSH measured in 2021 was 1.65 feet in MW-16 during the May 2021 sampling event and 2.46 feet in MPE-14 during the November 2021 sampling event.

- Analytical data from the 2021 semi-annual groundwater monitoring events indicates that BTEX, 1,1-DCE, and 1,1-DCA were detected at dissolved concentrations exceeding the GCLs in four 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 2021, the SVE portion of the recovery system was fully operational until the end of August and included all circuits except for periods of maintenance and prior to sampling events. At the end of August 2021, the East Baker malfunctioned and needs replacement,

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which will be performed in 2022 Approximately 1,980 pounds of vapor-phase TVOCs (approximately 312 equivalent gallons) were recovered by the SVE technology.

- The groundwater/PSH recovery system recovered, treated, and discharged 144,900 gallons of groundwater in 2021. Approximately 5.75 pounds of dissolved-phase BTEX hydrocarbons were removed by the groundwater/PSH recovery system in 2021. A total of approximately 85 pounds of dissolved-phase hydrocarbons have been removed by the system since May 2009. The groundwater/PSH recovery system recovered approximately 342 gallons (approximately 2,166 pounds) of PSH in 2021. In total, approximately 4,152 pounds of hydrocarbons were removed by the system in 2021.
- Based on the laboratory results, the groundwater treatment system demonstrate that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater.
- Based on the 2021 groundwater data, the groundwater treatment system continues to control the migration of the PSH plume and continues to recover PSH and dissolved-phase hydrocarbons. The pulse-pumping evaluation will continue in 2022 to perform PSH recovery efficiently. In addition, recovery of PSH via manual bailing, if present will be performed in SVE wells SVE-22, SVE-23, and SVE-25. Manual bailing is a simple and effective method to recover PSH as an interim measure and to understand potential PSH recovery rates (saturation) based on the rebound levels. Recovery amounts from manual bailing efforts will be used to evaluate the need for a more effective recovery method. [8] Recovery amounts and evaluation will be presented in the 2022 Annual Report.

[8] In response to Comment 2 in NMED correspondence (HWB-TWP-21-001) dated January 12, 2022.

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TABLES

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 mS/cm
MW-10	5/11/21	10:00	1.00	19.39	7.10	4.89	163.0	3.751
	11/14/21	15:03	1.25	19.62	7.30	0.86	24.5	3.718
MW-11	5/11/21	9:35	1.50	19.25	7.19	6.19	153.2	3.863
	11/14/21	10:36	2.00	18.95	7.48	2.70	-3.8	3.9
MW-13	11/14/21	16:30	3.00	20.88	7.45	0.68	-36.8	3.872
MW-14	11/14/21	9:55	4.50	18.83	7.21	1.39	-39.4	3.825
MW-16	5/11/21	**Not Sampled due to PSH in Well**						
	11/13/21	**Not Sampled due to PSH in Well**						
MW-17	5/11/21	16:17	3.25	19.36	7.26	5.58	-8.0	4.098
	11/13/21	11:22	2.00	18.61	7.55	5.2	-21.9	4.109
MW-20	5/11/21	10:47	5.00	18.77	7.28	7.70	70.4	3.822
	11/22/21	15:07	5.50	18.45	7.30	6.71	34.5	3.896
MW-21	5/11/21	15:58	4.00	20.29	7.03	4.54	-103.4	3.164
	11/12/21	14:00	3.75	18.55	7.16	1.77	-99.7	3.163
MW-22	5/11/21	10:07	3.00	18.80	7.32	7.09	21.7	3.771
	11/22/21	14:40	3.50	19.35	7.41	3.16	-15.2	3.842
MW-24D	11/22/21	16:50	50.0	18.12	7.41	3.15	-192.7	3.619
MW-26	5/11/21	11:10	6.00	18.67	6.96	6.32	93.4	3.816
	11/22/21	15:56	7.25	17.85	7.29	6.25	39.2	3.861
MW-27	5/11/21	15:17	3.00	20.04	6.96	2.7	-276	3.867
	11/12/21	12:23	2.50	18.33	7.04	2.34	-181.1	3.971
MW-29	5/11/21	14:47	1.75	19.63	7.13	2.65	-112.7	3.596
	11/11/21	10:42	1.75	18.25	7.32	4.03	-91.2	3.611
MW-32	11/11/21	9:04	1.75	18.30	7.42	4.58	-105.5	3.641
MW-34	5/11/21	14:17	5.00	20.28	7.13	2.12	5.2	3.533
	11/11/21	12:25	5.00	19.30	7.33	1.47	-13.5	3.596
MW-35	11/11/21	13:47	7.00	19.18	7.48	7.34	60.8	4.06
MW-37	11/10/21	13:05	4.50	19.27	7.22	1.8	45.2	3.885
MW-39	5/11/21	15:45	9.50	18.98	7.06	6.97	95.6	3.789
	11/23/21	12:52	10.00	18.87	7.24	3.10	30.8	3.841
MW-40	5/11/21	14:53	7.50	18.98	7.02	5.14	71.1	3.799
	11/23/21	11:24	7.50	18.41	7.40	3.24	11.6	3.371
MW-41	5/11/21	15:21	6.0	19.42	7.09	7.11	85.2	3.717
	11/23/21	12:10	6.00	19.38	7.26	3.27	23.5	3.357
MW-42	5/11/21	11:58	9.50	18.74	7.04	4.82	92.6	3.814
	11/23/21	10:36	10.0	18.75	7.25	2.23	-0.3	3.868
SVE-28	5/11/21	11:20	**Parameters not collected due to PSH odor[1]**					
	11/15/21	12:38	3.00	19.87	7.09	2.93	-97.6	3.413
SVE-30	5/11/21	10:50	**Parameters not collected due to PSH odor[1]**					
	11/14/21	11:20	**Insufficient water in well to collect parameters**					
SVE-31	5/11/21	**DRY**						
	11/15/21	13:31	1.25	19.70	7.14	2.33	-9.9	4.468
RW-1	5/11/21	13:15	**Parameters not collected due to PSH odor[1]**					
	11/15/21	11:32	32.00	21.06	7.11	2.89	-156.0	3.28

Notes
mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
NS - Not Analyzed
Note: Field parameters are only shown for wells sampled
[1] - Parameters not collected due to PSH odor causing concerns with damaging field equipment.
°C - Degrees Celsius

Prepared by: SWS 12/7/21
Checked by: AP 6/14/2022

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TRANSWESTERN PIPELINE COMPANY
An ENERGY TRANSFER Company

NV

March 30, 2022

Mr. Rick Shean, Bureau Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

RE: Submittal of 2021 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. Shean:

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 *2021 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 Steve Diamond of EarthCon Consultants, Inc. at 770-973-2100, ext. 2876.

Sincerely,

SBoultinghouse

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

Attachment: 2021 Groundwater Remediation Activities for the Former Surface Impoundments Annual Report – (two hard copies and one electronic copy)

ec: D. Cobrain, 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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REPORT OF 2021 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:

WSP USA, INC.
1880 WEST OAK PARKWAY, SUITE 106
MARIETTA, GA 30062

March 2022

Report of 2021 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

March 2022

WSP USA, Inc. (formally EarthCon Consultants, Inc.) is submitting to Transwestern Pipeline Company, LLC (Transwestern) this *Report of 2021 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 WSP USA.

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 WSP USA is at the sole risk of those parties. This report was prepared by or performed under the direction of the WSP USA Professionals listed below and approved by Transwestern.

Signed:

Sofie Weber-Snapp
Lead Consultant
WSP USA, Inc.

Steve Diamond, PE (AL, GA, LA, MO, SC, MI)
Senior Engineer
WSP USA, Inc.

J.D. Haines, LPG (IN)
Principal Geologist
WSP USA, Inc.

Date: March 30, 2022

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Report of 2021 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

March 2022
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.

3/30/2022

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

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EXECUTIVE SUMMARY

This *Report of 2021 Groundwater Remediation Activities* was prepared by WSP, Inc. (formerly EarthCon Consultants, Inc.) 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. The purpose of the SFO, as stated in *Section III.A*, are 1) to ensure the continuance of ongoing remediation of contaminated soils and groundwater in the vicinity of the former surface impoundments to levels protective of human health or the environment in order to complete clean closure of the interim status units; and 2) to prevent or mitigate the migration of hazardous constituents at or from the Facility. As per *Section III.O* of the SFO, investigations, remediation, and other work that has been satisfactorily completed prior to the effective date of this Order, and that fulfills the substantive requirements of this Order, may be used to comply with this Order. Based on past investigations and the implementation of the corrective action plan, the groundwater treatment system continues to effectively control the migration of the PSH plume and continues to recover PSH and dissolved-phase hydrocarbons. Transwestern has fully complied with SFO objectives and has taken numerous actions so that soils and groundwater at the former surface impoundments will not adversely impact human health or the environment. 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 were 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

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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 2021, the SVE portion of the recovery system was operational for the year. However, in August 2021, the East Baker unit showed signs of severe material deterioration and was deemed unsafe and unrepairable for operation. The West Baker Unit continued operation. The East Baker Unit is planned to be replaced with a new system in 2022 once permit approvals have been received. During this time, the SVE system operated full-time except for periods of maintenance and during the semi-annual sampling events. The groundwater portion of the system operated from April through October in 2021. The groundwater portion of the system was manually deactivated in January, February, March, November, and December of 2021 due to freezing temperatures: however, additional cold weather protection, such as heat tape and pipe insulation, have been installed throughout the process in January 2022 to improve operational times during the winter season.

The remediation system recovered approximately 1,980 pounds of vapor-phase hydrocarbons (or approximately 312 equivalent gallons) in 2021 during SVE system operation. The groundwater/PSH recovery system treated and discharged approximately 129,200 gallons of groundwater, removed approximately 5.64 pounds (approximately 0.89 equivalent gallons) of dissolved-phase hydrocarbons and recovered approximately 342 gallons (2,166 pounds) of PSH. A total of approximately 4,152 pounds of hydrocarbons were removed by the system in 2021. This compares to a total of approximately 8,876 pounds of hydrocarbons removed in 2020 (2,918 pounds of vapor-phase hydrocarbons, 940 gallons (5,950 pounds) of PSH, and 8.07 pounds of dissolved phase hydrocarbons). Removal rates for the last seven years of operation are included below in **ES.1**. and **ES.2** as a comparison.

ES.1 - Historical Hydrocarbon Removal Summary

Year	Extracted Groundwater (gals)	PSH Recovered (lbs)	Dissolved-Phase Mass Removed (lbs)	Vapor-Phase Mass Removal (lbs)
2015	64,140	1,962	2.94	2,405
2016	137,650	2,216	5.35	2,026
2017	90,550	9,812	8.60	3,038
2018	41,420	8,419	3.12	8,356
2019	24,080	9,812	2.58	5,760

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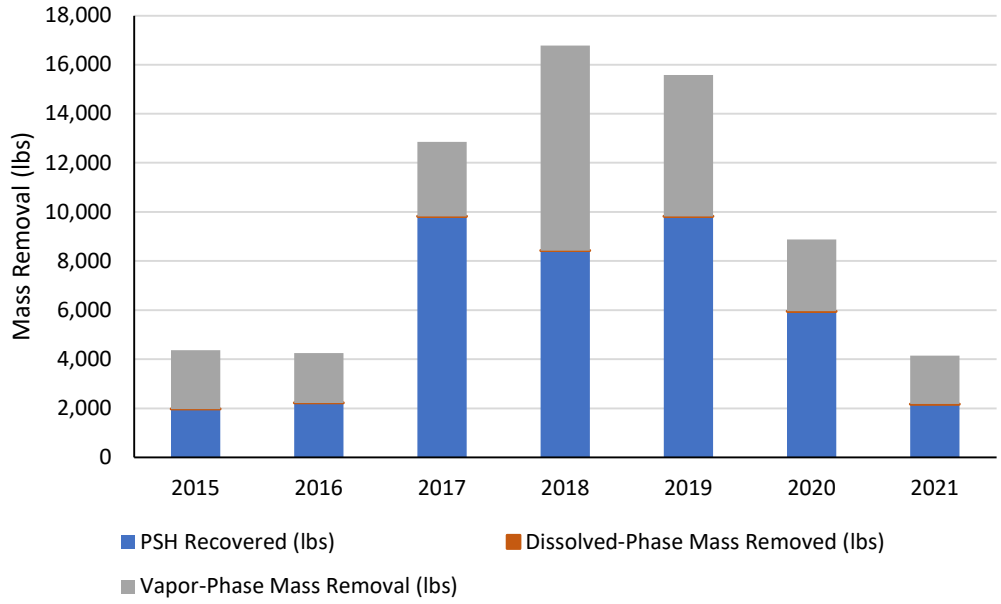
2020	97,400	5,950	8.07	2,918
2021	129,200	2,166	5.64	1,980

ES.2 - Historical Hydrocarbon Removal Summary



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 May 2021 and November 2021 to assess groundwater conditions.

Consistent with historical data, the May and November 2021 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 2021 semi-annual groundwater sampling events, PSH was present in groundwater monitoring wells, SVE wells, and MPE wells located in the vicinity of the former surface impoundments. Dissolved benzene, 1,1-DCE and 1,1-DCA were detected in groundwater at concentrations exceeding the applicable cleanup levels during the sampling events. It appears the benzene exceeding the GCLs is closely associated with observable PSH. Samples from MW-20, MW-22, MW-26, MW-39, MW-40, MW-41, MW-42, SVE-28, SVE-30, and RW-1 were

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also analyzed for 1,4-dioxane, but this constituent was only detected at SVE-30, at concentrations below the applicable cleanup levels. 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 2021, Transwestern recommends continued operation of the remediation system in 2022 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.

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Table 4-4 Summary of Water Treatment System Analyses

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Appendix A Copies of the May and November 2021 Field Notes
Appendix B Analytical Data Packages – Semi-annual Groundwater Sampling (Electronic File)[1]
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[1] In response to Comment 7 in NMED correspondence (HWB-TWP-21-001) dated July 15, 2021.

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1.0 INTRODUCTION

This *Report of 2021 Groundwater Remediation Activities* was prepared by WSP USA, Inc. (former EarthCon Consultants, Inc.) 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 referred to as

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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 to a permitted off-site disposal 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. For the 2021 reporting year, the SVE system operated year-round and the groundwater/PSH recovery occurred from April to November. 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 2021. 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 2021 include the following and are summarized below:

- Semi-annual groundwater monitoring;
- Remediation system operation, maintenance, and monitoring;

3.0 SEMI-ANNUAL GROUNDWATER MONITORING

Semi-annual groundwater sampling to assess groundwater conditions was conducted in May 2021 and November 2021 by CMB in general accordance with the SFO. The groundwater monitoring network at the Site consists of 30 monitoring wells, of which 25 are included within the monitoring plan and the remaining wells are used for gauging. Groundwater samples were attempted to be collected from 19 of these monitoring wells during the May 2021 sampling event and from 25 of these monitoring wells during the November 2021 sampling event, in general accordance with the approved *Sampling and Analysis Plan* (SAP) presented in **Table 3-1**.

Prior to commencing semi-annual groundwater gauging and sampling, the remediation system (groundwater extraction and soil vapor extraction) 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, in accordance with 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;

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- pH varies by no more than 0.2 pH units;
- specific conductance readings are within 10% of the average.

Field parameters recorded from the May 2021, and November 2021 sampling events are presented in **Table 3-3**. Historical field parameters prior to the 2021 sampling events are included in **Table 3-4**. During the May and November 2021 sampling events, stabilization criteria was met for all wells. As per EPA Region 4 SESD Operating Procedure, an adequate purge is normally achieved when three to five well volumes have been purged. At least three purge volumes (and up to a total of five well volumes) were used if necessary to achieve parameter stability.

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, for Volatile Organic Compounds (VOCs) via EPA Method 8260B, and for 1,4-Dioxane via EPA Method 8270C SIM in 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 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 identified as described in the following paragraphs.

The target constituents-of-concern (COCs) required to be sampled per the approved 2021 SAP 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 Human Health Standard (HHS) described in NMAC 20.6.2, as well as the EPA MCLs for drinking water contaminants. If both a NMWQCC standard and a MCL have been established for an individual substance, then the lower of the two levels is used as the GCL for that COC. If neither a NMWQCC standard nor a MCL has been established for a COC, then the cleanup level is identified as the

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screening level for tap water in Table A-1 of the 2012 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. 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 May and November 2021 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.

3.2.1 Perched Aquifer

Based on current data and historical information dating back to 1991, a perched aquifer appears to intersect wells SVE-23, SVE-25, SVE-27, SVE-28, SVE-31, and RW-1. In addition to the information presented in this report, a work plan will be developed to provide details for delineating the horizontal and vertical extent of the dissolved-phase hydrocarbon and PSH plumes per March 1, 2022, NMED correspondence. The potentiometric surface maps for the Perched Aquifer are presented in **Figures 3-2a** and **3-2b.**

3.2.2 Upper Aquifer

The potentiometric surface maps for the Upper Aquifer, presented in **Figures 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

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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 0.017 ft/ft during the May 2021 sampling event and 0.018 ft/ft during the November 2021 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 0.003 ft/ft during the May 2021 sampling event and 0.003 ft/ft during the November 2021 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 0.72 foot between October 2009 and November 2021. The groundwater elevation in MW-24D, installed in the deeper regional San Andres Formation Aquifer, decreased by 2.47 feet between 2009 and 2021.

3.3 PSH Thickness

Groundwater gauging data collected from site monitoring and recovery wells during the May 2021 sampling event indicates that the average PSH thickness was 0.91 feet, with a maximum of 1.65 feet measured in MW-16. Groundwater gauging data collected from Site monitoring and recovery wells during the November 2021 sampling event indicates that the average apparent PSH thickness was 1.03 feet, with the maximum thickness of 2.46 feet measured in MPE-14. As of 2021, fifteen wells (MW-1B, MW-16, MPE-10, MPE-12, MPE-14, MPE-16, MPE-20, MPE-28, MPE-31, MPE-32, MPE-38, MPE-40, MPE-41, SVE-22, and SVE-23) contain PSH. Correlation graphs have been developed between depth to water and PSH and are presented in **Appendix E**. Due to recovery efforts, PSH thickness has decreased in certain wells despite fluctuations in the water table. PSH thickness has decreased or has not been measurable for multiple consecutive years in MW-2, MW-12, MPE-20, MPE-21, MPE-23, MPE-24, MPE-28, and MPE-31.

3.3.1 Perched Aquifer

On May 7, 2021 and November 3, 2021, liquid levels were measured in shallow wells using an optical interface probe to determine the presence and apparent thickness of PSH. According to

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liquid levels, the apparent PSH thickness ranged between 0.65 feet and 1.47 feet in SVE-23 in May and November 2021, respectively. During 2021, PSH thicknesses were observed in SVE-22, SVE-23 and SVE-25 and appears to be positively correlated with depth to water. Based on monthly water and PSH levels collected in 2021 and presented in Table 3-2, the PSH thickness in SVE-23 appears to increase as groundwater levels decrease in the well.[2] Gauging was conducted every month in 2021 and the data is presented in **Table 3-2**.[3] Distribution of PSH apparent thickness is presented in **Figures 3-2a** and **3-2b**. Further PSH monitoring and recovery via bailing will continue in 2022 for SVE-23 and other SVE wells with PSH detections. In addition, a work plan will be developed to provide details for delineating the horizontal and vertical extent of the PSH plumes in the perch aquifer.[4]

Liquid levels and recovery data collected from bailing activities and delineation data will be evaluated to determine if a more aggressive recovery method is warranted. Although, it should be noted that the current recovery well network for the groundwater extraction and soil vapor extraction is within the footprint of the perched aquifer.

3.3.2 Upper Aquifer

The areal extent of PSH in the Upper Aquifer, as measured during the May and November 2021 semi-annual sampling events, remains delineated within the Project Area and appears consistent with 2020 data. (**Figures 3-5a** and **3-5b**). Although PSH thickness continues to fluctuate in certain wells, there has been an overall decreasing trend in PSH thickness in the Upper Aquifer. Current and historical groundwater gauging data is presented in **Table 3-2**.

3.4 Groundwater Analytical Results

Groundwater samples were collected and analyzed for BTEX by EPA method 8260 or for VOCs via EPA Method 8260B, and 1,4-dioxane was analyzed by EPA method 8270SIM in accordance with the SAP. The analytical results for groundwater samples collected during the May and November 2021 sampling events are summarized in **Table 3-5** and **Table 3-5a** and the laboratory analytical reports are included in **Appendix B**. Due to that the well was dry, no sample was

[2] In response to Comment 1 in NMED correspondence (HWB-TWP-21-002) dated January 12, 2022.
[3] In response to Comment 3 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.
[4] In response to Comment 2 in NMED correspondence (HWB-TWP-21-003) dated March 1, 2022.

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collected from SVE-31 in May 2021. Due to PSH detections, a groundwater sample was not collected from MW-16 in May or November 2021.

3.4.1 Perched Aquifer

In the Perched Aquifer, BTEX was detected above reporting limits in wells SVE-28, SVE-30, and RW-1. However, benzene was the only BTEX constituent in these wells that exceeded GCLs. Analytical data indicates that 1,4-dioxane was not detected in SVE-28 or RW-1. It should be noted that the laboratory detection limit was above the GCL for the May 2021 results. The laboratory was contacted about the detection limit and was lowered for the November 2021 results. Analytical data indicates that 1,1-DCA was detected in concentrations exceeding the GCLs in well SVE-30 during the May and November 2021 sampling events. (**Figures 3-6** through **3-11**).

3.4.2 Upper Aquifer

In the Upper Aquifer, BTEX and 1,4-dioxane concentrations were not detected above laboratory reporting limits in any of the upper aquifer monitoring wells identified in the approved SAP with the exception of MW-16 (PSH detection). Therefore, BTEX and 1,4-dioxane concentrations did not exceed the GCL in the Upper Aquifer.

Analytical data indicates that other VOCs were detected in MW-20, MW-22, MW-26, MW-39, MW-41, and MW-42, but only 1,1-DCE was detected at concentrations that exceed the GCL in wells MW-26 and MW-39 in May and November 2021. Based on the 2021 analytical data, the areal distribution of BTEX, 1,1-DCA, and 1,1-DCE in the Upper Aquifer remains delineated within the Project Area and is consistent with the 2020 data. (**Figures 3-6** through **3-13**).

Analytical results for the duplicates are included in the laboratory data packages in **Appendix B** and indicate that the only target analyte detections were for MW-39, MW-22, and MW-26. 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 30% for each sampling event, with the calculations included in **Appendix B**.

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4.0 REMEDIATION SYSTEM OPERATION, MAINTENANCE, AND MONITORING

During 2021, the SVE portion of the recovery system was operational except for when the SVE system was deactivated for equipment maintenance/repairs and semi-annual sampling events. In addition, the East Baker unit showed signs of severe material deterioration and was deemed unsafe and unrepairable for operation, therefore, the unit was deactivated in August 2021. The West Baker Unit continued operation. The East Baker Unit is planned to be replaced with a new system in 2022 once air permit approvals have been received.

The groundwater/PSH recovery portion of the remediation system operated from April 1, 2021 to November 7, 2021, except for periods of maintenance and during the semi-annual sampling events. In November 2021, the air compressor malfunctioned, and replacement parts were delayed and repairs were completed on December 29, 2021. Specifically, the groundwater/PSH recovery portion of the remediation system was deactivated in January, February, March, and 2021 due to freezing temperatures, see **Table 4-7** for a weather log documenting the temperatures at the site. Starting in December 2021, Transwestern insulated pipes, manifolds, and water lines on the carbon vessels, irrigation tanks, and the water treatment system. Heat tape was also added around the air stripper blower, discharge pumps, and power supply equipment.[5] **Appendix F** shows site photographs of the winterization activities. Additional weather protection will be added as needed to minimize downtime during winter months. However, during extreme freezing temperatures that exist over consecutive days in the winter months, the system will be deactivated. 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.

The groundwater/PSH recovery portion of the remediation system was deactivated 48 to 72 hours prior to the 2021 semi-annual sampling events (May 2021 and November 2021).

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 installing a new pump on

[5] In response to Comment 3 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.

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the air stripper and transfer tank, replace high pressure oil line on the air compressor, replacing filters, decalcifying the air stripper, repairing damage frozen pipes, changing filter bags, cleaning the float switch, installing new pumps, installing new o-rings on the air compressor, fixing hose leaks, changing sock filters, routine preventative maintenance on the compressor, repairing the GAC water hose, and repairing the compressor pressure switch. In addition, well re-development was performed in April and May 2021 for wells MW1B, MW-16, MPE-10, MPE-12, MPE-14, MPE-16, MPE-17, MPE-20, MPE-23, MPE-27, MPE-32, MPE-35, MPE-38, MPE-39, and MPE-40. A jetting tool was lowered into the well at the bottom of the screen interval, and a jet stream was used in 360 degrees to clean the sand filter pack. A 3 foot by 3.5-inch diameter stainless steel bailer was used to bail the 4-inch diameter wells, and a 3 foot by 1.8-inch diameter stainless-steel bailer was used to bail the 2-inch wells. The bailed liquid and suspended biomass were transferred in a mobile tank and later transported and processed in the existing groundwater treatment system. The field notes for the well re-development is found in **Appendix G**.

On August 24, 2021, a pulse pumping evaluation was performed on MPE-16 to better understand the PSH rebound time and to improve the efficiency of PSH recovery.[6] The pump in MPE-16 was deactivated for one week prior to the evaluation to allow liquid levels to return to natural conditions. The thickness of PSH was measured to be approximately 1.47 feet in MPE-16. Afterwards, the pump was activated, and the discharge stream was visually monitored to determine the length of operation time required by the pump to remove 1.47 feet of PSH in MPE-16. According to the evaluation, after less than one hour of pumping, PSH was removed in MPE-16 and the discharge water was clear. The pump was deactivated to allow the PSH to rebound. On the following day, August 25, 2021, PSH thickness was measured to be 0.27 foot and after eight days the PSH stabilized at 0.55 foot. After 41 days since deactivation (October 5, 2021), the PSH thickness was measured to be 0.02 foot, which appears to be correlated with an increase of groundwater level. Based on the results, a pulsing sequence of one hour per day operation appears appropriate for MPE-16 to efficiently recover PSH. The pulsing evaluation was planned to continue on MPE-32, MPE-38, MPE-40, and MPE-41; however, due to semi-sampling event, air compressor repairs, and personnel field schedules, continuation of the pulse pump evaluation was delayed and is anticipated to be restarted in early Spring 2022.

[6] In response to Comment 7 in NMED correspondence (HWB-TWP-21-002) dated July 6, 2021.

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Maintenance activities on the SVE portion of the treatment system during this reporting period included repaired flex hose on the west baker unit, replacing the chart recorder paper periodically, installing a new thermocouple, fixing electrical issues, greasing bearings for the blowers, and miscellaneous minor repairs.

Monthly samples were collected from April through December 2021 (except for November 2021) 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. Discharge monitoring data is summarized in **Table 4-4.** 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. Monitoring data is summarized in **Table 4-5**.

On July 15, 2021, NMED issued an approval letter with modifications to the 2020 Report of Groundwater Remediation Activities of the Former Surface Impounds for the Transwestern Compressor Station No. 9. In the letter, Comment 12 addresses the chloride and sulfide concentrations in the post-treatment samples that consistently exceed the New Mexico Water Quality Control Commission (NMWQCC) standards of 250 and 600 mg/L, respectively. NMED requested that the respondent discuss the issue of the chloride and sulfate exceedances with the New Mexico Oil Conservation Division (OCD), and carbon copy (CC) NMED on the OCD notification regarding the issue. Based on historical documents, sulfate and chloride appears to naturally exist in the subsurface at the site, however a discussion with the NMOCD has been scheduled for March 31, 2022 and details of the discussion will be forthcoming in a memorandum.[7]

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 January 2021, March 2021, June 2021, August 2021, and December 2021. In December 2021 only west Baker

[7] In response to Comment 4 in NMED (HWB-TWP-21-001) dated January 12, 2022.

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Furnace samples were collected and analyzed. 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 between 14 and 82 inches of water. The two thermal oxidizers maintained an average chamber treatment temperature of 1,500°F, which is above the required thermal destruction temperature of 1,400°F.

In 2021, air samples of influent vapor were collected from the Baker Furnaces 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 1,980 pounds (or about 312 equivalent gallons) of vapor-phase TVOCs in 2021, compared to the approximately 2,918 pounds (or about 461 gallons) removed in 2020. 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 0.49 gallons per minute (gpm) in 2021. Operation records for the irrigation system presented in **Table 4-2** indicate that the volume of groundwater recovered, treated, and discharged in 2021 was approximately 129,200 gallons.

According to **Table 4-3**, approximately 5.64 pounds (0.89 equivalent gallons) of dissolved-phase hydrocarbons were removed by the groundwater/PSH recovery system in 2021. The amount of dissolved phase hydrocarbons removed in 2021 appears to have decreased compared to 2020, during which 8.07 pounds (1.27 equivalent gallons) of dissolved phase hydrocarbons were removed from approximately 94,800 gallons of treated groundwater. A total of approximately 85 pounds of dissolved TVOCs has been removed by the groundwater remediation system since 2009. In addition, approximately 342 gallons of PSH accumulated in the surge tank in 2021. PSH separated in the surge tank is removed by a vacuum truck and sent to a permitted off-site disposal facility periodically. Historical PSH recovery volumes are provided in **Table 4-6.**

To address residual soil contamination within the source area, SVE wells were co-located with the MPE wells. The SVE wells (apart from SVE-3, SVE-23, and SVE-30) were advanced

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approximately 30-35 ft below ground surface (bgs) within the shallow soil zone consisting of primarily sands and gravels. Due to their shallow depth, the SVE wells are frequently above the water table elevation and may not have detectable water. During 2021, SVE-1A, SVE-2A, SVE-3, SVE-22, SVE-24, SVE-25, SVE-26, SVE-27, and SVE-31, were dry during at least one sampling event.

Monthly water treatment samples were collected between April and October 2021. 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**.

Between April and October 2021, the air stripper was monitored at multiple points to detect potential breakthrough of VOCs through the carbon treatment system. The PID readings from locations identified as Prior to Carbon, Between Carbon Vessels, and After Carbon Vessels are provided in **Table 4-5.**

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 2021 Upper Aquifer groundwater gauging data identified a northern component of groundwater flow with a gradient of 0.017 ft/ft and 0.018 ft/ft during the May 2021 and November 2021 sampling events respectively, and a southeastern component of groundwater flow with a gradient of 0.003 ft/ft during the May 2021 sampling event and 0.003 ft/ft during the November 2021 sampling event. These gradients are generally consistent with previous years' observations.
- Historical gauging data for the Site monitoring wells indicates that between 2009 and 2021 groundwater elevation in the Upper Aquifer of the Project Area has decreased by an

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average of 0.72 feet and groundwater elevation in the deeper San Andres Formation Aquifer has decreased by 2.47 feet.

- Groundwater gauging data collected from the Site monitoring and recovery wells during the May and November 2021 semi-annual groundwater monitoring events indicates that PSH remains delineated within the Project Area. The average site-wide thicknesses of PSH measured in 2021 was 0.39 foot during the May 2021 sampling event and 1.03 feet during the November 2021 sampling event. The maximum site-wide apparent thicknesses of PSH measured in 2021 was 1.65 feet in MW-16 during the May 2021 sampling event and 2.46 feet in MPE-14 during the November 2021 sampling event.

- Analytical data from the 2021 semi-annual groundwater monitoring events indicates that BTEX, 1,1-DCE, and 1,1-DCA were detected at dissolved concentrations exceeding the GCLs in four 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 2021, the SVE portion of the recovery system was fully operational until the end of August and included all circuits except for periods of maintenance and prior to sampling events. At the end of August 2021, the East Baker malfunctioned and needs replacement, which will be performed in 2022 Approximately 1,980 pounds of vapor-phase TVOCs (approximately 312 equivalent gallons) were recovered by the SVE technology.

- The groundwater/PSH recovery system recovered, treated, and discharged 144,900 gallons of groundwater in 2021. Approximately 5.75 pounds of dissolved-phase BTEX hydrocarbons were removed by the groundwater/PSH recovery system in 2021. A total of approximately 85 pounds of dissolved-phase hydrocarbons have been removed by the system since May 2009. The groundwater/PSH recovery system recovered approximately 342 gallons (approximately 2,166 pounds) of PSH in 2021. In total, approximately 4,152 pounds of hydrocarbons were removed by the system in 2021.

- Based on the laboratory results, the groundwater treatment system demonstrate that the treatment system is effectively removing the hydrocarbon constituents present in the recovered groundwater.

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- Based on the 2021 groundwater data, the groundwater treatment system continues to control the migration of the PSH plume and continues to recover PSH and dissolved-phase hydrocarbons. The pulse-pumping evaluation will continue in 2022 to perform PSH recovery efficiently. In addition, recovery of PSH via manual bailing, if present will be performed in SVE wells SVE-22, SVE-23, and SVE-25. Manual bailing is a simple and effective method to recover PSH as an interim measure and to understand potential PSH recovery rates (saturation) based on the rebound levels. Recovery amounts from manual bailing efforts will be used to evaluate the need for a more effective recovery method. [8] Recovery amounts and evaluated will be presented in the 2022 Annual Report.

[8] In response to Comment 2 in NMED correspondence (HWB-TWP-21-001) dated January 12, 2022.

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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	Comments
MW-10	--	BTEX (8260)	11/14/21	<1	NA	
MW-11	--	BTEX (8260)	11/14/21	<1	NA	
MW-13	--	BTEX (8260)	11/14/21	<1	NA	
MW-14	--	BTEX (8260)	11/14/21	<1	NA	
MW-16	BTEX (8260)	BTEX (8260)	05/31/18	320	NA	PSH in well, did not sample in Nov. 2021
MW-17	--	BTEX (8260)	11/13/21	<1	NA	
MW-20	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/22/21	<1	2.2	
MW-21	BTEX (8260)	BTEX (8260)	11/12/21	<1	NA	
MW-22	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/22/21	<1	2	
MW-24D	--	BTEX (8260)	11/22/21	<1	NA	
MW-26	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/22/21	<1	35	
MW-27	BTEX (8260)	BTEX (8260)	11/12/21	<1	NA	
MW-29	BTEX (8260)	BTEX (8260)	11/11/21	<1	NA	
MW-32	--	BTEX (8260)	11/11/21	<1	NA	
MW-34	BTEX (8260)	BTEX (8260)	11/11/21	<1	NA	
MW-35	--	BTEX (8260)	11/11/21	<1	NA	
MW-37	--	BTEX (8260)	11/10/21	<1	NA	
MW-39	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/23/21	<1	19	
MW-40	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/23/21	<1	<1	
MW-41	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/23/21	<1	1.2	
MW-42	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/23/21	<1	2.2	
SVE-28	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/15/21	4	<1	
SVE-30	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/14/21	<5	<5	
SVE-31	--	BTEX (8260)	11/15/21	<1	<1	
RW-1	VOCs (8260), 1-4 Dioxane	VOCs (8260), 1-4 Dioxane	11/15/21	17	<1	

Notes:

Prepared by: HRB 1/2/2022

Checked by: SWS 1/12/2022

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) 1-4 Dioxane analyzed by EPA Method 8270SIM
5) ppb - parts per billion
6) NMWQCC - New Mexico Water Quality Control Commission
7) EPA MCL - United States Environmental Protection Agency's Maximum Contamination Level
8) NMED approved Sampling and Anlaysis Plan 2021

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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	3/10/2009	3609.96	60.46	62.20	1.74	3,549.08
	10/8/2009		sheen	64.18	sheen	3,545.78
	1/26/2010		60.32	60.60	0.28	3,549.57
	3/22/2010		59.82	61.86	2.04	3,549.65
	4/17/2011		60.18	62.05	1.87	3,549.33
	12/22/2011		61.01	63.24	2.23	3,548.41
	4/17/2012		60.65	62.45	1.80	3,548.88
	10/18/2012		61.88	64.21	2.33	3,547.52
	1/22/2013		61.38	63.55	2.17	3,548.06
	4/15/2013		61.24	63.10	1.86	3,548.27
	11/3/2013	3610.74 (h)	62.19	63.35	1.16	3,548.27
	4/30/2014		61.50	62.73	1.23	3,548.94
	11/19/2014		61.87	64.03	2.16	3,548.35
	4/21/2015		61.76	63.25	1.49	3,548.62
	11/3/2015		61.88	63.66	1.78	3,548.43
	4/29/2016		61.81	63.28	1.47	3,548.58
	11/16/2016		62.12	63.68	1.56	3,548.25
	5/22/2017		61.80	62.90	1.10	3,548.68
	11/13/2017		62.65	64.41	1.76	3,547.67
	6/1/2018		60.60	61.25	0.65	3,549.98
	11/6/2018		63.08	63.09	0.01	3,547.66
	6/24/2019		61.27	62.18	0.91	3,549.25
	1/5/2020		61.60	61.95	0.35	3,549.06
	5/13/2020		61.73	62.07	0.34	3,548.93
	11/10/2020		62.75	62.95	0.20	3,547.94
	1/18/2021		(a)	62.38	(a)	3,548.36
	2/10/2021		62.70	62.91	0.21	3,547.99
	3/8/2021		62.65	62.91	0.26	3,548.03
	4/5/2021		62.71	62.95	0.24	3,547.97
	5/7/2021		62.70	62.92	0.22	3,547.99
	6/9/2021		62.56	62.59	0.03	3,548.17
	7/10/2021		62.85	62.90	0.05	3,547.88
	8/2/2021		62.80	62.95	0.15	3,547.90
	9/1/2021		62.80	63.10	0.30	3,547.87
	10/5/2021		62.80	63.40	0.60	3,547.80
	11/3/2021		62.83	63.65	0.82	3,547.71
	11/10/2021		62.55	63.50	0.95	3,547.96
	12/2/2021		62.56	63.50	0.94	3,547.95
MW-2	3/10/2009	3611.76	(a)	59.10	(a)	3,552.66
	10/8/2009		(a)	60.39	(a)	3,551.37
	3/22/2010		(a)	59.66	(a)	3,552.10
	4/17/2011		(a)	59.77	(a)	3,551.99
	12/22/2011		(a)	59.79	(a)	3,551.97
	4/17/2012		(a)	60.30	(a)	3,551.46
	10/18/2012		(a)	61.30	(a)	3,550.46
	1/22/2013		(a)	61.07	(a)	3,550.69
	4/15/2013		(a)	61.30	(a)	3,550.46
	11/3/2013	3612.62 (h)	(a)	60.77	(a)	3,551.85
	4/30/2014		(a)	60.48	(a)	3,552.14
	11/19/2014		(a)	60.60	(a)	3,552.02
	4/21/2015		(a)	58.85	(a)	3,553.77
	11/3/2015		(a)	59.45	(a)	3,553.17
	4/28/2016		(a)	59.59	(a)	3,553.03
	11/16/2016		(a)	59.97	(a)	3,552.65
	5/22/2017		(a)	60.29	(a)	3,552.33
	11/13/2017		(a)	60.83	(a)	3,551.79
	6/1/2018		(a)	dry	(a)	NA
	11/6/2018		(a)	60.42	(a)	3,552.20
	6/24/2019		(a)	59.78	(a)	3,552.84
	1/5/2020		(a)	59.88	(a)	3,552.74

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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-2	5/13/2020		(a)	60.25	(a)	3,552.37
	11/10/2020		(a)	61.50	(a)	3,551.12
	5/7/2021		(a)	61.35	(a)	3,551.27
	11/10/2021		(a)	61.40	(a)	3,551.22
MW-3	3/10/2009	3614.87	(a)	66.23	(a)	3,548.64
	10/8/2009		(a)	66.77	(a)	3,548.10
	3/22/2010		(a)	66.37	(a)	3,548.50
	4/17/2011		(a)	66.39	(a)	3,548.48
	12/22/2011		(a)	66.86	(a)	3,548.01
	4/17/2012		(a)	66.67	(a)	3,548.20
	10/18/2012		(a)	67.28	(a)	3,547.59
	1/22/2013		(a)	67.22	(a)	3,547.65
	4/15/2013		(a)	67.11	(a)	3,547.76
	11/3/2013	3615.75 (h)	(a)	67.47	(a)	3,548.28
	4/30/2014		(a)	67.31	(a)	3,548.44
	11/19/2014		(a)	67.74	(a)	3,548.01
	4/21/2015		(a)	67.52	(a)	3,548.23
	11/3/2015		(a)	67.61	(a)	3,548.14
	4/29/2016		(a)	67.42	(a)	3,548.33
	11/16/2016		(a)	67.95	(a)	3,547.80
	5/22/2017		(a)	67.55	(a)	3,548.20
	11/13/2017		(a)	68.20	(a)	3,547.55
	6/1/2018		(a)	67.85	(a)	3,547.90
	11/6/2018		(a)	68.05	(a)	3,547.70
	6/24/2019		(a)	67.45	(a)	3,548.30
	1/5/2020		(a)	67.55	(a)	3,548.20
	5/13/2020		(a)	67.90	(a)	3,547.85
	11/10/2020		(a)	68.10	(a)	3,547.65
	5/7/2021		(a)	67.94	(a)	3,547.81
	11/10/2021		(a)	67.85	(a)	3,547.90
MW-7	3/10/2009	3599.20	(a)	58.24	(a)	3,540.96
	10/8/2009		(a)	62.12	(a)	3,537.08
	3/22/2010		(a)	58.68	(a)	3,540.52
	4/17/2011		(a)	59.42	(a)	3,539.78
	12/22/2011		(a)	63.09	(a)	3,536.11
	4/17/2012		(a)	62.30	(a)	3,536.90
	10/18/2012		(a)	66.14	(a)	3,533.06
	1/22/2013		(a)	64.40	(a)	3,534.80
	4/15/2013		(a)	63.71	(a)	3,535.49
	11/3/2013	3599.96 (h)	(a)	66.07	(a)	3,533.89
	4/30/2014		(a)	64.30	(a)	3,535.66
	11/19/2014		(a)	64.02	(a)	3,535.94
	4/20/2015		(a)	61.04	(a)	3,538.92
	11/3/2015		(a)	63.24	(a)	3,536.72
	4/27/2016		(a)	61.15	(a)	3,538.81
	11/16/2016		(a)	63.80	(a)	3,536.16
	5/22/2017		(a)	62.30	(a)	3,537.66
	11/13/2017		(a)	64.46	(a)	3,535.50
	6/1/2018		(a)	63.37	(a)	3,536.59
	11/6/2018		(a)	65.55	(a)	3,534.41
	6/24/2019		(a)	62.93	(a)	3,537.03
	1/6/2020		(a)	65.10	(a)	3,534.86
	5/12/2020		(a)	64.19	(a)	3,535.77
	11/9/2020		(a)	67.85	(a)	3,532.11
	5/7/2021		(a)	66.61	(a)	3,533.35
	11/10/2021		(a)	66.32	(a)	3,533.64

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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-10	3/10/2009	3617.85	(a)	68.49	(a)	3,549.36
	10/8/2009		(a)	69.18	(a)	3,548.67
	3/22/2010		(a)	68.85	(a)	3,549.00
	4/17/2011		(a)	68.85	(a)	3,549.00
	12/22/2011		(a)	69.32	(a)	3,548.53
	4/17/2012		(a)	69.19	(a)	3,548.66
	10/18/2012		(a)	69.78	(a)	3,548.07
	1/22/2013		(a)	69.79	(a)	3,548.06
	4/15/2013		(a)	69.70	(a)	3,548.15
	11/3/2013	3618.81 (h)	(a)	70.04	(a)	3,548.77
	4/30/2014		(a)	69.93	(a)	3,548.88
	11/19/2014		(a)	70.23	(a)	3,548.58
	4/21/2015		(a)	70.06	(a)	3,548.75
	11/3/2015		(a)	70.07	(a)	3,548.74
	4/29/2016		(a)	69.90	(a)	3,548.91
	11/16/2016		(a)	70.43	(a)	3,548.38
	5/22/2017		(a)	70.03	(a)	3,548.78
	11/13/2017		(a)	70.62	(a)	3,548.19
	6/1/2018		(a)	70.35	(a)	3,548.46
	11/6/2018		(a)	70.45	(a)	3,548.36
	6/24/2019		(a)	69.85	(a)	3,548.96
	1/5/2020		(a)	69.91	(a)	3,548.90
	2/13/2020		(a)	69.87	(a)	3,548.94
	5/13/2020		(a)	69.97	(a)	3,548.84
	11/10/2020		(a)	70.49	(a)	3,548.32
	5/7/2021		(a)	70.30	(a)	3,548.51
	11/10/2021		(a)	70.00	(a)	3,548.81
MW-11	3/10/2009	3613.31	(a)	64.30	(a)	3,549.01
	10/8/2009		(a)	65.39	(a)	3,547.92
	3/22/2010		(a)	64.69	(a)	3,548.62
	4/17/2011		(a)	64.55	(a)	3,548.76
	12/22/2011		(a)	65.36	(a)	3,547.95
	4/17/2012		(a)	64.97	(a)	3,548.34
	10/18/2012		(a)	66.03	(a)	3,547.28
	1/22/2013		(a)	65.69	(a)	3,547.62
	4/15/2013		(a)	65.45	(a)	3,547.86
	11/3/2013	3614.08 (h)	(a)	65.95	(a)	3,548.13
	4/30/2014		(a)	65.71	(a)	3,548.37
	11/19/2014		(a)	66.47	(a)	3,547.61
	4/21/2015		(a)	65.70	(a)	3,548.38
	11/3/2015		(a)	65.53	(a)	3,548.55
	4/28/2016		(a)	65.50	(a)	3,548.58
	11/16/2016		(a)	66.67	(a)	3,547.41
	5/22/2017		(a)	65.55	(a)	3,548.53
	11/13/2017		(a)	66.83	(a)	3,547.25
	6/1/2018		(a)	66.07	(a)	3,548.01
	11/6/2018		(a)	65.90	(a)	3,548.18
	6/24/2019		(a)	65.18	(a)	3,548.90
	1/5/2020		(a)	65.25	(a)	3,548.83
	2/13/2020		(a)	65.10	(a)	3,548.98
	5/13/2020		(a)	65.42	(a)	3,548.66
	11/10/2020		(a)	66.00	(a)	3,548.08
	5/7/2021		(a)	65.97	(a)	3,548.11
	11/10/2021		(a)	65.38	(a)	3,548.70

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-12	3/10/2009	3606.38	56.16	56.57	0.41	3,550.12
	10/8/2009		57.17	57.18	0.01	3,549.21
	1/26/2010		(a)	56.95	(a)	3,549.43
	3/22/2010		56.34	58.23	1.89	3,549.59
	4/17/2011		56.00	57.47	1.47	3,550.03
	12/22/2011		57.01	57.18	0.17	3,549.33
	4/17/2012		56.75	59.72	2.97	3,548.92
	10/15/2012		57.33	58.28	0.95	3,548.82
	1/22/2013		54.93	57.30	2.37	3,550.88
	4/15/2013		57.28	60.74	3.46	3,548.27
	11/3/2013	3606.98 (h)	57.71	60.15	2.44	3,548.68
	4/30/2014		57.57	62.68	5.11	3,548.18
	11/19/2014		56.90	59.91	3.01	3,549.36
	4/21/2015		56.51	56.74	0.23	3,550.41
	11/3/2015		56.03	56.18	0.15	3,550.91
	4/27/2016		56.21	56.27	0.06	3,550.76
	11/16/2016		56.58	56.60	0.02	3,550.40
	5/22/2017		(a)	56.68	(a)	3,550.30
	11/13/2017		(a)	57.21	(a)	3,549.77
	6/1/2018		(a)	56.85	(a)	3,550.13
	11/6/2018		(a)	54.79	(a)	3,552.19
	6/24/2019		(a)	55.38	(a)	3,551.60
	1/6/2020		(a)	56.00	(a)	3,550.98
	5/13/2020		(a)	56.14	(a)	3,550.84
	11/9/2020		(a)	57.12	(a)	3,549.86
	5/7/2021		(a)	57.29	(a)	3,549.69
	11/10/2021		(a)	56.40	(a)	3,550.58
MW-13	3/10/2009	3612.46	(a)	63.76	(a)	3,548.70
	10/8/2009		(a)	64.35	(a)	3,548.11
	1/26/2010		(a)	64.05	(a)	3,548.41
	3/22/2010		(a)	63.78	(a)	3,548.68
	4/17/2011		(a)	63.65	(a)	3,548.81
	12/22/2011		(a)	64.64	(a)	3,547.82
	4/17/2012		(a)	64.31	(a)	3,548.15
	10/18/2012		(a)	64.99	(a)	3,547.47
	1/22/2013		(a)	64.70	(a)	3,547.76
	4/15/2013		(a)	64.59	(a)	3,547.87
	11/3/2013	3613.19 (h)	(a)	64.70	(a)	3,548.49
	4/30/2014		(a)	64.91	(a)	3,548.28
	11/19/2014		(a)	65.27	(a)	3,547.92
	4/21/2015		(a)	64.93	(a)	3,548.26
	11/3/2015		(a)	65.13	(a)	3,548.06
	4/29/2016		(a)	65.03	(a)	3,548.16
	11/16/2016		(a)	65.37	(a)	3,547.82
	5/22/2017		(a)	65.10	(a)	3,548.09
	11/13/2017		(a)	66.42	(a)	3,546.77
	6/1/2018		(a)	65.37	(a)	3,547.82
	11/6/2018		(a)	66.38	(a)	3,546.81
	6/24/2019		(a)	65.18	(a)	3,548.01
	1/5/2020		(a)	65.05	(a)	3,548.14
	5/13/2020		(a)	64.96	(a)	3,548.23
	11/10/2020		(a)	66.28	(a)	3,546.91
	5/7/2021		(a)	65.65	(a)	3,547.54
	11/10/2021		(a)	65.95	(a)	3,547.24

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-14	3/10/2009	3604.83	(a)	54.43	(a)	3,550.40
	10/8/2009		(a)	54.57	(a)	3,550.26
	3/22/2010		(a)	54.23	(a)	3,550.60
	4/17/2011		(a)	54.72	(a)	3,550.11
	12/22/2011		(a)	55.43	(a)	3,549.40
	4/17/2012		(a)	h	(a)	NA
	10/15/2012		(a)	55.52	(a)	3,549.31
	1/22/2013		(a)	55.63	(a)	3,549.20
	4/15/2013		(a)	55.61	(a)	3,549.22
	11/3/2013	3605.55 (h)	(a)	55.89	(a)	3,549.66
	4/30/2014		(a)	56.03	(a)	3,549.52
	11/19/2014		(a)	56.08	(a)	3,549.47
	4/20/2015		(a)	55.83	(a)	3,549.72
	11/3/2015		(a)	55.89	(a)	3,549.66
	4/27/2016		(a)	55.94	(a)	3,549.61
	11/16/2016		(a)	56.14	(a)	3,549.41
	5/22/2017		(a)	56.14	(a)	3,549.41
	11/13/2017		(a)	56.67	(a)	3,548.88
	6/1/2018		(a)	56.25	(a)	3,549.30
	11/6/2018		(a)	56.49	(a)	3,549.06
	6/24/2019		(a)	55.88	(a)	3,549.67
	1/6/2020		(a)	55.95	(a)	3,549.60
	5/13/2020		(a)	56.25	(a)	3,549.30
	11/9/2020		(a)	56.68	(a)	3,548.87
	5/7/2021		(a)	56.66	(a)	3,548.89
	11/10/2021		(a)	55.60	(a)	3,549.95
MW-15	3/10/2009	3610.43	(a)	59.30	(a)	3,551.13
	10/8/2009		(a)	58.82	(a)	3,551.61
	3/22/2010		(a)	58.43	(a)	3,552.00
	4/17/2011		(a)	58.94	(a)	3,551.49
	12/22/2011		(a)	59.26	(a)	3,551.17
	4/17/2012		(a)	59.45	(a)	3,550.98
	10/15/2012		(a)	59.65	(a)	3,550.78
	1/22/2013		(a)	59.88	(a)	3,550.55
	4/15/2013		(a)	59.99	(a)	3,550.44
	11/3/2013	3611.24 (h)	(a)	60.10	(a)	3,551.14
	4/30/2014		(a)	60.36	(a)	3,550.88
	11/19/2014		(a)	60.38	(a)	3,550.86
	4/20/2015		(a)	60.50	(a)	3,550.74
	11/3/2015		(a)	60.73	(a)	3,550.51
	4/27/2016		(a)	60.81	(a)	3,550.43
	11/15/2016		(a)	60.75	(a)	3,550.49
	5/22/2017		(a)	60.67	(a)	3,550.57
	11/13/2017		(a)	61.20	(a)	3,550.04
	5/31/2018		(a)	61.11	(a)	3,550.13
	11/6/2018		(a)	61.16	(a)	3,550.08
	6/24/2019		(a)	61.14	(a)	3,550.10
	1/6/2020		(a)	61.18	(a)	3,550.06
	5/12/2020		(a)	61.42	(a)	3,549.82
	11/9/2020		(a)	61.58	(a)	3,549.66
	5/7/2021		(a)	61.57	(a)	3,549.67
	11/10/2021		(a)	61.75	(a)	3,549.49

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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-16	3/10/2009	3612.41	65.25	65.26	0.01	3,547.16
	10/8/2009		65.91	65.92	0.01	3,546.50
	1/26/2010		(a)	65.57	(a)	3,546.84
	3/22/2010		(a)	65.19	sheen	3,547.22
	4/17/2011		(a)	65.36	(a)	3,547.05
	12/22/2011		(a)	65.99	sheen	3,546.42
	4/17/2012		65.58	65.59	0.01	3,546.83
	10/15/2012		(a)	66.55	(a)	3,545.86
	1/22/2013		(a)	66.32	(a)	3,546.09
	4/15/2013		(a)	66.17	(a)	3,546.24
	11/3/2013	3613.16 (h)	(a)	66.48	(a)	3,546.68
	4/30/2014		(a)	66.20	(a)	3,546.96
	11/19/2014		66.80	66.91	0.11	3,546.33
	4/20/2015		(a)	66.48	(a)	3,546.68
	11/3/2015		67.29	67.46	0.17	3,545.83
	4/27/2016		67.05	67.19	0.14	3,546.08
	11/16/2016		68.11	68.15	0.04	3,545.04
	5/22/2017		66.96	67.20	0.24	3,546.14
	7/14/2017		68.72	69.11	0.39	3,544.35
	7/28/2017		69.11	69.63	0.52	3,543.93
	8/7/2017		69.07	69.61	0.54	3,543.96
	9/9/2017		70.11	70.47	0.36	3,542.96
	11/13/2017		68.44	68.55	0.11	3,544.69
	5/31/2018		67.00	68.22	1.22	3,545.87
	11/6/2018		67.70	69.10	1.40	3,545.12
	6/24/2019		66.96	68.40	1.44	3,545.85
	1/6/2020		68.85	68.90	0.05	3,544.30
	5/12/2020		69.08	69.39	0.31	3,544.01
	11/9/2020		67.70	68.50	0.80	3,545.27
	1/18/2021		67.35	67.40	0.05	3,545.80
	2/10/2021		67.42	67.70	0.28	3,545.67
	3/8/2021		67.57	69.11	1.54	3,545.22
	4/5/2021		67.65	69.31	1.66	3,545.11
	5/7/2021		67.85	69.50	1.65	3,544.91
	6/9/2021		68.36	68.71	0.35	3,544.72
	7/10/2021		68.39	68.85	0.46	3,544.66
	8/2/2021		68.20	68.80	0.60	3,544.82
	9/1/2021		68.10	68.87	0.77	3,544.88
	10/5/2021		68.32	69.30	0.98	3,544.60
	11/3/2021		68.21	69.35	1.14	3,544.68
	11/10/2021		68.00	69.18	1.18	3,544.88
	12/2/2021		68.00	69.18	1.18	3,544.88
MW-17	3/10/2009	3608.43 (d)	(a)	61.20	(a)	3,547.23
	10/8/2009		(a)	61.64	(a)	3,546.79
	3/22/2010		(a)	60.95	(a)	3,547.48
	4/17/2011		(a)	61.11	(a)	3,547.32
	12/22/2011		(a)	61.42	(a)	3,547.01
	4/17/2012		(a)	61.43	(a)	3,547.00
	10/15/2012		(a)	61.95	(a)	3,546.48
	1/22/2013		(a)	62.17	(a)	3,546.26
	4/15/2013		(a)	61.97	(a)	3,546.46
	11/3/2013	3609.20 (h)	(a)	62.23	(a)	3,546.97
	4/30/2014		(a)	62.12	(a)	3,547.08
	11/19/2014		(a)	62.40	(a)	3,546.80
	4/20/2015		(a)	62.21	(a)	3,546.99
	11/3/2015		(a)	62.91	(a)	3,546.29
	4/27/2016		(a)	62.51	(a)	3,546.69
	11/15/2016		(a)	63.37	(a)	3,545.83
	5/22/2017		(a)	62.89	(a)	3,546.31
	11/13/2017		(a)	63.92	(a)	3,545.28
	5/31/2018		(a)	63.11	(a)	3,546.09
	11/6/2018		(a)	63.48	(a)	3,545.72

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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)
	6/23/2019		(a)	63.05	(a)	3,546.15
	1/6/2020		(a)	63.00	(a)	3,546.20
	2/13/2020		(a)	63.23	(a)	3,545.97
	5/12/2020		(a)	63.25	(a)	3,545.95
	11/9/2020		(a)	63.56	(a)	3,545.64
	5/7/2021		(a)	72.62	(a)	3,536.58
	11/10/2021		(a)	63.65	(a)	3,545.55
MW-20	3/10/2009	3600.65	(a)	52.08	(a)	3,548.57
	10/8/2009		(a)	58.30	(a)	3,542.35
	10/9/2009		(a)	55.57	(a)	3,545.08
	3/22/2010		(a)	52.62	(a)	3,548.03
	4/17/2011		(a)	52.43	(a)	3,548.22
	12/22/2011		(a)	58.35	(a)	3,542.30
	4/17/2012		(a)	53.50	(a)	3,547.15
	10/15/2012		(a)	54.92	(a)	3,545.73
	1/22/2013		(a)	54.13	(a)	3,546.52
	4/15/2013		(a)	53.90	(a)	3,546.75
	11/3/2013	3601.34 (h)	(a)	54.35	(a)	3,546.99
	4/30/2014		(a)	54.28	(a)	3,547.06
	11/19/2014		(a)	55.82	(a)	3,545.52
	4/21/2015		(a)	53.24	(a)	3,548.10
	11/3/2015		(a)	52.47	(a)	3,548.87
	4/28/2016		(a)	53.13	(a)	3,548.21
	11/16/2016		(a)	54.28	(a)	3,547.06
	5/22/2017		(a)	53.43	(a)	3,547.91
	11/13/2017		(a)	56.10	(a)	3,545.24
	6/1/2018		(a)	54.03	(a)	3,547.31
	11/6/2018		(a)	50.93	(a)	3,550.41
	6/24/2019		(a)	52.00	(a)	3,549.34
	1/6/2020		(a)	52.45	(a)	3,548.89
	5/13/2020		(a)	52.70	(a)	3,548.64
	11/9/2020		(a)	53.90	(a)	3,547.44
	5/7/2021		(a)	53.91	(a)	3,547.43
	11/10/2021		(a)	52.53	(a)	3,548.81
MW-21	3/10/2009	3611.99 (d)	(a)	65.43	(a)	3,546.56
	10/8/2009		(a)	66.30	(a)	3,545.69
	1/26/2010		(a)	65.79	(a)	3,546.20
	3/22/2010		(a)	65.31	(a)	3,546.68
	4/17/2011		(a)	65.02	(a)	3,546.97
	12/22/2011		(a)	65.28	(a)	3,546.71
	4/17/2012		(a)	65.44	(a)	3,546.55
	10/15/2012		(a)	65.57	(a)	3,546.42
	1/22/2013		(a)	65.51	(a)	3,546.48
	4/15/2013		(a)	65.54	(a)	3,546.45
	11/3/2013	3612.71 (h)	(a)	66.08	(a)	3,546.63
	4/30/2014		(a)	65.82	(a)	3,546.89
	11/19/2014		(a)	66.17	(a)	3,546.54
	4/20/2015		(a)	66.08	(a)	3,546.63
	11/3/2015		(a)	66.15	(a)	3,546.56
	4/27/2016		(a)	66.34	(a)	3,546.37
	11/15/2016		(a)	66.43	(a)	3,546.28
	5/22/2017		(a)	66.32	(a)	3,546.39
	7/14/2017		(a)	67.38	(a)	3,545.33
	7/28/2017		(a)	67.28	(a)	3,545.43
	8/7/2017		(a)	67.17	(a)	3,545.54
	9/9/2017		(a)	67.53	(a)	3,545.18
	11/13/2017		(a)	66.65	(a)	3,546.06
	5/31/2018		(a)	66.77	(a)	3,545.94
	11/6/2018		(a)	66.88	(a)	3,545.83
	6/23/2019		(a)	66.60	(a)	3,546.11
	11/19/2019		(a)	66.98	(a)	3,545.73

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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-21	5/13/2020		(a)	66.70	(a)	3,546.01
	11/9/2020		(a)	66.65	(a)	3,546.06
	5/7/2021		(a)	66.58	(a)	3,546.13
	11/10/2021		(a)	67.30	(a)	3,545.41
MW-22	3/10/2009	3606.04	(a)	57.14	(a)	3,548.90
	10/8/2009		(a)	58.25	(a)	3,547.79
	3/22/2010		(a)	57.33	(a)	3,548.71
	4/17/2011		(a)	57.38	(a)	3,548.66
	12/22/2011		(a)	58.65	(a)	3,547.39
	4/17/2012		(a)	57.88	(a)	3,548.16
	10/15/2012		(a)	58.93	(a)	3,547.11
	1/22/2013		(a)	58.60	(a)	3,547.44
	4/15/2013		(a)	58.36	(a)	3,547.68
	11/3/2013	3606.62 (h)	(a)	58.94	(a)	3,547.68
	4/30/2014		(a)	58.49	(a)	3,548.13
	11/19/2014		(a)	59.38	(a)	3,547.24
	4/21/2015		(a)	58.56	(a)	3,548.06
	11/3/2015		(a)	58.42	(a)	3,548.20
	4/28/2016		(a)	58.38	(a)	3,548.24
	11/16/2016		(a)	59.33	(a)	3,547.29
	5/22/2017		(a)	58.47	(a)	3,548.15
	11/13/2017		(a)	59.63	(a)	3,546.99
	6/1/2018		(a)	58.96	(a)	3,547.66
	11/6/2018		(a)	58.59	(a)	3,548.03
	6/24/2019		(a)	57.75	(a)	3,548.87
	1/6/2020		(a)	58.01	(a)	3,548.61
	5/13/2020		(a)	58.10	(a)	3,548.52
	11/9/2020		(a)	58.78	(a)	3,547.84
	5/7/2021		(a)	58.74	(a)	3,547.88
	11/10/2021		(a)	58.11	(a)	3,548.51
MW-24 D	3/10/2009	3595.95 (c)	(a)	56.62	(a)	3,539.33
	10/8/2009		(a)	61.13	(a)	3,534.82
	3/22/2010		(a)	56.22	(a)	3,539.73
	4/17/2011		(a)	58.73	(a)	3,537.22
	12/22/2011		(a)	60.28	(a)	3,535.67
	4/17/2012		(a)	61.39	(a)	3,534.56
	10/15/2012		(a)	65.33	(a)	3,530.62
	1/22/2013		(a)	61.26	(a)	3,534.69
	4/15/2013		(a)	62.76	(a)	3,533.19
	11/3/2013	3596.80 (h)	(a)	64.42	(a)	3,532.38
	4/30/2014		(a)	62.91	(a)	3,533.89
	11/19/2014		(a)	61.76	(a)	3,535.04
	4/21/2015		(a)	59.61	(a)	3,537.19
	11/3/2015		(a)	61.03	(a)	3,535.77
	4/28/2016		(a)	59.44	(a)	3,537.36
	11/16/2016		(a)	61.59	(a)	3,535.21
	5/22/2017		(a)	61.03	(a)	3,535.77
	11/13/2017		(a)	62.67	(a)	3,534.13
	6/1/2018		(a)	62.90	(a)	3,533.90
	11/6/2018		(a)	62.78	(a)	3,534.02
	6/24/2019		(a)	61.91	(a)	3,534.89
	1/6/2020		(a)	61.90	(a)	3,534.90
	5/13/2020		(a)	63.05	(a)	3,533.75
	11/10/2020		(a)	66.20	(a)	3,530.60
	5/7/2021		(a)	65.78	(a)	3,531.02
	11/10/2021		(a)	64.45	(a)	3,532.35

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-26	3/10/2009	3597.75 (c)	(a)	50.11	(a)	3,547.64
	10/8/2009		(a)	52.35	(a)	3,545.40
	3/22/2010		(a)	50.52	(a)	3,547.23
	4/17/2011		(a)	50.45	(a)	3,547.30
	12/22/2011		(a)	51.70	(a)	3,546.05
	4/17/2012		(a)	51.24	(a)	3,546.51
	10/15/2012		(a)	52.55	(a)	3,545.20
	1/22/2013		(a)	51.95	(a)	3,545.80
	4/15/2013		(a)	51.70	(a)	3,546.05
	11/3/2013	3598.43 (h)	(a)	52.22	(a)	3,546.21
	4/30/2014		(a)	51.86	(a)	3,546.57
	11/19/2014		(a)	52.21	(a)	3,546.22
	4/21/2015		(a)	50.91	(a)	3,547.52
	11/3/2015		(a)	50.61	(a)	3,547.82
	4/28/2016		(a)	50.73	(a)	3,547.70
	11/16/2016		(a)	51.62	(a)	3,546.81
	5/22/2017		(a)	51.03	(a)	3,547.40
	11/13/2017		(a)	52.42	(a)	3,546.01
	6/1/2018		(a)	51.52	(a)	3,546.91
	11/6/2018		(a)	49.89	(a)	3,548.54
	6/24/2019		(a)	49.77	(a)	3,548.66
	1/6/2020		(a)	50.10	(a)	3,548.33
	5/13/2020		(a)	50.43	(a)	3,548.00
	11/9/2020		(a)	51.40	(a)	3,547.03
	5/7/2021		(a)	51.41	(a)	3,547.02
	11/10/2021		(a)	50.18	(a)	3,548.25
MW-27	3/10/2009	3615.11 (d)	67.85	68.18	0.33	3,547.18
	10/8/2009		68.38	68.89	0.51	3,546.61
	1/26/2010		68.48	68.88	0.40	3,546.53
	3/22/2010		68.31	68.73	0.42	3,546.70
	4/17/2011		68.10	68.26	0.16	3,546.97
	12/22/2011		68.21	68.35	0.14	3,546.87
	4/17/2012		67.38	67.52	0.14	3,547.70
	10/15/2012		68.31	68.54	0.23	3,546.74
	1/22/2013		68.45	68.67	0.22	3,546.61
	4/15/2013		65.92	67.07	1.15	3,548.91
	5/16/2013		68.47	69.77	1.30	3,546.33
	11/3/2013	3615.76 (h)	(a)	68.19	(a)	3,547.57
	11/13/2013		68.29	68.30	0.01	3,547.47
	4/30/2014		68.61	68.63	0.02	3,547.15
	11/19/2014		68.96	68.97	0.01	3,546.80
	4/20/2015		68.96	68.97	0.01	3,546.80
	11/3/2015		(a)	69.07	(a)	3,546.69
	4/27/2016		(a)	69.18	(a)	3,546.58
	11/15/2016		(a)	69.23	(a)	3,546.53
	5/22/2017		(a)	69.19	(a)	3,546.57
	11/13/2017		(a)	69.55	(a)	3,546.21
	5/30/2018		(a)	69.55	(a)	3,546.21
	11/6/2018		(a)	69.57	(a)	3,546.19
	6/23/2019		(a)	69.43	(a)	3,546.33
	11/19/2019		(a)	69.47	(a)	3,546.29
	5/12/2020		(a)	69.69	(a)	3,546.07
	11/9/2020		(a)	69.72	(a)	3,546.04
	5/7/2021		(a)	68.81	(a)	3,546.95
	11/10/2021		(a)	69.92	(a)	3,545.84

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-28	3/10/2009	3615.90 (d)	(a)	68.70	(a)	3,547.20
	10/8/2009		(a)	68.94	(a)	3,546.96
	3/22/2010		(a)	68.71	(a)	3,547.19
	4/17/2011		(a)	68.95	(a)	3,546.95
	12/22/2011		(a)	69.01	(a)	3,546.89
	4/17/2012		(a)	69.20	(a)	3,546.70
	10/15/2012		(a)	69.30	(a)	3,546.60
	1/22/2013		(a)	69.48	(a)	3,546.42
	4/15/2013		(a)	69.57	(a)	3,546.33
	11/3/2013	3616.62 (h)	(a)	69.61	(a)	3,547.01
	4/30/2014		(a)	69.78	(a)	3,546.84
	11/19/2014		(a)	69.82	(a)	3,546.80
	4/20/2015		(a)	70.21	(a)	3,546.41
	11/3/2015		(a)	70.40	(a)	3,546.22
	4/27/2016		(a)	70.42	(a)	3,546.20
	11/15/2016		(a)	70.47	(a)	3,546.15
	5/22/2017		(a)	70.44	(a)	3,546.18
	11/13/2017		(a)	70.45	(a)	3,546.17
	5/30/2018		(a)	71.72	(a)	3,544.90
	11/6/2018		(a)	70.81	(a)	3,545.81
	6/23/2019		(a)	70.68	(a)	3,545.94
	11/19/2019		(a)	70.53	(a)	3,546.09
	5/12/2020		(a)	71.47	(a)	3,545.15
	11/9/2020		(a)	71.80	(a)	3,544.82
	5/7/2021		(a)	71.10	(a)	3,545.52
	11/10/2021		(a)	71.80	(a)	3,544.82
MW-29	3/10/2009	3613.54 (d)	(a)	67.86	(a)	3,545.68
	10/8/2009		(a)	68.82	(a)	3,544.72
	3/22/2010		(a)	68.04	(a)	3,545.50
	4/17/2011		(a)	67.78	(a)	3,545.76
	12/22/2011		(a)	68.15	(a)	3,545.39
	4/17/2012		(a)	68.41	(a)	3,545.13
	10/15/2012		(a)	68.10	(a)	3,545.44
	1/22/2013		(a)	68.33	(a)	3,545.21
	4/15/2013		(a)	68.34	(a)	3,545.20
	11/3/2013	3614.22 (h)	(a)	69.47	(a)	3,544.75
	4/30/2014		(a)	69.53	(a)	3,544.69
	11/19/2014		(a)	69.67	(a)	3,544.55
	4/20/2015		(a)	69.65	(a)	3,544.57
	11/3/2015		(a)	69.90	(a)	3,544.32
	4/27/2016		(a)	69.78	(a)	3,544.44
	11/15/2016		(a)	70.13	(a)	3,544.09
	5/22/2017		(a)	70.03	(a)	3,544.19
	11/13/2017		(a)	70.45	(a)	3,543.77
	5/30/2018		(a)	72.00	(a)	3,542.22
	11/6/2018		(a)	67.53	(a)	3,546.69
	6/23/2019		(a)	69.99	(a)	3,544.23
	11/19/2019		(a)	70.00	(a)	3,544.22
	5/12/2020		(a)	70.55	(a)	3,543.67
	11/9/2020		(a)	70.95	(a)	3,543.27
	5/7/2021		(a)	70.89	(a)	3,543.33
	11/10/2021		(a)	70.95	(a)	3,543.27

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-30	3/10/2009	3612.63 (d)	(a)	65.83	(a)	3,546.80
	10/8/2009		(a)	65.97	(a)	3,546.66
	3/22/2010		(a)	65.81	(a)	3,546.82
	4/17/2011		(a)	66.13	(a)	3,546.50
	12/22/2011		(a)	66.20	(a)	3,546.43
	4/17/2012		(a)	66.30	(a)	3,546.33
	10/15/2012		(a)	66.48	(a)	3,546.15
	1/22/2013		(a)	66.61	(a)	3,546.02
	4/15/2013		(a)	66.57	(a)	3,546.06
	11/3/2013	3613.33 (h)	(a)	66.84	(a)	3,546.49
	4/30/2014		(a)	66.86	(a)	3,546.47
	11/19/2014		(a)	66.97	(a)	3,546.36
	4/20/2015		(a)	70.23	(a)	3,543.10
	11/3/2015		(a)	67.22	(a)	3,546.11
	4/27/2016		(a)	67.21	(a)	3,546.12
	11/15/2016		(a)	67.32	(a)	3,546.01
	5/22/2017		(a)	67.34	(a)	3,545.99
	11/13/2017		(a)	67.59	(a)	3,545.74
	5/30/2018		(a)	67.41	(a)	3,545.92
	11/6/2018		(a)	67.50	(a)	3,545.83
	6/23/2019		(a)	67.62	(a)	3,545.71
	11/19/2019		(a)	67.59	(a)	3,545.74
	5/12/2020		(a)	67.87	(a)	3,545.46
	11/9/2020		(a)	67.90	(a)	3,545.43
	5/7/2021		(a)	67.99	(a)	3,545.34
	11/10/2021		(a)	68.03	(a)	3,545.30
MW-32	3/10/2009	3608.73 (e)	(a)	65.01	(a)	3,543.72
	10/8/2009		(a)	66.29	(a)	3,542.44
	3/22/2010		(a)	65.44	(a)	3,543.29
	4/17/2011		(a)	65.15	(a)	3,543.58
	12/22/2011		(a)	65.42	(a)	3,543.31
	4/17/2012		(a)	66.03	(a)	3,542.70
	10/15/2012		(a)	65.59	(a)	3,543.14
	1/22/2013		(a)	65.94	(a)	3,542.79
	4/15/2013		(a)	66.33	(a)	3,542.40
	11/3/2013	3609.49 (h)	(a)	66.95	(a)	3,542.54
	4/30/2014		(a)	67.41	(a)	3,542.08
	11/19/2014		(a)	67.34	(a)	3,542.15
	4/20/2015		(a)	67.08	(a)	3,542.41
	11/3/2015		(a)	67.51	(a)	3,541.98
	4/27/2016		(a)	67.16	(a)	3,542.33
	11/15/2016		(a)	67.46	(a)	3,542.03
	5/22/2017		(a)	67.50	(a)	3,541.99
	11/13/2017		(a)	67.77	(a)	3,541.72
	5/30/2018		(a)	67.62	(a)	3,541.87
	11/6/2018		(a)	67.87	(a)	3,541.62
	6/23/2019		(a)	67.84	(a)	3,541.65
	11/19/2019		(a)	67.76	(a)	3,541.73
	5/12/2020		(a)	68.33	(a)	3,541.16
	11/9/2020		(a)	68.55	(a)	3,540.94
	5/7/2021		(a)	68.58	(a)	3,540.91
	11/10/2021		(a)	70.88	(a)	3,538.61

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-33	3/10/2009	3610.55 (e)	(a)	63.81	(a)	3,546.74
	10/8/2009		(a)	63.95	(a)	3,546.60
	3/22/2010		(a)	63.94	(a)	3,546.61
	4/17/2011		(a)	64.28	(a)	3,546.27
	12/22/2011		(a)	64.42	(a)	3,546.13
	4/17/2012		(a)	64.57	(a)	3,545.98
	10/15/2012		(a)	64.63	(a)	3,545.92
	1/22/2013		(a)	64.76	(a)	3,545.79
	4/15/2013		(a)	64.82	(a)	3,545.73
	11/3/2013	3611.37 (h)	(a)	64.86	(a)	3,546.51
	4/30/2014		(a)	65.05	(a)	3,546.32
	11/19/2014		(a)	65.08	(a)	3,546.29
	4/20/2015		(a)	65.20	(a)	3,546.17
	11/3/2015		(a)	65.38	(a)	3,545.99
	4/27/2016		(a)	65.45	(a)	3,545.92
	11/15/2016		(a)	65.55	(a)	3,545.82
	5/22/2017		(a)	65.69	(a)	3,545.68
	11/13/2017		(a)	65.88	(a)	3,545.49
	5/30/2018		(a)	65.75	(a)	3,545.62
	11/6/2018		(a)	65.86	(a)	3,545.51
	6/23/2019		(a)	65.95	(a)	3,545.42
	11/19/2019		(a)	65.95	(a)	3,545.42
	5/12/2020		(a)	66.27	(a)	3,545.10
	11/9/2020		(a)	66.34	(a)	3,545.03
	5/7/2021		(a)	66.32	(a)	3,545.05
	11/10/2021		(a)	66.50	(a)	3,544.87
MW-34	3/10/2009	3605.05 (f)	(a)	61.57	(a)	3,543.48
	10/8/2009		(a)	62.61	(a)	3,542.44
	3/22/2010		(a)	61.93	(a)	3,543.12
	4/17/2011		(a)	61.98	(a)	3,543.07
	12/22/2011		(a)	62.49	(a)	3,542.56
	4/17/2012		(a)	62.77	(a)	3,542.28
	10/15/2012		(a)	62.80	(a)	3,542.25
	1/22/2013		(a)	63.14	(a)	3,541.91
	4/15/2013		(a)	63.25	(a)	3,541.80
	11/3/2013	3605.76 (h)	(a)	63.81	(a)	3,541.95
	4/30/2014		(a)	63.99	(a)	3,541.77
	11/19/2014		(a)	64.08	(a)	3,541.68
	4/20/2015		(a)	63.82	(a)	3,541.94
	11/3/2015		(a)	64.20	(a)	3,541.56
	4/27/2016		(a)	63.73	(a)	3,542.03
	11/15/2016		(a)	64.20	(a)	3,541.56
	5/22/2017		(a)	64.09	(a)	3,541.67
	11/13/2017		(a)	64.51	(a)	3,541.25
	5/30/2018		(a)	64.35	(a)	3,541.41
	11/6/2018		(a)	64.63	(a)	3,541.13
	6/23/2019		(a)	64.51	(a)	3,541.25
	11/19/2019		(a)	64.69	(a)	3,541.07
	5/12/2020		(a)	65.01	(a)	3,540.75
	11/9/2020		(a)	65.30	(a)	3,540.46
	5/7/2021		(a)	65.34	(a)	3,540.42
	11/10/2021		(a)	65.45	(a)	3,540.31

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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-35	3/10/2009	3601.87 (f)	(a)	58.40	(a)	3,543.47
	10/8/2009		(a)	59.42	(a)	3,542.45
	3/22/2010		(a)	58.85	(a)	3,543.02
	4/17/2011		(a)	58.89	(a)	3,542.98
	12/22/2011		(a)	59.60	(a)	3,542.27
	4/17/2012		(a)	59.76	(a)	3,542.11
	10/15/2012		(a)	59.91	(a)	3,541.96
	1/22/2013		(a)	60.14	(a)	3,541.73
	4/15/2013		(a)	60.28	(a)	3,541.59
	11/3/2013	3602.61 (h)	(a)	60.81	(a)	3,541.80
	4/30/2014		(a)	61.17	(a)	3,541.44
	11/19/2014		(a)	61.01	(a)	3,541.60
	4/20/2015		(a)	60.80	(a)	3,541.81
	11/3/2015		(a)	61.17	(a)	3,541.44
	4/27/2016		(a)	60.71	(a)	3,541.90
	11/15/2016		(a)	61.17	(a)	3,541.44
	5/22/2017		(a)	61.05	(a)	3,541.56
	11/13/2017		(a)	61.51	(a)	3,541.10
	5/30/2018		(a)	61.72	(a)	3,540.89
	11/6/2018		(a)	61.99	(a)	3,540.62
	6/23/2019		(a)	61.63	(a)	3,540.98
	11/19/2019		(a)	62.21	(a)	3,540.40
	5/12/2020		(a)	62.30	(a)	3,540.31
	11/9/2020		(a)	62.67	(a)	3,539.94
	5/7/2021		(a)	62.67	(a)	3,539.94
	11/10/2021		(a)	62.68	(a)	3,539.93
MW-37	3/10/2009	3599.86 (g)	(a)	56.53	(a)	3,543.33
	10/8/2009		(a)	57.46	(a)	3,542.40
	3/22/2010		(a)	56.98	(a)	3,542.88
	4/17/2011		(a)	57.06	(a)	3,542.80
	12/22/2011		(a)	57.58	(a)	3,542.28
	4/17/2012		(a)	57.88	(a)	3,541.98
	10/15/2012		(a)	58.18	(a)	3,541.68
	1/22/2013		(a)	58.43	(a)	3,541.43
	4/15/2013		(a)	58.47	(a)	3,541.39
	11/3/2013	3600.58 (h)	(a)	58.99	(a)	3,541.59
	11/13/2013		(a)	58.96	(a)	3,541.62
	4/30/2014		(a)	59.20	(a)	3,541.38
	11/19/2014		(a)	59.20	(a)	3,541.38
	4/20/2015		(a)	58.95	(a)	3,541.63
	11/3/2015		(a)	59.31	(a)	3,541.27
	4/27/2016		(a)	58.78	(a)	3,541.80
	11/15/2016		(a)	59.31	(a)	3,541.27
	5/22/2017		(a)	59.13	(a)	3,541.45
	11/13/2017		(a)	59.61	(a)	3,540.97
	5/30/2018		(a)	59.43	(a)	3,541.15
	11/6/2018		(a)	59.76	(a)	3,540.82
	6/23/2019		(a)	59.54	(a)	3,541.04
	11/19/2019		(a)	59.85	(a)	3,540.73
	5/12/2020		(a)	60.08	(a)	3,540.50
	11/9/2020		(a)	60.47	(a)	3,540.11
	5/7/2021		(a)	60.42	(a)	3,540.16
	11/10/2021		(a)	60.32	(a)	3,540.26

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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-39	8/16/2013	3597.38 (h)	(a)	51.64	(a)	3,545.74
	11/3/2013		(a)	51.08	(a)	3,546.30
	4/30/2014		(a)	50.74	(a)	3,546.64
	11/19/2014		(a)	50.69	(a)	3,546.69
	4/21/2015		(a)	49.97	(a)	3,547.41
	11/3/2015		(a)	49.81	(a)	3,547.57
	4/28/2016		(a)	49.96	(a)	3,547.42
	11/16/2016		(a)	50.43	(a)	3,546.95
	5/22/2017		(a)	49.99	(a)	3,547.39
	11/13/2017		(a)	50.82	(a)	3,546.56
	6/1/2018		(a)	50.40	(a)	3,546.98
	11/6/2018		(a)	49.42	(a)	3,547.96
	6/24/2019		(a)	48.97	(a)	3,548.41
	1/6/2020		(a)	49.40	(a)	3,547.98
	5/13/2020		(a)	49.54	(a)	3,547.84
	11/10/2020		(a)	50.50	(a)	3,546.88
	5/7/2021		(a)	50.39	(a)	3,546.99
	11/10/2021		(a)	49.37	(a)	3,548.01
MW-40	8/16/2013	3596.48 (h)	(a)	54.25	(a)	3,542.23
	11/3/2013		(a)	54.21	(a)	3,542.27
	4/30/2014		(a)	53.78	(a)	3,542.70
	11/19/2014		(a)	54.23	(a)	3,542.25
	4/21/2015		(a)	52.91	(a)	3,543.57
	11/3/2015		(a)	53.21	(a)	3,543.27
	4/28/2016		(a)	52.56	(a)	3,543.92
	11/16/2016		(a)	53.55	(a)	3,542.93
	5/22/2017		(a)	52.98	(a)	3,543.50
	11/13/2017		(a)	54.11	(a)	3,542.37
	6/1/2018		(a)	53.60	(a)	3,542.88
	11/6/2018		(a)	54.24	(a)	3,542.24
	6/24/2019		(a)	53.20	(a)	3,543.28
	1/6/2020		(a)	54.30	(a)	3,542.18
	5/13/2020		(a)	54.25	(a)	3,542.23
	11/10/2020		(a)	54.90	(a)	3,541.58
	5/7/2021		(a)	54.72	(a)	3,541.76
	11/10/2021		(a)	54.45	(a)	3,542.03
MW-41	8/16/2013	3601.73 (h)	(a)	56.57	(a)	3,545.16
	11/3/2013		(a)	56.63	(a)	3,545.10
	4/30/2014		(a)	56.76	(a)	3,544.97
	11/19/2014		(a)	56.96	(a)	3,544.77
	4/21/2015		(a)	56.58	(a)	3,545.15
	11/3/2015		(a)	56.61	(a)	3,545.12
	4/28/2016		(a)	56.36	(a)	3,545.37
	11/16/2016		(a)	56.72	(a)	3,545.01
	5/22/2017		(a)	56.58	(a)	3,545.15
	11/13/2017		(a)	57.12	(a)	3,544.61
	6/1/2018		(a)	56.90	(a)	3,544.83
	11/6/2018		(a)	57.15	(a)	3,544.58
	6/24/2019		(a)	56.85	(a)	3,544.88
	1/6/2020		(a)	57.20	(a)	3,544.53
	5/13/2020		(a)	57.00	(a)	3,544.73
	11/10/2020		(a)	57.65	(a)	3,544.08
	5/7/2021		(a)	57.57	(a)	3,544.16
	11/10/2021		(a)	57.52	(a)	3,544.21

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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-42	8/16/2013	3595.21 (h)	(a)	56.42	(a)	3,538.79
	11/3/2013		(a)	56.28	(a)	3,538.93
	4/30/2014		(a)	55.16	(a)	3,540.05
	11/19/2014		(a)	55.25	(a)	3,539.96
	4/21/2015		(a)	53.18	(a)	3,542.03
	11/3/2015		(a)	54.27	(a)	3,540.94
	4/28/2016		(a)	52.95	(a)	3,542.26
	5/22/2017		(a)	53.71	(a)	3,541.50
	11/13/2017		(a)	55.46	(a)	3,539.75
	6/1/2018		(a)	54.55	(a)	3,540.66
	11/6/2018		(a)	55.83	(a)	3,539.38
	6/24/2019		(a)	54.29	(a)	3,540.92
	1/6/2020		(a)	55.58	(a)	3,539.63
	5/13/2020		(a)	54.81	(a)	3,540.40
	11/10/2020		(a)	57.00	(a)	3,538.21
	5/7/2021		(a)	56.50	(a)	3,538.71
	11/10/2021		(a)	55.75	(a)	3,539.46
MPE-7	3/10/2009	NA	(a)	67.79	(a)	NA
	10/8/2009		(a)	69.75	(a)	NA
	3/22/2010		(a)	67.62	(a)	NA
	4/17/2011		(a)	67.15	(a)	NA
	12/22/2011		(a)	67.07	(a)	NA
	4/17/2012		(a)	67.50	(a)	NA
	10/15/2012		(a)	67.44	(a)	NA
	4/15/2013		(a)	67.63	(a)	NA
	11/3/2013	3614.16 (h)	(a)	67.93	(a)	3,546.23
	5/1/2014		(a)	68.07	(a)	3,546.09
	11/20/2014		(a)	68.21	(a)	3,545.95
	11/3/2015		(a)	68.29	(a)	3,545.87
	4/27/2016		(a)	68.36	(a)	3,545.80
	11/15/2016		(a)	68.46	(a)	3,545.70
	2/2/2017		(a)	68.15	(a)	3,546.01
	2/15/2017		(a)	67.50	(a)	3,546.66
	2/25/2017		(a)	65.67	(a)	3,548.49
	3/20/2017		(a)	66.15	(a)	3,548.01
	5/22/2017		(a)	68.53	(a)	3,545.63
	11/13/2017		(a)	68.87	(a)	3,545.29
	5/30/2018		(a)	68.96	(a)	3,545.20
	11/6/2018		(a)	69.06	(a)	3,545.10
	6/23/2019		(a)	68.53	(a)	3,545.63
	11/18/2019		(a)	68.40	(a)	3,545.76
	5/12/2020		(a)	68.78	(a)	3,545.38
	11/9/2020		(a)	68.85	(a)	3,545.31
	5/7/2021		(a)	69.67	(a)	3,544.49
	11/10/2021		(a)	69.25	(a)	3,544.91

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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-8	3/10/2009	NA	(a)	65.06	(a)	NA
	10/8/2009		(a)	65.79	(a)	NA
	3/22/2010		(a)	65.53	(a)	NA
	4/17/2011		(a)	65.30	(a)	NA
	12/22/2011		(a)	65.58	(a)	NA
	4/17/2012		(a)	65.71	(a)	NA
	10/15/2012		(a)	65.62	(a)	NA
	4/15/2013		(a)	65.41	(a)	NA
	11/3/2013	3612.35 (h)	(a)	66.55	(a)	3,545.80
	5/1/2014		(a)	66.47	(a)	3,545.88
	11/20/2014		(a)	66.76	(a)	3,545.59
	11/3/2015		(a)	66.89	(a)	3,545.46
	4/27/2016		(a)	66.65	(a)	3,545.70
	11/15/2016		(a)	67.28	(a)	3,545.07
	2/2/2017		(a)	66.61	(a)	3,545.74
	2/15/2017		(a)	64.57	(a)	3,547.78
	2/25/2017		(a)	63.55	(a)	3,548.80
	3/20/2017		(a)	64.15	(a)	3,548.20
	5/22/2017		(a)	66.87	(a)	3,545.48
	11/13/2017		(a)	67.78	(a)	3,544.57
	5/30/2018		(a)	67.35	(a)	3,545.00
	11/6/2018		(a)	67.70	(a)	3,544.65
	7/24/2019		(a)	66.30	(a)	3,546.05
	11/19/2019		(a)	67.10	(a)	3,545.25
	5/12/2020		(a)	67.55	(a)	3,544.80
	11/9/2020		(a)	67.80	(a)	3,544.55
	5/7/2021		(a)	67.80	(a)	3,544.55
	11/10/2021		(a)	68.05	(a)	3,544.30
MPE-9	3/10/2009	NA	(a)	67.24	(a)	NA
	10/8/2009		(a)	67.79	(a)	NA
	1/26/2010		67.92	67.93	0.01	NA
	3/22/2010		(a)	67.82	(a)	NA
	4/17/2011		(a)	67.49	(a)	NA
	12/22/2011		(a)	67.61	(a)	NA
	4/17/2012		(a)	67.87	(a)	NA
	10/15/2012		(a)	67.70	(a)	NA
	4/15/2013		(a)	67.92	(a)	NA
	11/3/2013	3615.40 (h)	(a)	67.32	(a)	3,548.08
	5/1/2014		(a)	68.11	(a)	3,547.29
	11/20/2014		(a)	68.34	(a)	3,547.06
	11/3/2015		(a)	68.48	(a)	3,546.92
	4/27/2016		(a)	68.61	(a)	3,546.79
	11/15/2016		(a)	68.61	(a)	3,546.79
	2/2/2017		(a)	68.77	(a)	3,546.63
	2/15/2017		(a)	66.90	(a)	3,548.50
	2/25/2017		(a)	66.68	(a)	3,548.72
	3/20/2017		(a)	66.95	(a)	3,548.45
	5/22/2017		(a)	68.60	(a)	3,546.80
	11/13/2017		(a)	68.95	(a)	3,546.45
	5/30/2018		(a)	68.91	(a)	3,546.49
	11/6/2018		(a)	69.02	(a)	3,546.38
	6/23/2019		(a)	68.75	(a)	3,546.65
	11/19/2019		(a)	68.84	(a)	3,546.56
	5/12/2020		(a)	69.06	(a)	3,546.34
	11/9/2020		(a)	69.00	(a)	3,546.40
	5/7/2021		(a)	68.98	(a)	3,546.42
	11/10/2021		(a)	69.32	(a)	3,546.08

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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-10	3/10/2009	NA	65.58	66.45	0.87	NA
	3/22/2010		(a)	66.20	(a)	NA
	4/17/2011		65.41	66.85	1.44	NA
	12/22/2011		65.74	66.48	0.74	NA
	4/17/2012		66.05	66.22	0.17	NA
	10/15/2012		66.03	66.88	0.85	NA
	4/15/2013		65.96	66.95	0.99	NA
	11/3/2013	3613.85 (h)	65.71	67.08	1.37	3,547.81
	5/1/2014		66.35	66.36	0.01	3,547.50
	11/20/2014		66.64	67.39	0.75	3,547.03
	4/20/2015		66.48	67.09	0.61	3,547.22
	11/3/2015		66.64	67.21	0.57	3,547.07
	4/27/2016		66.73	67.27	0.54	3,546.99
	11/15/2016		(a)	66.76	(a)	3,547.09
	2/2/2017		66.98	67.95	0.97	3,546.64
	2/15/2017		64.48	66.20	1.72	3,548.96
	2/25/2017		64.40	66.05	1.65	3,549.05
	3/20/2017		64.50	66.65	2.15	3,548.83
	5/22/2017		66.73	67.63	0.90	3,546.90
	11/13/2017		67.04	68.05	1.01	3,546.57
	5/30/2018		67.05	68.11	1.06	3,546.55
	11/6/2018		67.10	68.45	1.35	3,546.43
	6/23/2019		66.50	68.90	2.40	3,546.77
	11/19/2019		66.91	66.92	0.01	3,546.94
	5/12/2020		67.05	67.35	0.30	3,546.50
	11/9/2020		67.10	68.32	1.22	3,546.46
	1/18/2021		66.58	67.70	1.12	3,547.00
	2/10/2021		66.55	67.32	0.77	3,547.12
	3/8/2021		66.52	67.03	0.51	3,547.21
	4/5/2021		66.40	67.22	0.82	3,547.25
	5/7/2021		67.00	67.89	0.89	3,546.64
	6/9/2021		66.89	67.70	0.81	3,546.77
	7/10/2021		66.74	68.05	1.31	3,546.80
	8/2/2021		66.80	68.10	1.30	3,546.74
	9/1/2021		67.00	68.27	1.27	3,546.55
	10/5/2021		67.11	68.37	1.26	3,546.44
	11/3/2021		(a)	70.75	(a)	3,543.10
	11/10/2021		67.55	69.10	1.55	3,545.93
	12/2/2021		67.56	69.00	1.44	3,545.94
MPE-11	3/10/2009	NA	(a)	63.02	(a)	NA
	10/8/2009		(a)	63.81	(a)	NA
	4/17/2011		(a)	62.92	(a)	NA
	12/22/2011		(a)	63.21	(a)	NA
	4/17/2012		(a)	63.44	(a)	NA
	10/15/2012		(a)	63.73	(a)	NA
	4/15/2013		(a)	63.63	(a)	NA
	11/3/2013	3610.37 (h)	(a)	64.11	(a)	3,546.26
	5/1/2014		(a)	64.06	(a)	3,546.31
	11/20/2014		(a)	64.35	(a)	3,546.02
	4/20/2015		(a)	64.11	(a)	3,546.26
	11/3/2015		(a)	64.65	(a)	3,545.72
	4/27/2016		(a)	64.51	(a)	3,545.86
	11/15/2016		(a)	65.17	(a)	3,545.20
	2/2/2017		(a)	64.29	(a)	3,546.08
	2/15/2017		(a)	61.40	(a)	3,548.97
	2/25/2017		(a)	60.84	(a)	3,549.53
	3/20/2017		(a)	61.45	(a)	3,548.92
	5/22/2017		(a)	64.54	(a)	3,545.83
	11/13/2017		(a)	65.51	(a)	3,544.86
	5/30/2018		(a)	64.92	(a)	3,545.45
	11/6/2018		(a)	65.34	(a)	3,545.03
	6/23/2019		(a)	64.48	(a)	3,545.89

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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-11	11/19/2019		(a)	64.89	(a)	3,545.48
	5/12/2020		(a)	65.05	(a)	3,545.32
	11/9/2020		(a)	65.25	(a)	3,545.12
	5/7/2021		(a)	65.32	(a)	3,545.05
	11/10/2021		(a)	65.72	(a)	3,544.65
MPE-12	3/10/2009	NA	64.30	64.60	0.30	NA
	10/8/2009		65.24	65.45	0.21	NA
	1/26/2010		64.75	65.12	0.37	NA
	3/22/2010		64.55	64.60	0.05	NA
	4/17/2011		64.32	64.47	0.15	NA
	12/22/2011		(a)	64.61	(a)	NA
	4/17/2012		(a)	64.78	(a)	NA
	10/15/2012		(a)	65.11	(a)	NA
	4/15/2013		64.81	64.83	0.02	NA
	11/3/2013	3612.51 (h)	(a)	64.81	(a)	3,547.70
	5/1/2014		65.14	65.15	0.01	3,547.36
	11/20/2014		67.07	67.27	0.20	3,545.24
	4/20/2015		(a)	65.32	(a)	3,547.19
	11/3/2015		(a)	65.41	(a)	3,547.10
	4/27/2016		65.50	65.80	0.30	3,548.28
	11/15/2016		65.69	66.38	0.69	3,547.99
	5/22/2017		(a)	65.60	(a)	3,546.91
	7/14/2017		63.72	63.90	0.18	3,548.75
	7/28/2017		63.58	64.40	0.82	3,548.73
	8/7/2017		(a)	65.59	(a)	3,546.92
	9/9/2017		62.78	63.83	1.05	3,549.48
	11/13/2017		65.83	66.85	1.02	3,546.44
	5/31/2018		65.90	66.71	0.81	3,546.42
	11/6/2018		66.00	67.15	1.15	3,546.23
	6/23/2019		65.75	66.17	0.42	3,546.66
	1/6/2020		65.71	66.38	0.67	3,546.64
	5/12/2020		(a)	65.81	(a)	3,546.70
	11/9/2020		(a)	65.91	(a)	3,546.60
	5/7/2021		(a)	66.23	(a)	3,546.28
	11/10/2021		66.22	67.28	1.06	3,546.04
MPE-13	3/10/2009	NA	62.93	63.90	0.97	NA
	10/8/2009		63.65	64.00	0.35	NA
	1/26/2010		63.44	63.75	0.31	NA
	3/22/2010		62.93	63.15	0.22	NA
	4/17/2011		63.08	63.27	0.19	NA
	12/22/2011		(a)	63.32	(a)	NA
	4/17/2012		63.51	63.93	0.42	NA
	10/15/2012		63.91	64.27	0.36	NA
	4/15/2013		63.93	64.19	0.26	NA
	11/3/2013	3610.91 (h)	64.07	64.21	0.14	3,546.81
	5/1/2014		64.15	64.45	0.30	3,546.69
	11/20/2014		64.55	64.66	0.11	3,546.33
	4/20/2015		64.81	65.20	0.39	3,546.01
	11/3/2015		(a)	64.95	(a)	3,545.96
	4/27/2016		(a)	64.73	(a)	3,546.18
	8/28/2016		(a)	NA	(a)	NA
	11/15/2016		(a)	65.61	(a)	3,545.30
	5/22/2017		(a)	64.83	(a)	3,546.08
	7/14/2017		(a)	63.95	(a)	3,546.96
	7/28/2017		(a)	64.25	(a)	3,546.66
	8/7/2017		(a)	66.04	(a)	3,544.87
	9/9/2017		(a)	64.57	(a)	3,546.34
	11/13/2017		(a)	66.42	(a)	3,544.49
	5/31/2018		(a)	65.81	(a)	3,545.10
	11/6/2018		(a)	66.27	(a)	3,544.64
	6/23/2019		(a)	65.95	(a)	3,544.96
	1/6/2020		(a)	65.65	(a)	3,545.26

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-13	5/12/2020		(a)	66.15	(a)	3,544.76
	11/9/2020		(a)	66.50	(a)	3,544.41
	5/7/2021		(a)	66.25	(a)	3,544.66
	11/10/2021		(a)	66.45	(a)	3,544.46
MPE-14	3/10/2009	NA	63.70	63.83	0.13	NA
	10/8/2009		(a)	64.27	(a)	NA
	1/26/2010		(a)	64.08	(a)	NA
	3/22/2010		(a)	63.57	(a)	NA
	4/17/2011		(a)	63.70	(a)	NA
	12/22/2011		(a)	64.05	(a)	NA
	4/17/2012		(a)	64.12	(a)	NA
	10/15/2012		(a)	64.75	(a)	NA
	4/15/2013		64.40	64.94	0.54	NA
	11/3/2013	3611.31 (h)	64.40	65.87	1.47	3,546.56
	5/1/2014		64.54	65.49	0.95	3,546.54
	11/21/2014		65.20	65.48	0.28	3,546.04
	4/20/2015		64.21	64.26	0.05	3,547.09
	11/3/2015		(a)	65.37	(a)	3,545.94
	4/27/2016		65.34	65.65	0.31	3,545.90
	8/28/2016		(a)	NA	(a)	NA
	11/15/2016		66.35	66.38	0.03	3,544.95
	5/22/2017		65.28	65.67	0.39	3,545.94
	7/14/2017		(a)	71.40	(a)	3,539.91
	7/28/2017		(a)	70.45	(a)	3,540.86
	8/7/2017		(a)	71.75	(a)	3,539.56
	9/9/2017		(a)	72.80	(a)	3,538.51
	11/13/2017		(a)	66.45	(a)	3,544.86
	5/31/2018		65.47	66.30	0.83	3,545.64
	11/6/2018		66.02	66.50	0.48	3,545.17
	6/23/2019		65.42	66.08	0.66	3,545.73
	1/6/2020		65.48	66.30	0.82	3,545.63
	5/12/2020		(a)	65.75	(a)	3,545.56
	11/9/2020		(a)	66.00	(a)	3,545.31
	5/7/2021		68.20	68.50	0.30	3,543.04
	11/10/2021		65.97	68.43	2.46	3,544.75
MPE-15	3/10/2009	NA	(a)	62.40	(a)	NA
	10/8/2009		(a)	62.59	(a)	NA
	3/22/2010		(a)	62.36	(a)	NA
	4/17/2011		(a)	62.20	(a)	NA
	12/22/2011		(a)	62.75	(a)	NA
	4/17/2012		(a)	63.05	(a)	NA
	10/15/2012		(a)	63.05	(a)	NA
	4/15/2013		(a)	63.19	(a)	NA
	11/3/2013	3612.40 (h)	(a)	63.45	(a)	3,548.95
	5/1/2014		(a)	63.70	(a)	3,548.70
	11/21/2014		(a)	63.73	(a)	3,548.67
	4/20/2015		(a)	63.74	(a)	3,548.66
	11/3/2015		(a)	63.96	(a)	3,548.44
	4/27/2016		(a)	64.14	(a)	3,548.26
	11/15/2016		(a)	64.26	(a)	3,548.14
	5/22/2017		(a)	64.28	(a)	3,548.12
	7/14/2017		(a)	62.12	(a)	3,550.28
	7/28/2017		(a)	62.03	(a)	3,550.37
	8/7/2017		(a)	64.17	(a)	3,548.23
	9/9/2017		(a)	64.58	(a)	3,547.82
	11/13/2017		(a)	64.83	(a)	3,547.57
	5/31/2018		(a)	64.53	(a)	3,547.87
	11/6/2018		(a)	64.77	(a)	3,547.63
	6/23/2019		(a)	64.50	(a)	3,547.90
	1/6/2020		(a)	64.58	(a)	3,547.82
	5/12/2020		(a)	64.63	(a)	3,547.77

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-15	11/9/2020		(a)	65.00	(a)	3,547.40
	5/7/2021		(a)	64.81	(a)	3,547.59
	11/10/2021		(a)	65.11	(a)	3,547.29
MPE-16	3/10/2009	NA	64.32	65.75	1.43	NA
	10/8/2009		65.63	Tagged pump	NA	NA
	1/26/2010		64.64	66.30	1.66	NA
	3/22/2010		64.27	66.21	1.94	NA
	4/17/2011		64.25	65.18	0.93	NA
	12/22/2011		64.61	65.79	1.18	NA
	4/17/2012		64.74	67.17	2.43	NA
	10/15/2012		64.89	67.41	2.52	NA
	4/15/2013		64.80	66.55	1.75	NA
	11/3/2013	3613.14 (h)	64.65	67.06	2.41	3,547.91
	5/1/2014		65.27	67.19	1.92	3,547.41
	11/20/2014		65.96	67.84	1.88	3,546.73
	4/20/2015		65.23	66.56	1.33	3,547.59
	11/3/2015		(a)	66.59	(a)	3,546.55
	4/27/2016		66.28	67.03	0.75	3,546.68
	8/28/2016		67.24	67.66	0.42	3,545.80
	11/15/2016		67.17	67.90	0.73	3,545.79
	5/22/2017		66.21	67.10	0.89	3,546.72
	7/14/2017		71.94	71.95	0.01	3,541.20
	7/28/2017		70.60	70.61	0.01	3,542.54
	8/7/2017		(a)	71.85	(a)	3,541.29
	9/9/2017		(a)	71.92	(a)	3,541.22
	11/13/2017		67.80	67.90	0.10	3,545.32
	5/31/2018		67.85	69.46	1.61	3,544.90
	11/6/2018		67.38	67.95	0.57	3,545.62
	6/23/2019		67.84	68.85	1.01	3,545.06
	1/6/2020		67.75	69.75	2.00	3,544.91
	5/12/2020		66.72	67.80	1.08	3,546.16
	11/9/2020		68.54	70.13	1.59	3,544.22
	1/18/2021		67.57	69.35	1.78	3,545.14
	2/10/2021		67.25	68.47	1.22	3,545.60
	3/8/2021		67.30	68.59	1.29	3,545.53
	4/5/2021		65.36	66.37	1.01	3,547.54
	5/7/2021		68.37	69.50	1.13	3,544.50
	6/9/2021		67.37	67.70	0.33	3,545.69
	7/10/2021		66.67	67.64	0.97	3,546.24
	8/2/2021		68.17	69.55	1.38	3,544.64
	9/1/2021		67.50	68.05	0.55	3,545.51
	10/5/2021		67.73	67.75	0.02	3,545.41
	11/3/2021		67.65	67.90	0.25	3,545.43
	11/10/2021		67.55	67.80	0.25	3,545.53
	12/2/2021		67.55	67.81	0.26	3,545.53

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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)
MPE-17	3/10/2009	NA	64.80	65.07	0.27	NA
	10/8/2009		65.48	65.55	0.07	NA
	1/26/2010		65.19	65.22	0.03	NA
	3/22/2010		(a)	64.77	(a)	(a)
	4/17/2011		(a)	64.93	(a)	(a)
	12/22/2011		(a)	65.37	(a)	(a)
	4/17/2012		65.22	65.37	0.15	(a)
	10/15/2012		65.95	66.81	0.86	(a)
	4/15/2013		65.62	66.06	0.44	(a)
	11/3/2013	3612.75 (h)	65.63	67.49	1.86	3,546.67
	5/1/2014		65.75	66.45	0.70	3,546.83
	11/21/2014		66.15	66.64	0.49	3,546.48
	4/20/2015		66.08	67.38	1.30	3,546.36
	11/3/2015		(a)	66.88	(a)	3,545.87
	4/27/2016		66.71	66.72	0.01	3,546.04
	8/28/2016		(a)	67.81	(a)	3,544.94
	11/16/2016		67.84	67.90	0.06	3,544.90
	5/22/2017		66.60	66.95	0.35	3,546.07
	7/14/2017		(a)	71.15	(a)	3,541.60
	7/28/2017		(a)	71.11	(a)	3,541.64
	8/7/2017		(a)	71.12	(a)	3,541.63
	9/9/2017		(a)	71.15	(a)	3,541.60
	11/13/2017		68.20	68.35	0.15	3,544.51
	5/31/2018		67.15	67.30	0.15	3,545.56
	11/6/2018		67.68	67.75	0.07	3,545.05
	6/24/2019		66.90	67.10	0.20	3,545.80
	1/6/2020		67.00	67.15	0.15	3,545.71
	5/12/2020		(a)	67.30	(a)	3,545.45
	11/9/2020		70.28	70.35	0.07	3,542.45
	1/18/2021		(a)	71.30	(a)	3,541.45
	2/10/2021		67.43	67.75	0.32	3,545.24
	3/8/2021		67.55	67.80	0.25	3,545.14
	4/5/2021		(a)	78.28	(a)	3,534.47
	5/7/2021		(a)	72.62	(a)	3,540.13
	6/9/2021		(a)	71.10	(a)	3,541.65
	7/10/2021		(a)	70.43	(a)	3,542.32
	8/2/2021		(a)	71.58	(a)	3,541.17
	9/1/2021		(a)	73.25	(a)	3,539.50
	10/5/2021		(a)	73.33	(a)	3,539.42
	11/3/2021		(a)	71.60	(a)	3,541.15
	11/10/2021		(a)	71.62	(a)	3,541.13
	12/2/2021		(a)	71.62	(a)	3,541.13

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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-18	3/10/2009	NA	(a)	61.65	(a)	NA
	10/8/2009		(a)	61.93	(a)	NA
	3/22/2010		(a)	61.44	(a)	NA
	4/17/2011		(a)	61.70	(a)	NA
	12/22/2011		(a)	62.19	(a)	NA
	4/17/2012		(a)	62.39	(a)	NA
	10/15/2012		(a)	62.78	(a)	NA
	4/15/2013		(a)	62.64	(a)	NA
	11/3/2013	3611.12 (h)	(a)	62.93	(a)	3,548.19
	5/1/2014		(a)	63.07	(a)	3,548.05
	11/21/2014		(a)	63.04	(a)	3,548.08
	4/20/2015		(a)	62.97	(a)	3,548.15
	11/3/2015		(a)	63.28	(a)	3,547.84
	4/27/2016		(a)	63.45	(a)	3,547.67
	11/16/2016		(a)	63.61	(a)	3,547.51
	5/22/2017		(a)	63.43	(a)	3,547.69
	7/14/2017		(a)	62.28	(a)	3,548.84
	7/28/2017		(a)	62.43	(a)	3,548.69
	8/7/2017		(a)	64.21	(a)	3,546.91
	9/9/2017		(a)	64.53	(a)	3,546.59
	11/13/2017		(a)	64.32	(a)	3,546.80
	5/30/2018		(a)	63.58	(a)	3,547.54
	11/6/2018		(a)	64.03	(a)	3,547.09
	6/24/2019		(a)	63.42	(a)	3,547.70
	1/6/2020		(a)	63.51	(a)	3,547.61
	5/12/2020		(a)	63.65	(a)	3,547.47
	11/9/2020		(a)	64.27	(a)	3,546.85
	5/7/2021		(a)	64.12	(a)	3,547.00
	11/10/2021		(a)	64.31	(a)	3,546.81
MPE-19	3/10/2009	NA	(a)	65.02	(a)	NA
	10/8/2009		(a)	65.54	(a)	NA
	3/22/2010		(a)	65.14	(a)	NA
	4/17/2011		(a)	65.11	(a)	NA
	12/22/2011		(a)	65.54	(a)	NA
	4/17/2012		(a)	65.53	(a)	NA
	10/15/2012		(a)	65.91	(a)	NA
	4/15/2013		(a)	66.03	(a)	NA
	11/3/2013	3614.46 (h)	(a)	66.05	(a)	3,548.41
	5/1/2014		(a)	66.08	(a)	3,548.38
	11/21/2014		(a)	66.62	(a)	3,547.84
	4/20/2015		(a)	66.16	(a)	3,548.30
	11/3/2015		(a)	66.50	(a)	3,547.96
	4/27/2016		(a)	66.31	(a)	3,548.15
	11/16/2016		(a)	66.77	(a)	3,547.69
	5/22/2017		(a)	66.40	(a)	3,548.06
	7/14/2017		(a)	63.95	(a)	3,550.51
	7/28/2017		(a)	64.17	(a)	3,550.29
	8/7/2017		(a)	62.26	(a)	3,552.20
	9/9/2017		(a)	63.82	(a)	3,550.64
	11/13/2017		(a)	67.37	(a)	3,547.09
	5/31/2018		(a)	66.88	(a)	3,547.58
	11/6/2018		(a)	67.04	(a)	3,547.42
	6/24/2019		(a)	66.33	(a)	3,548.13
	1/6/2020		(a)	66.40	(a)	3,548.06
	5/12/2020		(a)	66.48	(a)	3,547.98
	11/9/2020		(a)	67.12	(a)	3,547.34
	5/7/2021		(a)	65.00	(a)	3,549.46
	11/10/2021		(a)	66.93	(a)	3,547.53

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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)
MPE-20	3/10/2009	NA	62.58	64.52	1.94	NA
	10/8/2009		62.45	65.34	2.89	NA
	1/26/2010		62.28	65.10	2.82	NA
	3/22/2010		61.58	64.81	3.23	NA
	4/17/2011		62.10	64.45	2.35	NA
	12/22/2011		62.70	64.58	1.88	NA
	4/17/2012		63.09	64.86	1.77	NA
	10/15/2012		64.41	65.23	0.82	NA
	4/15/2013		63.52	64.98	1.46	NA
	11/3/2013	3611.40 (h)	63.37	64.28	0.91	3,547.81
	5/1/2014		63.64	65.23	1.59	3,547.38
	11/21/2014		65.59	66.47	0.88	3,545.60
	4/21/2015		63.75	64.77	1.02	3,547.41
	11/3/2015		64.81	66.00	1.19	3,546.30
	4/27/2016		64.73	65.91	1.18	3,546.39
	8/28/2016		66.07	66.09	0.02	3,545.33
	11/16/2016		65.75	67.05	1.30	3,545.34
	5/22/2017		64.57	65.60	1.03	3,546.58
	7/14/2017		(a)	70.20	(a)	3,541.20
	7/28/2017		(a)	71.99	(a)	3,539.41
	8/7/2017		(a)	70.27	(a)	3,541.13
	9/9/2017		(a)	70.35	(a)	3,541.05
	11/13/2017		66.13	67.27	1.14	3,545.00
	5/31/2018		(a)	65.75	(a)	3,545.65
	6/24/2019		(a)	69.23	(a)	3,542.17
	1/6/2020		64.38	64.50	0.12	3,546.99
	5/12/2020		(a)	64.50	(a)	3,546.90
	11/9/2020		(a)	67.26	(a)	3,544.14
	5/7/2021		68.17	68.20	0.03	3,543.22
	11/10/2021		65.20	66.68	1.48	3,545.84
MPE-21	3/10/2009	NA	(a)	56.57	(a)	NA
	10/8/2009		(a)	57.13	(a)	NA
	1/26/2010		(a)	57.71	(a)	NA
	3/22/2010		(a)	57.68	(a)	NA
	4/17/2011		(a)	57.30	(a)	NA
	12/22/2011		(a)	57.82	(a)	NA
	4/17/2012		58.20	58.31	0.11	NA
	10/15/2012		58.02	58.07	0.05	NA
	4/15/2013		57.73	59.11	1.38	NA
	11/3/2013	3607.52 (h)	56.94	57.82	0.88	3,550.37
	5/1/2014		58.32	58.75	0.43	3,549.10
	11/21/2014		58.71	59.97	1.26	3,548.51
	4/21/2015		56.73	57.95	1.22	3,550.50
	11/3/2015		(a)	59.13	(a)	3,548.39
	4/27/2016		(a)	59.50	(a)	3,548.02
	8/28/2016		(a)	59.24	(a)	3,548.28
	11/16/2016		(a)	59.38	(a)	3,548.14
	5/22/2017		(a)	59.45	(a)	3,548.07
	7/14/2017		(a)	65.99	(a)	3,541.53
	7/28/2017		(a)	65.95	(a)	3,541.57
	8/7/2017		(a)	66.08	(a)	3,541.44
	9/9/2017		(a)	66.95	(a)	3,540.57
	11/13/2017		(a)	60.90	(a)	3,546.62
	5/30/2018		(a)	59.60	(a)	3,547.92
	11/6/2018		(a)	60.08	(a)	3,547.44
	6/24/2019		(a)	60.95	(a)	3,546.57
	1/6/2020		(a)	66.90	(a)	3,540.62
	5/12/2020		(a)	60.10	(a)	3,547.42
	11/9/2020		(a)	61.55	(a)	3,545.97
	5/7/2021		(a)	63.03	(a)	3,544.49
	11/10/2021		(a)	63.05	(a)	3,544.47

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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-22	3/10/2009	NA	(a)	67.17	(a)	NA
	10/8/2009		(a)	67.68	(a)	NA
	1/26/2010		(a)	67.33	(a)	NA
	3/22/2010		(a)	66.99	(a)	NA
	4/17/2011		(a)	67.25	(a)	NA
	12/22/2011		(a)	67.61	(a)	NA
	4/17/2012		(a)	67.44	(a)	NA
	10/18/2012		(a)	68.20	(a)	NA
	4/15/2013		(a)	67.87	(a)	NA
	11/3/2013	3616.80 (h)	(a)	68.28	(a)	3,548.52
	5/1/2014		(a)	68.12	(a)	3,548.68
	11/21/2014		(a)	68.59	(a)	3,548.21
	4/21/2015		(a)	68.23	(a)	3,548.57
	11/3/2015		(a)	68.24	(a)	3,548.56
	4/29/2016		(a)	68.14	(a)	3,548.66
	11/16/2016		(a)	69.13	(a)	3,547.67
	5/22/2017		(a)	68.50	(a)	3,548.30
	11/6/2017		(a)	68.68	(a)	3,548.12
	11/13/2017		(a)	68.78	(a)	3,548.02
	6/1/2018		(a)	68.42	(a)	3,548.38
	11/6/2018		(a)	68.80	(a)	3,548.00
	6/24/2019		(a)	68.16	(a)	3,548.64
	1/5/2020		(a)	68.19	(a)	3,548.61
	5/13/2020		(a)	68.23	(a)	3,548.57
	11/10/2020		(a)	68.70	(a)	3,548.10
	5/7/2021		(a)	68.61	(a)	3,548.19
	11/10/2021		(a)	68.50	(a)	3,548.30
MPE-23	3/10/2009	NA	62.85	64.00	1.15	NA
	10/8/2009		62.58	64.90	2.32	NA
	1/26/2010		62.84	63.98	1.14	NA
	3/22/2010		61.94	62.58	0.64	NA
	4/17/2011		62.31	62.78	0.47	NA
	12/22/2011		62.45	64.70	2.25	NA
	4/17/2012		62.57	64.58	2.01	NA
	10/18/2012		63.35	65.36	2.01	NA
	4/15/2013		62.78	65.30	2.52	NA
	11/3/2013	3612.44 (h)	63.45	65.52	2.07	3,548.49
	5/1/2014		63.41	64.65	1.24	3,548.73
	11/21/2014		63.97	65.57	1.60	3,548.09
	4/21/2015		63.29	65.43	2.14	3,548.64
	11/3/2015		(a)	64.07	(a)	3,548.37
	4/29/2016		63.97	64.00	0.03	3,548.46
	8/28/2016		63.74	66.05	2.31	3,548.15
	11/16/2016		63.97	66.00	2.03	3,547.98
	5/22/2017		63.62	65.03	1.41	3,548.48
	11/6/2017		(a)	72.45	(a)	3,539.99
	11/13/2017		(a)	72.45	(a)	3,539.99
	6/1/2018		64.00	64.75	0.75	3,547.69
	11/6/2018		(a)	65.11	(a)	3,547.33
	6/24/2019		63.55	63.56	0.01	3,548.88
	1/5/2020		(a)	63.55	(a)	3,548.89
	5/13/2020		(a)	63.81	(a)	3,548.63
	11/10/2020		(a)	64.85	(a)	3,547.59
	5/7/2021		(a)	72.16	(a)	3,540.28
	11/10/2021		(a)	64.69	(a)	3,547.75

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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)
MPE-24	3/10/2009	NA	57.55	58.93	1.38	3,547.33
	10/8/2009		57.20	59.52	2.32	NA
	1/26/2010		57.65	59.92	2.27	NA
	3/22/2010		57.41	59.75	2.34	NA
	4/17/2011		57.57	59.57	2.00	NA
	12/22/2011		58.27	60.95	2.68	NA
	4/17/2012		58.43	61.11	2.68	NA
	10/15/2012		58.10	64.85	6.75	NA
	4/15/2013		58.08	63.22	5.14	NA
	11/3/2013	3608.45 (h)	58.33	62.96	4.63	3,549.01
	5/1/2014		58.61	63.91	5.30	3,548.57
	11/21/2014		58.58	65.93	7.35	3,548.11
	4/21/2015		58.49	63.30	4.81	3,548.81
	11/3/2015		60.03	60.10	0.07	3,548.40
	4/29/2016		60.12	60.20	0.08	3,548.31
	11/16/2016		59.46	63.22	3.76	3,548.09
	5/22/2017		59.80	61.40	1.60	3,548.27
	11/6/2017		(a)	71.71	(a)	3,536.74
	11/13/2017		61.21	61.23	0.02	3,547.24
	5/31/2018		(a)	59.71	(a)	3,548.74
	11/6/2018		(a)	59.88	(a)	3,548.57
	6/24/2019		(a)	59.27	(a)	3,549.18
	1/6/2020		(a)	59.60	(a)	3,548.85
	5/12/2020		(a)	59.60	(a)	3,548.85
	11/9/2020		(a)	60.55	(a)	3,547.90
	5/7/2021		(a)	60.57	(a)	3,547.88
	11/10/2021		(a)	60.60	(a)	3,547.85
MPE-25	3/10/2009	NA	(a)	67.13	(a)	NA
	10/8/2009		(a)	67.79	(a)	NA
	1/26/2010		(a)	67.40	(a)	NA
	3/22/2010		(a)	67.07	(a)	NA
	4/17/2011		(a)	67.32	(a)	NA
	12/22/2011		(a)	67.79	(a)	NA
	4/17/2012		(a)	67.50	(a)	NA
	10/18/2012		(a)	68.32	(a)	NA
	4/15/2013		(a)	68.03	(a)	NA
	11/3/2013	3616.99 (h)	(a)	68.46	(a)	3,548.53
	5/1/2014		(a)	68.20	(a)	3,548.79
	11/21/2014		(a)	68.74	(a)	3,548.25
	4/21/2015		(a)	68.35	(a)	3,548.64
	11/3/2015		(a)	68.27	(a)	3,548.72
	4/29/2016		(a)	68.20	(a)	3,548.79
	11/16/2016		(a)	69.15	(a)	3,547.84
	5/22/2017		(a)	68.27	(a)	3,548.72
	11/6/2017		(a)	65.10	(a)	3,551.89
	11/13/2017		(a)	69.10	(a)	3,547.89
	6/1/2018		(a)	68.65	(a)	3,548.34
	11/6/2018		(a)	68.82	(a)	3,548.17
	6/24/2019		(a)	67.40	(a)	3,549.59
	1/5/2020		(a)	68.05	(a)	3,548.94
	5/13/2020		(a)	68.25	(a)	3,548.74
	11/10/2020		(a)	68.87	(a)	3,548.12
	5/7/2021		(a)	68.73	(a)	3,548.26
	11/10/2021		(a)	68.25	(a)	3,548.74

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)
MPE-26	3/10/2009	NA	64.54	64.86	0.32	NA
	10/8/2009		65.30	65.70	0.40	NA
	1/26/2010		64.84	65.32	0.48	NA
	3/22/2010		64.46	65.04	0.58	NA
	4/17/2011		(a)	64.70	(a)	NA
	12/22/2011		65.19	65.63	0.44	NA
	4/17/2012		64.92	65.48	0.56	NA
	10/15/2012		65.60	66.10	0.50	NA
	4/15/2013		65.54	66.05	0.51	NA
	11/3/2013	3614.30 (h)	65.78	65.82	0.04	3,548.51
	5/1/2014		65.71	65.96	0.25	3,548.53
	11/21/2014		66.28	66.63	0.35	3,547.94
	4/21/2015		65.75	66.04	0.29	3,548.48
	11/3/2015		65.66	66.02	0.36	3,548.55
	4/29/2016		65.62	65.98	0.36	3,548.59
	11/16/2016		66.63	67.05	0.42	3,547.57
	5/22/2017		65.98	66.30	0.32	3,548.24
	11/6/2017		(a)	62.57	(a)	3,551.73
	11/13/2017		66.64	66.67	0.03	3,547.65
	6/1/2018		66.10	66.12	0.02	3,548.20
	11/6/2018		(a)	66.18	(a)	3,548.12
	6/24/2019		(a)	66.49	(a)	3,547.81
	1/5/2020		(a)	65.53	(a)	3,548.77
	5/13/2020		(a)	65.70	(a)	3,548.60
	11/10/2020		(a)	66.28	(a)	3,548.02
	5/7/2021		(a)	66.20	(a)	3,548.10
	11/10/2021		(a)	66.05	(a)	3,548.25
MPE-27	3/10/2009	NA	62.65	64.96	2.31	NA
	10/8/2009		63.05	69.05	6.00	NA
	1/26/2010		(a)	62.92	(a)	NA
	3/22/2010		62.60	64.38	1.78	NA
	4/17/2011		62.54	tag top of pump	NA	NA
	12/22/2011		(a)	62.81	(a)	NA
	4/17/2012		63.34	63.63	0.29	NA
	10/15/2012		64.62	65.38	0.76	NA
	4/15/2013		(a)	tag top of pump	NA	NA
	11/3/2013	3612.96 (h)	62.92	65.70	2.78	3,549.37
	5/1/2014		63.75	67.31	3.56	3,548.36
	11/21/2014		(a)	65.48	(a)	3,547.48
	4/21/2015		63.85	65.70	1.85	3,548.67
	11/3/2015		64.37	64.40	0.03	3,548.58
	4/29/2016		64.35	64.37	0.02	3,548.61
	8/28/2016		(a)	65.45	(a)	3,547.51
	11/16/2016		(a)	65.41	(a)	3,547.55
	5/22/2017		64.58	64.70	0.12	3,548.35
	11/6/2017		(a)	75.10	(a)	3,537.86
	11/13/2017		67.95	68.27	0.32	3,544.93
	6/1/2018		64.40	65.21	0.81	3,547.75
	11/6/2018		(a)	64.35	(a)	3,548.61
	6/24/2019		(a)	62.95	(a)	3,550.01
	1/5/2020		63.61	64.85	1.24	3,549.05
	5/13/2020		63.58	65.55	1.97	3,548.91
	11/10/2020		65.12	65.17	0.05	3,547.83
	1/18/2021		(a)	64.00	(a)	3,548.96
	2/10/2021		62.12	64.00	1.88	3,550.39
	3/8/2021		62.55	64.29	1.74	3,549.99
	4/5/2021		(a)	75.15	(a)	3,537.81
	5/7/2021		67.47	67.50	0.03	3,545.48
	6/9/2021		(a)	73.84	(a)	3,539.12
	7/10/2021		(a)	67.00	(a)	3,545.96
	8/2/2021		(a)	74.40	(a)	3,538.56
	9/1/2021		(a)	73.55	(a)	3,539.41

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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-27	10/5/2021		(a)	73.66	(a)	3,539.30
	11/3/2021		(a)	74.41	(a)	3,538.55
	11/10/2021		(a)	65.60	(a)	3,547.36
	12/2/2021		(a)	65.61	(a)	3,547.35
MPE-28	3/10/2009	NA	55.01	59.20	4.19	NA
	10/8/2009		56.72	60.21	3.49	NA
	1/26/2010		56.12	59.78	3.66	NA
	3/22/2010		55.50	59.20	3.70	NA
	4/17/2011		(a)	56.78	(a)	NA
	12/22/2011		(a)	58.61	(a)	NA
	4/17/2012		(a)	57.45	(a)	NA
	10/15/2012		(a)	58.30	(a)	NA
	4/15/2013		57.85	57.88	0.03	NA
	11/3/2013	3607.49 (h)	(a)	58.39	(a)	3,549.10
	5/1/2014		58.32	58.40	0.08	3,554.62
	11/21/2014		(a)	60.74	(a)	3,546.75
	4/21/2015		(a)	57.72	(a)	3,549.77
	11/3/2015		57.60	57.61	0.01	3,555.36
	4/28/2016		57.38	57.44	0.06	3,555.57
	11/16/2016		NA	NA	NA	NA
	5/22/2017		57.65	57.80	0.15	3,555.27
	11/6/2017		(a)	56.80	(a)	3,550.69
	11/13/2017		(a)	58.33	(a)	3,549.16
	6/1/2018		(a)	57.74	(a)	3,549.75
	11/6/2018		(a)	58.12	(a)	3,549.37
	6/24/2019		(a)	56.68	(a)	3,550.81
	1/6/2020		(a)	56.90	(a)	3,550.59
	5/13/2020		(a)	57.11	(a)	3,550.38
	11/10/2020		(a)	58.07	(a)	3,549.42
	5/7/2021		(a)	57.99	(a)	3,549.50
	11/10/2021		57.90	57.92	0.02	3,555.06
MPE-29	3/10/2009	NA	(a)	67.35	(a)	NA
	10/8/2009		(a)	68.38	(a)	NA
	3/22/2010		(a)	67.58	(a)	NA
	4/17/2011		(a)	67.73	(a)	NA
	12/22/2011		(a)	68.38	(a)	NA
	4/17/2012		(a)	67.98	(a)	NA
	10/18/2012		(a)	68.95	(a)	NA
	4/15/2013		(a)	68.44	(a)	NA
	11/3/2013	3617.10 (h)	(a)	69.00	(a)	3,548.10
	5/1/2014		(a)	68.68	(a)	3,548.42
	11/21/2014		(a)	69.41	(a)	3,547.69
	4/21/2015		(a)	68.75	(a)	3,548.35
	11/3/2015		(a)	68.65	(a)	3,548.45
	4/29/2016		(a)	68.57	(a)	3,548.53
	11/16/2016		(a)	69.62	(a)	3,547.48
	5/22/2017		(a)	68.65	(a)	3,548.45
	11/6/2017		(a)	69.75	(a)	3,547.35
	11/13/2017		(a)	69.77	(a)	3,547.33
	6/1/2018		(a)	69.10	(a)	3,548.00
	11/6/2018		(a)	69.12	(a)	3,547.98
	6/24/2019		(a)	68.30	(a)	3,548.80
	1/5/2020		(a)	68.31	(a)	3,548.79
	5/13/2020		(a)	68.55	(a)	3,548.55
	11/10/2020		(a)	69.30	(a)	3,547.80
	5/7/2021		(a)	69.03	(a)	3,548.07
	11/10/2021		(a)	68.45	(a)	3,548.65

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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-30	3/10/2009	NA	(a)	64.92	(a)	NA
	10/8/2009		(a)	66.20	(a)	NA
	3/22/2010		(a)	65.41	(a)	NA
	4/17/2011		(a)	65.25	(a)	NA
	12/22/2011		(a)	65.91	(a)	NA
	4/17/2012		(a)	65.78	(a)	NA
	10/18/2012		(a)	66.46	(a)	NA
	4/15/2013		(a)	66.35	(a)	NA
	11/3/2013	3616.01 (h)	(a)	66.93	(a)	3,549.08
	5/1/2014		(a)	66.97	(a)	3,549.04
	11/21/2014		(a)	67.36	(a)	3,548.65
	4/21/2015		(a)	66.56	(a)	3,549.45
	11/3/2015		(a)	66.26	(a)	3,549.75
	4/28/2016		(a)	66.08	(a)	3,549.93
	11/16/2016		(a)	67.38	(a)	3,548.63
	5/22/2017		NA	NA	NA	NA
	11/13/2017		(a)	67.95	(a)	3,548.06
	6/1/2018		(a)	67.37	(a)	3,548.64
	11/6/2018		(a)	67.32	(a)	3,548.69
	6/24/2019		(a)	66.03	(a)	3,549.98
	1/5/2020		(a)	66.08	(a)	3,549.93
	5/13/2020		(a)	65.90	(a)	3,550.11
	11/10/2020		(a)	67.50	(a)	3,548.51
	5/7/2021		(a)	67.32	(a)	3,548.69
	11/10/2021		(a)	66.75	(a)	3,549.26
MPE-31	3/10/2009	NA	63.22	63.24	0.02	NA
	10/8/2009		(a)	65.28	(a)	NA
	1/26/2010		(a)	63.99	(a)	NA
	3/22/2010		63.46	63.47	0.01	NA
	4/17/2011		(a)	63.41	(a)	NA
	12/22/2011		64.22	64.69	0.47	NA
	4/17/2012		64.04	64.45	0.41	NA
	10/18/2012		65.28	65.82	0.54	NA
	4/15/2013		64.16	65.16	1.00	NA
	11/3/2013	3613.18 (h)	64.64	65.11	0.47	3,548.43
	5/1/1994		64.62	65.64	1.02	3,548.32
	11/21/2014		65.79	66.39	0.60	3,547.25
	4/21/2015		64.36	64.98	0.62	3,548.67
	11/3/2015		64.14	64.68	0.54	3,548.91
	4/28/2016		64.98	65.46	0.48	3,548.08
	8/28/2016		(a)	65.89	(a)	3,547.29
	11/16/2016		(a)	65.75	(a)	3,547.43
	5/22/2017		(a)	64.81	(a)	3,548.37
	11/13/2017		(a)	66.45	(a)	3,546.73
	6/1/2018		(a)	65.02	(a)	3,548.16
	11/6/2018		(a)	63.95	(a)	3,549.23
	6/24/2019		(a)	63.98	(a)	3,549.20
	1/5/2020		(a)	64.00	(a)	3,549.18
	5/13/2020		(a)	64.15	(a)	3,549.03
	11/10/2020		(a)	65.32	(a)	3,547.86
	5/7/2021		65.17	65.18	0.01	3,548.01
	11/10/2021		64.61	64.62	0.01	3,548.57

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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)
MPE-32	3/10/2009	NA	57.01	59.81	2.80	NA
	10/8/2009		(a)	62.21	(a)	NA
	1/26/2010		57.90	61.23	3.33	NA
	3/22/2010		(a)	57.30	(a)	NA
	4/17/2011		(a)	57.32	(a)	NA
	12/22/2011		(a)	56.62	(a)	NA
	4/17/2012		58.55	61.08	2.53	NA
	10/15/2012		NA	Tag top of pump	NA	NA
	4/15/2013		59.16	59.35	0.19	NA
	11/3/2013	3607.41 (h)	(a)	60.03	(a)	3,547.38
	5/1/2014		59.65	60.53	0.88	3,547.55
	11/21/2014		(a)	62.50	(a)	3,544.91
	4/21/2015		58.27	61.30	3.03	3,548.41
	11/3/2015		58.66	59.08	0.42	3,548.65
	4/28/2016		59.11	59.65	0.54	3,548.17
	8/28/2016		(a)	61.96	(a)	3,545.45
	11/16/2016		61.22	61.39	0.17	3,546.15
	5/22/2017		58.62	60.75	2.13	3,548.28
	11/13/2017		(a)	62.93	(a)	3,544.48
	6/1/2018		59.82	60.01	0.19	3,547.54
	11/6/2018		(a)	57.15	(a)	3,550.26
	6/24/2019		57.03	59.30	2.27	3,549.84
	1/6/2020		57.70	59.20	1.50	3,549.35
	5/12/2020		58.58	58.62	0.04	3,548.82
	11/9/2020		(a)	59.98	(a)	3,550.26
	5/7/2021		60.60	60.71	0.11	3,546.78
	11/10/2021		58.00	59.00	1.00	3,549.17
MPE-33	3/10/2009	NA	(a)	53.82	(a)	NA
	10/8/2009		(a)	56.63	(a)	NA
	3/22/2010		(a)	54.56	(a)	NA
	4/17/2011		(a)	54.73	(a)	NA
	12/22/2011		(a)	56.65	(a)	NA
	4/17/2012		(a)	55.85	(a)	NA
	10/15/2012		(a)	58.43	(a)	NA
	4/15/2013		(a)	56.43	(a)	NA
	11/3/2013	3603.22 (h)	(a)	57.14	(a)	3,546.08
	5/1/2014		(a)	56.65	(a)	3,546.57
	11/21/2014		(a)	58.46	(a)	3,544.76
	4/21/2015		(a)	54.22	(a)	3,549.00
	11/3/2015		(a)	54.31	(a)	3,548.91
	4/28/2016		(a)	54.47	(a)	3,548.75
	11/16/2016		(a)	57.72	(a)	3,545.50
	5/22/2017		(a)	55.02	(a)	3,548.20
	11/13/2017		(a)	57.40	(a)	3,545.82
	6/1/2018		(a)	56.00	(a)	3,547.22
	11/6/2018		(a)	54.44	(a)	3,548.78
	6/24/2019		(a)	52.67	(a)	3,550.55
	1/6/2020		(a)	53.05	(a)	3,550.17
	5/13/2020		(a)	53.83	(a)	3,549.39
	11/9/2020		(a)	55.30	(a)	3,547.92
	5/7/2021		(a)	55.22	(a)	3,548.00
	11/10/2021		(a)	52.62	(a)	3,550.60

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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-34	3/10/2009	NA	(a)	65.24	(a)	NA
	10/8/2009		(a)	65.78	(a)	NA
	3/22/2010		(a)	65.56	(a)	NA
	4/17/2011		(a)	65.40	(a)	NA
	12/22/2011		(a)	65.76	(a)	NA
	4/17/2012		(a)	65.79	(a)	NA
	10/18/2012		(a)	66.15	(a)	NA
	4/15/2013		(a)	66.20	(a)	NA
	11/3/2013	3616.24 (h)	(a)	66.28	(a)	3,549.96
	5/1/2014		(a)	66.23	(a)	3,550.01
	11/21/2014		(a)	65.89	(a)	3,550.35
	4/21/2015		(a)	65.57	(a)	3,550.67
	11/3/2015		(a)	65.27	(a)	3,550.97
	4/28/2016		(a)	65.10	(a)	3,551.14
	11/16/2016		(a)	65.68	(a)	3,550.56
	5/22/2017		(a)	65.38	(a)	3,550.86
	11/13/2017		(a)	65.70	(a)	3,550.54
	6/1/2018		(a)	65.47	(a)	3,550.77
	11/6/2018		(a)	65.46	(a)	3,550.78
	6/24/2019		(a)	64.75	(a)	3,551.49
	1/5/2020		(a)	64.70	(a)	3,551.54
	5/13/2020		(a)	64.91	(a)	3,551.33
	11/10/2020		(a)	66.32	(a)	3,549.92
	5/7/2021		(a)	66.58	(a)	3,549.66
	11/10/2021		(a)	66.21	(a)	3,550.03
MPE-35	3/10/2009	NA	(a)	59.29	(a)	NA
	10/8/2009		(a)	59.96	(a)	NA
	3/22/2010		(a)	59.36	(a)	NA
	4/17/2011		(a)	59.16	(a)	NA
	12/22/2011		(a)	59.67	(a)	NA
	4/17/2012		(a)	59.80	(a)	NA
	10/15/2012		(a)	60.00	(a)	NA
	4/15/2013		(a)	60.08	(a)	NA
	11/3/2013	3609.95 (h)	59.96	60.32	0.36	3,549.90
	11/13/2013		60.04	60.35	0.31	3,549.84
	5/1/2014		60.08	60.30	0.22	3,549.82
	11/21/2014		59.51	60.04	0.53	3,550.31
	4/21/2015		59.22	60.07	0.85	3,550.53
	11/3/2015		58.45	59.91	1.46	3,551.15
	4/28/2016		58.45	60.85	2.40	3,550.92
	11/16/2016		58.58	61.38	2.80	3,550.70
	5/22/2017		58.70	61.45	2.75	3,550.59
	11/13/2017		59.19	62.05	2.86	3,550.07
	6/1/2018		59.24	61.30	2.06	3,550.22
	11/6/2018		58.75	60.50	1.75	3,550.78
	6/24/2019		58.14	59.15	1.01	3,551.57
	1/6/2020		58.50	60.22	1.72	3,551.04
	5/12/2020		58.73	60.40	1.67	3,550.82
	11/9/2020		(a)	60.23	(a)	3,549.72
	5/7/2021		(a)	62.67	(a)	3,547.28
	11/10/2021		(a)	60.12	(a)	3,549.83

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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)
MPE-36	3/10/2009	NA	(a)	54.45	(a)	NA
	10/8/2009		(a)	57.35	(a)	NA
	3/22/2010		(a)	55.09	(a)	NA
	4/17/2011		(a)	54.78	(a)	NA
	12/22/2011		(a)	56.05	(a)	NA
	4/17/2012		(a)	55.99	(a)	NA
	10/15/2012		(a)	57.20	(a)	NA
	4/15/2013		(a)	56.35	(a)	NA
	11/3/2013	3604.60 (h)	(a)	56.58	(a)	3,548.02
	5/1/2014		(a)	56.78	(a)	3,547.82
	11/21/2014		(a)	53.13	(a)	3,551.47
	4/21/2015		(a)	55.71	(a)	3,548.89
	11/3/2015		(a)	50.73	(a)	3,553.87
	4/28/2016		(a)	55.56	(a)	3,549.04
	11/16/2016		(a)	56.90	(a)	3,547.70
	5/22/2017		(a)	56.13	(a)	3,548.47
	11/13/2017		(a)	58.35	(a)	3,546.25
	6/1/2018		(a)	56.52	(a)	3,548.08
	11/6/2018		(a)	40.74	(a)	3,563.86
	6/24/2019		(a)	53.97	(a)	3,550.63
	1/6/2020		(a)	54.62	(a)	3,549.98
	5/13/2020		(a)	54.79	(a)	3,549.81
	11/9/2020		(a)	56.47	(a)	3,548.13
	5/7/2021		(a)	56.73	(a)	3,547.87
	11/10/2021		(a)	54.92	(a)	3,549.68
MPE-37	3/10/2009	NA	(a)	51.90	(a)	NA
	10/8/2009		(a)	56.51	(a)	NA
	3/22/2010		(a)	52.40	(a)	NA
	4/17/2011		(a)	52.22	(a)	NA
	12/22/2011		(a)	53.48	(a)	NA
	4/17/2012		(a)	53.26	(a)	NA
	10/15/2012		(a)	54.68	(a)	NA
	4/15/2013		(a)	53.63	(a)	NA
	11/3/2013	3601.20 (h)	(a)	54.05	(a)	3,547.15
	5/1/2014		(a)	54.03	(a)	3,547.17
	11/21/2014		(a)	56.17	(a)	3,545.03
	4/21/2015		(a)	53.00	(a)	3,548.20
	11/3/2015		(a)	52.02	(a)	3,549.18
	4/28/2016		(a)	52.61	(a)	3,548.59
	11/16/2016		(a)	54.17	(a)	3,547.03
	5/22/2017		(a)	53.26	(a)	3,547.94
	11/13/2017		(a)	55.83	(a)	3,545.37
	6/1/2018		(a)	53.80	(a)	3,547.40
	11/6/2018		(a)	49.91	(a)	3,551.29
	6/24/2019		(a)	51.55	(a)	3,549.65
	1/6/2020		(a)	52.22	(a)	3,548.98
	5/13/2020		(a)	52.47	(a)	3,548.73
	11/9/2020		(a)	53.77	(a)	3,547.43
	5/7/2021		(a)	53.75	(a)	3,547.45
	11/10/2021		(a)	52.38	(a)	3,548.82

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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)
MPE-38	8/16/2013	3613.81 (h)	63.85	68.88	5.03	3,548.75
	11/3/2013		65.89	68.62	2.73	3,547.26
	5/1/2014		66.14	69.00	2.86	3,546.98
	11/21/2014		67.31	69.85	2.54	3,545.89
	4/21/2015		66.44	68.75	2.31	3,546.82
	11/3/2015		67.25	69.96	2.71	3,545.91
	4/27/2016		66.98	69.80	2.82	3,546.15
	8/28/2016		67.93	70.05	2.12	3,545.37
	11/16/2016		67.87	70.47	2.60	3,545.32
	5/22/2017		67.05	70.05	3.00	3,546.04
	7/14/2017		71.19	71.20	0.01	3,542.62
	7/28/2017		(a)	71.22	(a)	3,542.59
	8/7/2017		(a)	71.10	(a)	3,542.71
	9/9/2017		71.03	71.05	0.02	3,542.78
	11/13/2017		68.90	71.45	2.55	3,544.30
	5/31/2018		67.62	72.40	4.78	3,545.04
	11/6/2018		68.39	70.65	2.26	3,544.88
	6/24/2019		67.58	69.54	1.96	3,545.76
	1/6/2020		67.68	69.41	1.73	3,545.71
	5/12/2020		68.08	69.80	1.72	3,545.32
	11/9/2020		68.55	70.54	1.99	3,544.78
	1/18/2021		67.78	69.53	1.75	3,545.61
	2/10/2021		67.79	69.50	1.71	3,545.61
	3/8/2021		67.30	68.38	1.08	3,546.25
	4/5/2021		(a)	71.48	(a)	3,542.33
	5/7/2021		69.55	69.75	0.20	3,544.21
	6/9/2021		(a)	71.47	(a)	3,542.34
	7/10/2021		70.20	71.17	0.97	3,543.38
	8/2/2021		(a)	72.90	(a)	3,540.91
	9/1/2021		(a)	71.80	(a)	3,542.01
	10/5/2021		72.00	72.01	0.01	3,541.81
	11/3/2021		(a)	71.80	(a)	3,542.01
	11/10/2021		68.84	70.40	1.56	3,544.60
	12/2/2021		68.84	70.40	1.56	3,544.60
MPE-39	8/16/2013	3608.26 (h)	(a)	60.45	(a)	3,547.81
	11/3/2013		(a)	60.21	(a)	3,548.05
	5/1/2014		60.35	60.48	0.13	3,547.78
	11/21/2014		61.00	61.26	0.26	3,547.20
	4/21/2015		59.99	62.39	2.40	3,547.69
	11/3/2015		61.17	61.18	0.01	3,547.09
	4/27/2016		61.20	61.21	0.01	3,547.06
	8/28/2016		61.90	62.02	0.12	3,546.33
	11/16/2016		61.77	61.85	0.08	3,546.47
	5/22/2017		61.00	62.30	1.30	3,546.95
	11/13/2017		(a)	62.50	(a)	3,545.76
	5/31/2018		61.00	61.02	0.02	3,547.26
	11/6/2018		(a)	61.64	(a)	3,546.62
	6/24/2019		60.78	60.85	0.07	3,547.46
	1/6/2020		61.10	61.25	0.15	3,547.12
	5/13/2020		61.24	61.30	0.06	3,547.01
	11/9/2020		(a)	62.15	(a)	3,546.11
	5/7/2021		(a)	72.16	(a)	3,536.10
	11/10/2021		(a)	62.26	(a)	3,546.00

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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-40	8/16/2013	3610.84 (h)	61.52	61.95	0.43	3,549.22
	11/3/2013		61.95	62.25	0.30	3,548.82
	5/1/2014		61.80	62.15	0.35	3,548.96
	11/21/2014		62.81	63.21	0.40	3,547.93
	4/21/2015		61.35	64.74	3.39	3,548.68
	11/3/2015		61.52	66.91	5.39	3,548.03
	4/29/2016		61.48	66.68	5.20	3,548.11
	11/16/2016		61.85	69.95	8.10	3,547.05
	5/22/2017		61.87	67.35	5.48	3,547.65
	11/6/2017		63.72	70.58	6.86	3,545.47
	11/13/2017		63.72	70.58	6.86	3,545.47
	6/1/2018		61.20	62.53	1.33	3,549.32
	11/6/2018		62.59	63.14	0.55	3,548.12
	6/24/2019		61.37	63.35	1.98	3,548.99
	1/5/2020		61.65	64.45	2.80	3,548.52
	5/13/2020		61.34	62.07	0.73	3,549.32
	11/10/2020		64.06	64.16	0.10	3,546.76
	1/18/2021		62.60	64.27	1.67	3,547.84
	2/10/2021		62.75	64.50	1.75	3,547.67
	3/8/2021		61.09	65.61	4.52	3,548.67
	4/5/2021		65.00	65.15	0.15	3,545.80
	5/7/2021		65.45	65.52	0.07	3,545.37
	6/9/2021		(a)	69.73	(a)	3,541.11
	7/10/2021		63.89	64.80	0.91	3,546.73
	8/2/2021		69.99	70.02	0.03	3,540.84
	9/1/2021		69.64	69.65	0.01	3,541.20
	10/5/2021		65.51	65.52	0.01	3,545.33
	11/3/2021		65.17	65.31	0.14	3,545.64
	11/10/2021		64.35	64.58	0.23	3,546.43
	12/2/2021		64.35	64.58	0.23	3,546.43
MPE-41	8/16/2013	3605.49 (h)	60.40	60.90	0.50	3,544.97
	11/3/2013		56.19	62.74	6.55	3,547.73
	11/13/2013		56.58	62.72	6.14	3,547.44
	5/1/2014		56.35	62.85	6.50	3,547.58
	11/21/2014		60.87	61.23	0.36	3,544.53
	4/21/2015		56.03	61.10	5.07	3,548.24
	11/3/2015		55.78	59.07	3.29	3,548.92
	4/28/2016		56.51	60.44	3.93	3,548.04
	8/28/2016		58.98	61.17	2.19	3,545.98
	11/16/2016		58.21	61.02	2.81	3,546.61
	5/22/2017		56.48	61.47	4.99	3,547.81
	11/6/2017		(a)	71.05	(a)	3,534.44
	11/13/2017		(a)	61.20	(a)	3,544.29
	6/1/2018		57.80	59.18	1.38	3,546.31
	6/24/2019	Not Gauged due to Pump Interference				
	1/7/2020		56.50	57.75	1.25	3,548.69
	5/13/2020		57.16	57.26	0.10	3,548.31
	11/9/2020		57.97	58.62	0.65	3,547.36
	1/18/2021		56.39	58.50	2.11	3,548.59
	2/10/2021		56.45	59.75	3.30	3,548.25
	3/8/2021		56.49	59.78	3.29	3,548.21
	4/5/2021		(a)	68.80	(a)	3,536.69
	5/7/2021		58.08	58.36	0.28	3,547.34
	6/9/2021		(a)	69.03	(a)	3,536.46
	7/10/2021		(a)	56.95	(a)	3,548.54
	8/2/2021		54.29	54.48	0.19	3,551.15
	9/1/2021		56.13	56.30	0.17	3,549.32
	10/5/2021		56.20	57.00	0.80	3,549.10

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-41	11/3/2021		56.45	56.85	0.40	3,548.94
	11/10/2021		56.50	58.65	2.15	3,548.47
	12/2/2021		56.50	58.65	2.15	3,548.47
SVE-1A	6/24/2019	NA	(a)	dry	(a)	NA
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		(a)	dry	(a)	NA
	5/7/2021		(a)	dry	(a)	NA
	11/10/2021		(a)	dry	(a)	NA
SVE-2A	6/24/2019	NA	(a)	dry	(a)	NA
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		(a)	dry	(a)	NA
	5/7/2021		(a)	dry	(a)	NA
	11/10/2021		(a)	29.42	(a)	NA
SVE-3	6/24/2019	NA	(a)	dry	(a)	NA
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		(a)	dry	(a)	NA
	5/7/2021		(a)	dry	(a)	NA
	11/10/2021		(a)	dry	(a)	NA
SVE-22	3/10/2009	NA	33.00	33.20	0.20	NA
	10/8/2009		32.92	33.10	0.18	NA
	1/26/2010		33.05	33.05	0.00	NA
	3/22/2010		33.02	33.02	0.00	NA
	4/17/2011		32.90	33.00	0.10	NA
	12/22/2011		(a)	33.04	(a)	NA
	4/17/2012		(a)	33.00	(a)	NA
	10/18/2012		(a)	33.00	(a)	NA
	4/15/2013		(a)	32.98	(a)	NA
	11/3/2013	3616.76 (h)	(a)	33.08	(a)	3,583.68
	5/1/2014		(a)	dry	(a)	NA
	11/21/2014		(a)	dry	(a)	NA
	4/21/2015		(a)	dry	(a)	NA
	11/3/2015		33.00	33.11	0.11	3,583.73
	4/29/2016		32.94	33.09	0.15	3,583.78
	11/16/2016		32.78	32.95	0.17	3,583.94
	5/22/2017		33.00	33.10	0.10	3,583.74
	11/13/2017		33.14	33.19	0.05	3,583.61
	6/1/2018		33.02	33.10	0.08	3,583.72
	11/6/2018		(a)	33.05	(a)	3,583.71
	6/24/2019		32.74	32.75	0.01	3,584.02
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		(a)	dry	(a)	NA
	5/7/2021		(a)	dry	(a)	NA
	11/10/2021		33.10	33.20	0.10	3,583.64

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-23	3/10/2009	NA	32.78	36.75	3.97	NA
	10/8/2009		33.01	33.79	0.78	NA
	1/26/2010		33.12	36.98	3.86	NA
	3/22/2010		32.09	33.65	1.56	NA
	4/17/2011		33.00	33.30	0.30	NA
	12/22/2011		33.60	34.05	0.45	NA
	4/17/2012		33.62	34.10	0.48	NA
	10/18/2012		34.11	34.68	0.57	NA
	4/15/2013		33.65	33.92	0.27	NA
	11/3/2013	3612.45 (h)	33.73	36.52	2.79	3,578.05
	5/1/2014		33.78	36.80	3.02	3,577.95
	11/21/2014		32.15	32.84	0.69	3,580.13
	4/21/2015		32.75	33.40	0.65	3,579.54
	11/3/2015		32.74	33.07	0.33	3,579.63
	4/29/2016		33.01	33.33	0.32	3,579.36
	11/16/2016		33.37	33.82	0.45	3,578.97
	5/22/2017		33.60	34.15	0.55	3,578.72
	11/13/2017		32.64	33.28	0.64	3,579.66
	6/1/2018		33.27	33.95	0.68	3,579.02
	11/6/2018		32.55	35.70	3.15	3,579.14
	6/24/2019		Not Gauged - Snake Hazard Exist in Vault			
	1/5/2020		33.10	33.75	0.65	3,579.19
	5/13/2020		33.52	36.50	2.98	3,578.21
	11/10/2020		33.70	34.87	1.17	3,578.47
	1/18/2021		33.80	34.88	1.08	3,578.39
	2/10/2021		33.78	34.87	1.09	3,578.41
	3/8/2021		33.85	34.88	1.03	3,578.35
	4/5/2021		34.00	37.00	3.00	3,577.73
	5/7/2021		33.10	33.75	0.65	3,579.19
	6/9/2021		34.06	36.80	2.74	3,577.73
	7/10/2021		33.33	34.66	1.33	3,578.80
	8/2/2021		32.65	34.20	1.55	3,579.43
	9/1/2021		32.72	34.35	1.63	3,579.34
	10/5/2021		32.85	34.15	1.30	3,579.29
	11/3/2021		32.89	34.36	1.47	3,579.21
	11/10/2021		Not Gauged			
	12/2/2021		32.89	34.35	1.46	3,579.21
SVE-24	3/10/2009	NA	(a)	dry	(a)	NA
	10/8/2009		(a)	dry	(a)	NA
	1/26/2010		(a)	dry	(a)	NA
	3/22/2010		(a)	dry	(a)	NA
	4/17/2011		(a)	dry	(a)	NA
	12/22/2011		(a)	dry	(a)	NA
	4/17/2012		(a)	dry	(a)	NA
	10/18/2012		(a)	dry	(a)	NA
	4/15/2013		(a)	dry	(a)	NA
	11/3/2013	3608.97 (h)	(a)	dry	(a)	NA
	5/1/2014		(a)	dry	(a)	NA
	11/21/2014		(a)	dry	(a)	NA
	4/21/2015		(a)	28.61	(a)	3,580.36
	11/3/2015		(a)	dry	(a)	NA
	4/27/2016		(a)	dry	(a)	NA
	11/16/2016		(a)	dry	(a)	NA
	5/22/2017		(a)	dry	(a)	NA
	11/13/2017		(a)	dry	(a)	NA
	5/31/2018		(a)	dry	(a)	NA
	11/6/2018		(a)	dry	(a)	NA
	6/24/2019		(a	dry	(a)	NA
	1/6/2020		(a)	dry	(a)	NA
	5/13/2020		(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-24	11/9/2020		(a)	dry	(a)	NA
	5/7/2021		(a)	dty	(a)	NA
	11/10/2021		(a)	dry	(a)	NA
SVE-25	3/10/2009	NA	(a)	32.70	(a)	NA
	10/8/2009		(a)	31.40	(a)	NA
	1/26/2010		(a)	dry	(a)	NA
	3/22/2010		(a)	32.80	(a)	NA
	4/17/2011		(a)	32.23	(a)	NA
	12/22/2011		(a)	32.65	(a)	NA
	4/17/2012		(a)	dry	(a)	NA
	10/18/2012		(a)	32.70	(a)	NA
	4/15/2013		(a)	dry	(a)	NA
	11/3/2013	3617.02 (h)	(a)	32.72	(a)	3,584.30
	5/1/2014		(a)	32.70	(a)	3,584.32
	11/21/2014		(a)	dry	(a)	NA
	4/21/2015		(a)	32.73	(a)	3,584.29
	11/3/2015		(a)	dry	(a)	NA
	4/29/2016		(a)	dry	(a)	NA
	11/16/2016		(a)	dry	(a)	NA
	5/22/2017		(a)	dry	(a)	NA
	11/13/2017		(a)	31.88	(a)	3,585.14
	6/1/2018		(a)	32.60	(a)	3,584.42
	11/6/2018		(a)	31.75	(a)	3,585.27
	6/24/2019		(a)	dry	(a)	NA
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		32.50	32.69	0.19	3,584.47
	1/18/2021		32.60	32.71	0.11	3,584.39
	2/10/2021		32.57	32.70	0.13	3,584.42
	3/8/2021		32.55	32.82	0.27	3,584.41
	4/5/2021		32.65	32.75	0.10	3,584.35
	5/7/2021		(a)	dry	(a)	NA
	6/9/2021		32.85	32.90	0.05	3,584.16
	7/10/2021		32.67	32.71	0.04	3,584.34
	8/2/2021		32.30	32.80	0.50	3,584.60
	9/1/2021		31.35	31.65	0.30	3,585.60
	10/5/2021		31.12	31.14	0.02	3,585.90
	11/3/2021		(a)	32.20	(a)	3,584.82
	11/10/2021		(a)	32.24	(a)	3,584.78
	12/2/2021		(a)	32.25	(a)	3,584.77

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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)
SVE-26	3/10/2009	NA	(a)	dry	(a)	NA
	10/8/2009		(a)	dry	(a)	NA
	1/26/2010		(a)	dry	(a)	NA
	3/22/2010		(a)	dry	(a)	NA
	4/17/2011		(a)	dry	(a)	NA
	12/22/2011		(a)	dry	(a)	NA
	4/17/2012		(a)	dry	(a)	NA
	10/18/2012		(a)	dry	(a)	NA
	4/15/2013		(a)	dry	(a)	NA
	11/3/2013	3614.43 (h)	(a)	dry	(a)	NA
	5/1/2014		(a)	dry	(a)	NA
	11/21/2014		(a)	dry	(a)	NA
	4/21/2015		(a)	32.60	(a)	3,581.83
	11/3/2015		(a)	dry	(a)	NA
	4/29/2016		(a)	dry	(a)	NA
	11/16/2016		(a)	dry	(a)	NA
	5/22/2017		(a)	dry	(a)	NA
	11/13/2017		(a)	dry	(a)	NA
	6/1/2018		(a)	dry	(a)	NA
	11/6/2018		(a)	dry	(a)	NA
	6/24/2019		(a)	dry	(a)	NA
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		(a)	dry	(a)	NA
	5/7/2021		(a)	dry	(a)	NA
	11/10/2021		(a)	dry	(a)	NA
SVE-27	3/10/2009	NA	(a)	32.92	(a)	NA
	10/8/2009		(a)	33.63	(a)	NA
	1/26/2010		(a)	dry	(a)	NA
	3/22/2010		(a)	33.70	(a)	NA
	4/17/2011		(a)	33.70	(a)	NA
	12/22/2011		(a)	33.83	(a)	NA
	4/17/2012		(a)	dry	(a)	NA
	10/18/2012		(a)	dry	(a)	NA
	4/15/2013		(a)	33.82	(a)	NA
	11/3/2013	3613.19 (h)	(a)	dry	(a)	NA
	5/1/2014		(a)	dry	(a)	NA
	11/21/2014		(a)	33.01	(a)	3,580.18
	4/21/2015		(a)	33.58	(a)	3,579.61
	11/3/2015		(a)	33.54	(a)	3,579.65
	4/29/2016		(a)	33.82	(a)	3,579.37
	11/16/2016		(a)	34.15	(a)	3,579.04
	5/22/2017		(a)	dry	(a)	NA
	11/13/2017		(a)	33.48	(a)	3,579.71
	6/1/2018		(a)	34.00	(a)	3,579.19
	11/6/2018		(a)	33.31	(a)	3,579.88
	6/24/2019		Not Gauged - Snake Hazard Exist in Vault			
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		(a)	dry	(a)	NA
	5/7/2021		(a)	dry	(a)	NA
	11/10/2021		(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-28	3/10/2009	NA	(a)	28.60	(a)	NA
	10/8/2009		(a)	28.95	(a)	NA
	1/26/2010		(a)	dry	(a)	NA
	3/22/2010		(a)	29.07	(a)	NA
	4/17/2011		(a)	29.17	(a)	NA
	12/22/2011		(a)	29.65	(a)	NA
	4/17/2012		(a)	dry	(a)	NA
	10/18/2012		(a)	dry	(a)	NA
	4/15/2013		(a)	33.58	(a)	NA
	11/3/2013	3607.84 (h)	(a)	dry	(a)	NA
	5/1/2014		(a)	dry	(a)	NA
	11/21/2014		(a)	28.59	(a)	3,579.25
	4/21/2015		(a)	28.86	(a)	3,578.98
	11/3/2015		(a)	28.75	(a)	3,579.09
	4/27/2016		(a)	28.97	(a)	3,578.87
	11/16/2016		(a)	29.18	(a)	3,578.66
	5/22/2017		(a)	29.44	(a)	3,578.40
	11/13/2017		(a)	28.76	(a)	3,579.08
	6/1/2018		(a)	29.15	(a)	3,578.69
	11/6/2018		(a)	28.53	(a)	3,579.31
	6/24/2019		(a)	28.97	(a)	3,578.87
	1/5/2020		(a)	28.81	(a)	3,579.03
	5/13/2020		(a)	29.05	(a)	3,578.79
	11/10/2020		(a)	29.73	(a)	3,578.11
	5/7/2021		(a)	31.37	(a)	3,576.47
	11/10/2021		(a)	30.63	(a)	3,577.21
SVE-30	3/10/2009	NA	(a)	39.32	(a)	NA
	10/8/2009		(a)	39.29	(a)	NA
	3/22/2010		(a)	40.28	(a)	NA
	4/17/2011		(a)	40.11	(a)	NA
	12/22/2011		(a)	41.11	(a)	NA
	4/17/2012		(a)	41.65	(a)	NA
	10/18/2012		(a)	41.42	(a)	NA
	4/15/2013		(a)	41.67	(a)	NA
	11/3/2013	3616.00 (h)	(a)	43.02	(a)	3,572.98
	5/1/2014		(a)	43.35	(a)	3,572.65
	11/21/2014		(a)	43.30	(a)	3,572.70
	4/21/2015		(a)	41.80	(a)	3,574.20
	11/3/2015		(a)	41.60	(a)	3,574.40
	4/28/2016		(a)	41.56	(a)	3,574.44
	11/16/2016		(a)	41.23	(a)	3,574.77
	5/22/2017		NA	NA	NA	NA
	11/13/2017		(a)	42.00	(a)	3,574.00
	6/1/2018		(a)	42.02	(a)	3,573.98
	11/6/2018		(a)	42.46	(a)	3,573.54
	6/24/2019		(a)	42.52	(a)	3,573.48
	1/5/2020		(a)	42.45	(a)	3,573.55
	5/13/2020		(a)	42.55	(a)	3,573.45
	11/10/2020		(a)	43.05	(a)	3,572.95
	5/7/2021		(a)	43.22	(a)	3,572.78
	11/10/2021		(a)	43.25	(a)	3,572.75

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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)
SVE-31	3/10/2009	NA	(a)	30.45	(a)	NA
	10/8/2009		(a)	30.43	(a)	NA
	1/26/2010		(a)	30.55	(a)	NA
	3/22/2010		(a)	31.49	(a)	NA
	4/17/2011		(a)	dry	(a)	NA
	12/22/2011		(a)	28.50	(a)	NA
	4/17/2012		(a)	dry	(a)	NA
	10/18/2012		(a)	dry	(a)	NA
	4/15/2013		(a)	dry	(a)	NA
	11/3/2013	3612.67 (h)	(a)	dry	(a)	NA
	5/1/2014		(a)	dry	(a)	NA
	11/21/2014		(a)	30.27	(a)	3,582.40
	4/21/2015		(a)	30.97	(a)	3,581.70
	11/3/2015		(a)	30.20	(a)	3,582.47
	4/28/2016		(a)	30.35	(a)	3,582.32
	11/16/2016		(a)	30.73	(a)	3,581.94
	5/22/2017		(a)	dry	(a)	NA
	11/13/2017		(a)	30.48	(a)	3,582.19
	6/1/2018		(a)	dry	(a)	NA
	11/6/2018		(a)	30.24	(a)	3,582.43
	6/24/2019		(a)	dry	(a)	NA
	1/5/2020		(a)	dry	(a)	NA
	5/13/2020		(a)	dry	(a)	NA
	11/10/2020		(a)	31.65	(a)	3,581.02
	5/7/2021		(a)	dry	(a)	NA
	11/10/2021		(a)	30.63	(a)	3,582.04

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)
RW-1	3/10/2009	NA	(a)	33.17	(a)	NA
	10/8/2009		(a)	33.48	(a)	NA
	3/22/2010		(a)	33.62	(a)	NA
	4/17/2011		(a)	33.80	(a)	NA
	12/22/2011		(a)	34.26	(a)	NA
	4/17/2012		(a)	34.57	(a)	NA
	10/18/2012		(a)	35.16	(a)	NA
	4/15/2013		(a)	35.77	(a)	NA
	11/3/2013	3612.72 (h)	(a)	34.95	(a)	3,577.77
	4/30/2014		(a)	35.48	(a)	3,577.24
	11/19/2014		(a)	32.46	(a)	3,580.26
	4/21/2015		(a)	33.08	(a)	3,579.64
	11/3/2015		(a)	33.00	(a)	3,579.72
	4/28/2016		(a)	33.32	(a)	3,579.40
	11/16/2016		(a)	33.70	(a)	3,579.02
	5/22/2017		(a)	34.03	(a)	3,578.69
	11/13/2017		(a)	32.96	(a)	3,579.76
	6/1/2018		(a)	33.62	(a)	3,579.10
	11/6/2018		(a)	32.82	(a)	3,579.90
	6/24/2019		(a)	33.57	(a)	3,579.15
	1/5/2020		(a)	33.38	(a)	3,579.34
	5/13/2020		(a)	33.68	(a)	3,579.04
	11/10/2020		(a)	34.55	(a)	3,578.17
	5/7/2021		(a)	36.85	(a)	3,575.87
	11/10/2021		(a)	33.40	(a)	3,579.32

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

Prepared by: SWS 12/7/21
Checked by: AP 3/16/22

(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.

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 mS/cm
MW-10	5/11/21	10:00	1.00	19.39	7.10	4.89	163.0	3.751
	11/14/21	15:03	1.25	19.62	7.30	0.86	24.5	3.718
MW-11	5/11/21	9:35	1.50	19.25	7.19	6.19	153.2	3.863
	11/14/21	10:36	2.00	18.95	7.48	2.70	-3.8	3.9
MW-13	11/14/21	16:30	3.00	20.88	7.45	0.68	-36.8	3.872
MW-14	11/14/21	9:55	4.50	18.83	7.21	1.39	-39.4	3.825
MW-16	5/11/21	**Not Sampled due to PSH in Well**						
	11/13/21	**Not Sampled due to PSH in Well**						
MW-17	5/11/21	16:17	3.25	19.36	7.26	5.58	-8.0	4.098
	11/13/21	11:22	2.00	18.61	7.55	5.2	-21.9	4.109
MW-20	5/11/21	10:47	5.00	18.77	7.28	7.70	70.4	3.822
	11/22/21	15:07	5.50	18.45	7.30	6.71	34.5	3.896
MW-21	5/11/21	15:58	4.00	20.29	7.03	4.54	-103.4	3.164
	11/12/21	14:00	3.75	18.55	7.16	1.77	-99.7	3.163
MW-22	5/11/21	10:07	3.00	18.80	7.32	7.09	21.7	3.771
	11/22/21	14:40	3.50	19.35	7.41	3.16	-15.2	3.842
MW-24D	11/22/21	16:50	50.0	18.12	7.41	3.15	-192.7	3.619
MW-26	5/11/21	11:10	6.00	18.67	6.96	6.32	93.4	3.816
	11/22/21	15:56	7.25	17.85	7.29	6.25	39.2	3.861
MW-27	5/11/21	15:17	3.00	20.04	6.96	2.7	-276	3.867
	11/12/21	12:23	2.50	18.33	7.04	2.34	-181.1	3.971
MW-29	5/11/21	14:47	1.75	19.63	7.13	2.65	-112.7	3.596
	11/11/21	10:42	1.75	18.25	7.32	4.03	-91.2	3.611
MW-32	11/11/21	9:04	1.75	18.30	7.42	4.58	-105.5	3.641
MW-34	5/11/21	14:17	5.00	20.28	7.13	2.12	5.2	3.533
	11/11/21	12:25	5.00	19.30	7.33	1.47	-13.5	3.596
MW-35	11/11/21	13:47	7.00	19.18	7.48	7.34	60.8	4.06
MW-37	11/10/21	13:05	4.50	19.27	7.22	1.8	45.2	3.885
MW-39	5/11/21	15:45	9.50	18.98	7.06	6.97	95.6	3.789
	11/23/21	12:52	10.00	18.87	7.24	3.10	30.8	3.841
MW-40	5/11/21	14:53	7.50	18.98	7.02	5.14	71.1	3.799
	11/23/21	11:24	7.50	18.41	7.40	3.24	11.6	3.371
MW-41	5/11/21	15:21	6.0	19.42	7.09	7.11	85.2	3.717
	11/23/21	12:10	6.00	19.38	7.26	3.27	23.5	3.357
MW-42	5/11/21	11:58	9.50	18.74	7.04	4.82	92.6	3.814
	11/23/21	10:36	10.0	18.75	7.25	2.23	-0.3	3.868
SVE-28	5/11/21	11:20	**Not Sampled due to PSH in Well**					
	11/15/21	12:38	3.00	19.87	7.09	2.93	-97.6	3.413
SVE-30	5/11/21	10:50	**Not Sampled due to PSH in Well**					
	11/14/21	11:20	**Not Sampled due to PSH in Well**					
SVE-31	5/11/21	**DRY**						
	11/15/21	13:31	1.25	19.70	7.14	2.33	-9.9	4.468
RW-1	5/11/21	13:15	**Not Sampled due to PSH in Well**					
	11/15/21	11:32	32.00	21.06	7.11	2.89	-156.0	3.28

Notes

mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
NS - Not Analyzed
Note: Field parameters are only shown for wells sampled

°C - Degrees Celsius

Prepared by: SWS 12/7/21
Checked by: HRB 1/5/2022

Released to Imaging: 11/22/2022 8:38:59 AM

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Received by OCD: 10/21/2022 7:35:13 AM

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 mS/cm
MW-10	2/13/2020	14:20	1.25	18.73	6.22	3.39	-121.2	3.793
	5/11/2021	10:00	1	19.39	7.1	4.89	163	3.751
	11/14/2021	15:03	1.25	19.62	7.3	0.86	24.5	3.718
MW-11	2/13/2020	14:55	1.75	18.17	6.05	5.06	-80.3	3.912
	5/11/2021	9:35	1.5	19.25	7.19	6.19	153.2	3.863
	11/14/2021	10:36	2	18.95	7.48	2.7	-3.8	3.9
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
	1/8/20	16:20	3.5	19.53	6.93	3.12	-138.2	3.724
	11/14/21	16:30	3.0	20.88	7.45	0.68	-36.8	3.872
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
	1/7/20	9:41	4.3	18.52	6.96	2.58	-188.7	3.589
	11/14/21	9:55	4.5	18.83	7.21	1.39	-39.4	3.825
MW-16	6/24/19	Not sampled due to PSH in well						
	1/6/20	Not sampled due to PSH in well						
	11/13/21	Not sampled due to PSH in well						
MW-17	2/13/20	15:35	2.00	18.06	6.26	3.82	-140.00	4.13
	9/9/20	16:00	1.75	17.23	6.72	5.22	7.4	4.029
	5/11/21	16:17	3.25	19.36	7.26	5.58	-8	4.098
	11/13/21	11:22	2	18.01	7.55	5.2	-21.9	4.109
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
	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
	5/11/21	10:47	5.00	18.77	7.28	7.70	70.4	3.822
	11/22/21	15:07	5.50	18.45	7.30	6.71	34.5	3.896
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
	6/24/19	11:40	4.00	20.75	6.68	1.66	-110.8	3.168
	11/26/19	11:00	4.00	18.32	6.18	1.96	-128.3	3.248
	5/11/21	15:58	4.00	20.29	7.03	4.54	-103.4	3.164
	11/12/21	14:00	3.75	18.55	7.16	1.77	-99.7	3.163
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
	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
	5/11/21	10:07	3.0	18.80	7.32	7.09	21.7	3.771
	11/22/21	14:40	3.5	19.35	7.41	3.16	-15.2	3.842
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
	1/7/20	10:35	55	18.81	7.1	0.51	60.2	3.225
	11/22/21	16:50	50	18.12	7.41	3.15	-192.7	3.619

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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 mS/cm
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
	6/25/19	10:03	7.50	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
	5/11/21	11:10	6.00	18.67	6.96	6.32	93.4	3.816
	11/22/21	15:56	7.25	17.85	7.29	6.25	39.2	3.861
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
	11/26/19	9:50	2.75	19.26	6.47	1.32	-308.4	3.737
	5/11/21	15:17	3.00	20.04	6.96	2.70	-276	3.867
	11/12/21	12:23	2.50	18.33	7.04	2.34	-181.1	3.971
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
	6/24/19	11:00	2.00	21.02	6.7	0.79	-142.4	3.209
	11/25/19	16:05	2.00	20.69	6.7	2.33	-116.1	3.412
	5/11/21	14:47	1.75	19.63	7.13	2.65	-112.7	3.596
	11/11/21	10:42	1.75	18.25	7.32	4.03	-91.2	3.611
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
	11/25/19	14:02	3.3	19.41	6.08	2.23	39	3.308
	11/11/21	9:00	1.8	18.30	7.42	4.58	-105.5	3.641
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
	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
	5/11/21	14:17	5.00	20.28	7.13	2.12	5.2	3.533
	11811/21	12:25	5.00	19.30	7.33	1.47	-13.5	3.596

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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 mS/cm
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
	11/21/19	12:11	7.0	18.85	6.21	5.77	60.6	4.046
	11/11/21	13:47	7.0	19.12	7.48	7.34	60.8	4.06
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
	11/20/19	13:47	4.8	18.79	6.82	5.44	61	3.872
	11/10/21	13:05	4.5	19.27	7.22	1.8	45.2	3.885
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
	6/26/19	11:16	10.25	19.03	6.67	4.64	101.3	3.715
	1/7/20	11:45	10.00	18.65	6.99	2.65	136	3.619
	5/11/21	15:45	9.50	18.98	7.06	6.97	95.6	3.789
	11/23/21	12:52	10.00	18.87	7.24	3.1	30.8	3.841
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
	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
	5/11/21	14:53	7.50	18.98	7.02	5.14	71.1	3.799
	11/23/21	11:24	7.50	18.41	7.4	3.24	11.6	3.371
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
	6/25/19	16:25	6.5	20.02	6.74	7.14	83.2	3.635
	1/8/20	10:41	6.3	18.90	7.08	7.4	115.0	3.397
	5/11/21	15:21	6.0	19.42	7.09	7.11	85.2	3.717
	11/23/21	12:10	6.0	19.38	7.26	3.27	23.5	3.357

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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
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
	09/10/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/23/20	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	05/11/21	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/14/21	<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
	09/10/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/23/20	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	05/11/21	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/14/21	<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
	11/23/20	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/14/21	<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
	11/19/20	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/14/21	<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**						

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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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
MW-16	05/16/20	**Not Sampled - PSH in well**						
	11/09/20	**Not Sampled - PSH in well**						
	05/11/21	**Not Sampled - PSH in well**						
MW-17	02/13/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	09/09/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/19/20	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	05/11/21	<1.0	<1.0	<1.0	<2.0	NA	NA	NA
	11/13/21	<1.0	<1.0	<1.0	1.7	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
	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
	05/17/20	< 1.0	< 1.0	< 1.0	< 1.5	6.1	3.0	< 1.0
	11/20/20	<1.0	<1.0	<1.0	<1.5	5.9	3.0	<1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	5.0	2.4	<1.0
	11/22/21	<1.0	<1.0	<1.0	<1.5	5.2	2.2	<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
	05/15/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/18/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	05/11/21	<1.0	<1.0	< 1.0	<1.5	NA	NA	NA
	11/12/21	< 1.0	< 1.0	< 1.0	<1.5	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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
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
	05/17/20	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	2.4	<1.0
	11/20/20	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.4	<1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	<1.0	1.5	<1.0
	11/22/21	<1.0	<1.0	<1.0	<1.5	<1.0	2.0	<1.0
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
	11/30/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/22/21	<1.0	<1.0	<1.0	<1.5	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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
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
	05/17/20	< 1.0	< 1.0	< 1.0	< 1.5	8.5	**45**	< 1.0
	11/20/20	< 1.0	< 1.0	< 1.0	< 1.5	8.8	**41**	< 1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	9.3	**42**	<1.0
	11/22/21	<1.0	<1.0	<1.0	<1.5	7.8	**35**	<1.0
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
	05/14/20	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/16/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	05/11/21	<5.0	<5.0	<5.0	<7.5	NA	NA	NA
	11/11/21	< 1.0	< 1.0	< 1.0	< 1.5	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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
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
	05/14/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/12/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	05/11/21	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/11/21	<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
	11/25/19	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/12/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/11/21	< 1.0	< 1.0	< 1.0	< 1.5	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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
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
	05/14/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	11/12/20	< 1.0	< 1.0	< 1.0	<1.5	NA	NA	NA
	05/11/21	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/11/21	<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
	11/12/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/11/21	< 1.0	< 1.0	< 1.0	< 1.5	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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
MW-37	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
	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
	11/12/20	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA	NA
	11/10/21	< 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
	05/17/20	< 1.0	< 1.0	< 1.0	< 1.5	3.1	**19**	< 1.0
	11/30/20	< 1.0	< 1.0	< 1.0	< 1.5	3.7	**22**	< 1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	3.6	**24**	<1.0
	11/23/21	<1.0	<1.0	<1.0	<1.5	3.4	**19**	<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
	05/17/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	11/30/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 1.0	< 1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0
	11/23/21	<1.0	<1.0	<1.0	<1.5	<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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
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
	05/17/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.2	< 1.0
	11/30/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.1	< 1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	<1.0	1.2	<1.0
	11/23/21	<1.0	<1.0	<1.0	<1.5	<1.0	1.2	<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
	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
	05/17/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.5	< 1.0
	11/30/20	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	1.9	< 1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	<1.0	2.2	<1.0
	11/23/21	<1.0	<1.0	<1.0	<1.5	<1.0	2.2	<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

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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 Human Health Standard		10	750	750	620	25	5	1
USEPA MCL		5	1,000	700	10,000	--	7	2
Tap Water (2012)		4.13	2280	14.8	-	24.2	340	0.16
Groundwater Cleanup Level (GCL)		5	750	700	620	25	5	1
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
	11/23/20	1.3	<1.0	<1.0	<1.5	1.3	<1.0	<1.0
	05/11/21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0
	11/15/21	**4.0**	<1.0	<1.0	<1.5	<1.0	<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
	09/10/20	**8.6**	<5.0	20	<7.5	**25**	<5.0	<5.0
	11/23/20	**5.7**	<1.0	8	<1.5	**33**	NA	NA
	05/11/21	**6.4**	<1.0	3.5	<1.5	**37**	<1.0	<1.0
	11/14/21	<5.0	<5.0	<5.0	<1.5	**35**	<5.0	<5.0
SVE-31	11/12/18	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	11/23/20	<1.0	<1.0	<1.0	<1.5	NA	NA	NA
	05/11/21	dry						
	11/15/21	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0
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
	09/10/20	**25**	<1.0	6.2	<1.5	3.1	<1.0	<1.0
	11/23/20	**38**	<1.0	13	7.9	3.5	<1.0	<1.0
	05/11/21	**46**	<5.0	10	<7.5	5.6	<5.0	<5.0
	11/15/21	**17**	<1.0	3.8	<1.5	2.1	<1.0	<1.0

Notes:

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.

Only constituents detected in one or more groundwater samples are shown in this table

All results reported above the applicable standard are shown in bold type

[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

NMWQCC Human Health Standards - from New Mexico Administrative Code (NMAC) 20.6.2, Part A, Human Health Standards. Used as GCL for target cleanup if lower than the MCL.

USEPA MCL - United States Environmental Protection Agency's Maximum Concentration Limit. Used as GCL for target cleanup if lower than the NMWQCC Human Health Standard.

Tap Water (2012) - From Table A-1 for the 2012 NMED Risk Assessment Guidance for Site Investigation and Remediation. Used as GCL for target cleanup if WQCC standard nor MCL has been established.

Prepared by: SWS 12/7/2021
Checked by: HRB 1/5/2022

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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	1,4-Dioxane
NMWQCC Human Health Standard		--	--	--	70	-	70	--	-
USEPA MCL		--	--	--	70	--	70	--	--
Tap Water (2012)		-	679	-	4.12	1.43	73	21800	6.72
Groundwater Cleanup Level (GCL)		-	679	-	70	1.43	70	21800	6.72
MW-20	05/17/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/20/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/22/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
MW-22	05/17/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/20/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/22/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
MW-26	05/17/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/20/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/22/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
MW-39	05/17/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/30/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/23/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
MW-40	05/17/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/30/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/23/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
MW-41	05/17/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/30/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/23/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
MW-42	05/17/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/30/20	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	<1.0
	11/23/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
SVE-28	09/10/20	NA	NA	NA	NA	NA	NA	NA	<1.0
	05/11/21	<2.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	14	<10
	11/15/21	<2.0	<1.0	<1.0	<1.0	<0.10	<1.0	<10	<1.0
SVE-30	09/10/20	**10**	**6**	**2**	<1.0	**6.0**	**1.0**	<50	**5.9**
	11/23/20	**4**	**4.1**	**3.1**	**3.3**	*<2.0*	<1.0	<10	**6**
	05/11/21	**3.3**	**2.4**	**1.8**	**3.2**	*<2.0*	<1.0	<10	<10
	11/14/21	**<10**	<5.0	<5.0	<5.0	<0.1	<5.0	<50	4
SVE-31	11/15/21	<1.0	<1.0	<1.0	<1.0	*<2.0*	<1.0	<10	NA
RW-1	09/10/20	<2.0	**3**	<5.0	<5.0	*<10*	<5.0	<10	<1.0
	11/23/20	<2.0	**3.9**	**3.2**	<1.0	**4.0**	**3.6**	<10	*<25*
	05/11/21	<10	<5.0	<5.0	<5.0	**<10**	**6**	<50	*<50*
	11/15/21	<2.0	<1.0	<1.0	<1.0	**0.54**	**1.7**	<10	<1.0

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)

NA - not sampled per the approved sampling and analysis plan.

NMWQCC - New Mexico Water Quality Control Commission Standard

NMWQCC Human Health Standards - from New Mexico Administrative Code (NMAC) 20.6.2, Part A, Human Health Standards. Used as GCL for target cleanup if lower than the MCL.

USEPA MCL - United States Environmental Protection Agency's Maximum Concentration Limit. Used as GCL for target cleanup if lower than the NMWQCC Human Health Standard.

Tap Water (2012) - From Table A-1 for the 2012 NMED Risk Assessment Guidance for Site Investigation and Remediation. Used as GCL for target cleanup if WQCC standard nor MCL has been established.

Prepared by: SWS 12/7/2021
Checked by: HRB 1/5/2022

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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

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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-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
SVE-24	11/13/02	30	28.85	Flush Mount	2	20-30	18
SVE-25	11/04/02	34	32.85	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

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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-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

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: SWS 7/7/21
Checked by: HRB 1/5/2022

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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 2021 Mass Removal Rate (gal/yr)	Approximate 2021 Mass Removal Rate (lbs/yr)
01/22/21	393001	160	0.24	1.032	236036	160	0.14	0.620	320	0.4	1.65	521	3,303
03/25/21	357110	160	0.21	0.938	278944	160	0.17	0.732	320	0.4	1.67	527	3,340
06/09/21	549016	160	0.33	1.441	321744	160	0.19	0.845	320	0.5	2.29	721	4,572
08/25/21	242532	160	0.15	0.637	152140	160	0.09	0.399	320	0.2	1.04	327	2,072
12/30/21	287196	160	0.17	0.754	NS	NS	NS	NS	160	0.2	0.75	238	1,508
										General Average:	1.66	524	3,322
										Total Potential Criteria Pollutant Emissions*	0.99	312	1,980

*Actual Average at 60% 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: SWS 9/16/21
Checked by: HRB 1/3/22

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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

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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

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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)
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	
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

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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)
04/10/20	700	MB/CB	900	0	1,161,930	170.0	4,138	0	0.00	
04/15/20	600	MB/CB	5,600	4,700	1,166,630	5.0	4,143	948	0.66	
04/21/20	630	MB/CB	10,600	5,000	1,171,630	6.0	4,149	832	0.58	
04/28/20	600	MB/CB	14,300	3,700	1,175,330	7.0	4,156	530	0.37	
05/22/20	600	MB/CB	19,400	5,100	1,180,430	24.0	4,180	213	0.15	
06/02/20	650	MB/CB	26,600	7,200	1,187,630	11.0	4,191	653	0.45	
06/12/20	650	MB/CB	30,000	3,400	1,191,030	10.0	4,201	340	0.24	
06/19/20	600	MB/CB	33,500	3,500	1,194,530	7.0	4,208	501	0.35	
06/26/20	750	MB/CB	36,200	2,700	1,197,230	7.1	4,215	382	0.27	
07/11/20	600	MB/CB	41,600	5,400	1,202,630	14.9	4,230	362	0.25	
07/23/20	640	MB/CB	44,600	3,000	1,205,630	12.0	4,242	250	0.17	
07/31/20	640	MB/CB	46,300	1,700	1,207,330	8.0	4,250	213	0.15	
08/07/20	640	MB/CB	48,300	2,000	1,209,330	7.0	4,257	286	0.20	
08/14/20	640	MB/CB	51,100	2,800	1,212,130	7.0	4,264	400	0.28	
08/27/20	650	MB/CB	53,300	2,200	1,214,330	13.0	4,277	169	0.12	
09/03/20	650	MB/CB	57,500	4,200	1,218,530	7.0	4,284	600	0.42	
09/19/20	650	MB/CB	58,300	800	1,219,330	16.0	4,300	50	0.03	
09/24/20	650	MB/CB	63,100	4,800	1,224,130	5.0	4,305	960	0.67	
10/01/20	650	MB/CB	74,100	11,000	1,235,130	7.0	4,312	1,571	1.09	
10/10/20	750	MB/CB	82,500	8,400	1,243,530	9.0	4,321	929	0.65	
10/17/20	760	MB/CB	88,600	6,100	1,249,630	7.0	4,328	871	0.60	
10/21/20	760	MB/CB	91,800	3,200	1,252,830	4.0	4,332	800	0.56	**2020**
10/31/20	850	MB/CB	95,700	3,900	1,256,730	10.0	4,342	389	0.27	94,800
03/29/21	600	MB/CB	95,700	0	1,256,730	148.9	4,491	0	0.00	
03/30/21	700	MB/CB	98,300	2,600	1,259,330	1.0	4,492	2,496	1.73	
04/10/21	700	MB/CB	108,000	9,700	1,269,030	11.0	4,503	882	0.61	
04/18/21	730	MB/CB	112,100	4,100	1,273,130	8.0	4,511	512	0.36	
04/23/21	615	MB/CB	118,000	5,900	1,279,030	5.0	4,516	1,191	0.83	
04/30/21	645	MB/CB	124,700	6,700	1,285,730	7.0	4,523	955	0.66	
05/15/21	645	MB/CB	128,300	3,600	1,289,330	15.0	4,538	240	0.17	
05/21/21	645	MB/CB	133,300	5,000	1,294,330	6.0	4,544	833	0.58	
05/27/21	645	MB/CB	137,500	4,200	1,298,530	6.0	4,550	700	0.49	
06/05/21	645	MB/CB	142,200	4,700	1,303,230	9.0	4,559	522	0.36	
06/12/21	645	MB/CB	144,600	2,400	1,305,630	7.0	4,566	343	0.24	
06/18/21	700	MB/CB	148,700	4,100	1,309,730	6.0	4,572	681	0.47	
06/25/21	645	MB/CB	153,000	4,300	1,314,030	7.0	4,579	616	0.43	
07/01/21	645	MB/CB	161,300	8,300	1,322,330	6.0	4,585	1,383	0.96	

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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)
07/08/21	645	MB/CB	174,300	13,000	1,335,330	7.0	4,592	1,857	1.29	
07/15/21	630	MB/CB	182,000	7,700	1,343,030	7.0	4,599	1,101	0.76	
07/22/21	645	MB/CB	184,500	2,500	1,345,530	7.0	4,606	357	0.25	
07/29/21	645	MB/CB	188,800	4,300	1,349,830	7.0	4,613	614	0.43	
08/05/21	645	MB/CB	192,000	3,200	1,353,030	7.0	4,620	457	0.32	
08/13/21	645	MB/CB	194,100	2,100	1,355,130	8.0	4,628	263	0.18	
08/20/21	645	MB/CB	196,400	2,300	1,357,430	7.0	4,635	329	0.23	
08/26/21	645	MB/CB	198,300	1,900	1,359,330	6.0	4,641	317	0.22	
09/03/21	645	MB/CB	200,500	2,200	1,361,530	8.0	4,649	275	0.19	
09/10/21	645	MB/CB	205,000	4,500	1,366,030	7.0	4,656	643	0.45	
09/17/21	645	MB/CB	209,400	4,400	1,370,430	7.0	4,663	629	0.44	
09/24/21	645	MB/CB	213,000	3,600	1,374,030	7.0	4,670	514	0.36	
10/01/21	645	MB/CB	217,400	4,400	1,378,430	7.0	4,677	629	0.44	
10/09/21	645	MB/CB	224,200	6,800	1,385,230	8.0	4,685	850	0.59	
10/15/21	645	MB/CB	227,500	3,300	1,388,530	6.0	4,691	550	0.38	
10/22/21	645	MB/CB	232,000	4,500	1,393,030	7.0	4,698	643	0.45	
10/29/21	645	MB/CB	236,400	4,400	1,397,430	7.0	4,705	629	0.44	**2021**
11/05/21	645	MB/CB	240,600	4,200	1,401,630	7.0	4,712	600	0.42	144,900

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: HRB 1/2/22
Checked by: SSD 3/17/2022

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
						2009 Total	**17.185**	**2.715**
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
						2010 Total	**3.927**	**0.620**
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
						2011 Total	**4.292**	**0.678**
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
						2012 Total	**11.587**	**1.831**
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
						2013 Total	**7.675**	**1.213**
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
						2014 Total	**4.118**	**0.651**
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
						2015 Total	**2.940**	**0.464**

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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)
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
						2016 Total	**5.348**	**0.845**
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
						2017 Total	**8.613**	**1.361**
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
						2018 Total	**3.122**	**0.493**
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
						2019 Total	**2.577**	**0.407**
04/14/20	5,600	4,700	6	783	11,750	0.0769	0.5	0.073
05/31/20	26,600	21,000	47	447	9,870	0.0368	1.7	0.273
06/25/20	36,200	9,600	25	384	8,780	0.0282	0.7	0.111
09/21/20	58,300	22,100	88	251	10,130	0.0212	1.869	0.295
10/26/20	95,700	37,400	35	1,069	10,570	0.0943	3.301	0.522
						2020 Total	**8.067**	**1.274**
03/30/21	98,300	NA	NA	NA	NA	NA	NA	NA
04/13/21	108,000	9,700	169	57	5,175	0.0025	0.4	0.066
05/25/21	137,500	29,500	42	702	3,860	0.0226	1.0	0.150
06/15/21	148,700	11,200	21	533	8,340	0.0371	0.8	0.123
07/22/21	184,500	35,800	37	968	3,700	0.0299	1.1	0.175
08/17/21	196,400	11,900	26	458	2,233	0.0085	0.2	0.035
09/15/21	209,400	13,000	29	448	7,580	0.0284	0.8	0.130
10/14/21	227,500	18,100	29	624	8,850	0.0461	1.3	0.211
						2021 Total	**5.639**	**0.891**
						Total	**85**	**13.442**

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.
3) New water meter installed on 4/9/2020

Prepared by: HRB 1/2/2022
Checked by: SSD 3/17/2022

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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
	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
	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
	05/31/20	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<0.5	**510**	**790**	<1.0	2.4	350	100	2.1	200
	06/25/20	<1	<1	<1	<1.5	--	<10	<10	ND	<0.5	**380**	**760**	<1.0	**1.6**	290	120	2.2	220
	09/21/20	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<0.5	**380**	**1,100**	<0.10	0.6	400	110	2.3	210
	10/26/20	<1.0	<1.0	<1.0	<1.5	--	11	<10	ND	<0.5	**450**	**1,200**	<1.0	1.3	440	120	3.9	220
	04/12/21	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<0.5	**370**	**1,100**	<0.10	1.3	400	110	8.1	230
	05/25/21	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<2.5	**370**	**1,100**	<0.50	1.1	400	110	4.9	210
	06/15/21	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<0.5	**380**	**1,000**	<1.0	1.1	370	120	6.3	220
	07/22/21	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<2.5	**410**	**1,300**	<0.50	1.5	470	120	15.0	230
	8/17/2021*	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	---	---	---	---	---	440	130	7.1	210
	09/15/21	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<2.5	**410**	**1,400**	<0.50	1.6	480	120	3.1	230

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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
	10/14/21	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<0.5	**400**	**1,500**	<0.10	1.6	500	130	4.7	230
	12/30/21	<1.0	<1.0	<1.0	<1.5	--	<10	<10	ND	<2.5	**380**	**1,400**	<1.0	1.2	500	130	3.3	230
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	--	---	---	---	---	---	---	---	---	---	---	---	---
	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	---	---	---	---	---	---	---	---	---	---	---	---	---
	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	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/31/20	<1.0	<1.0	<1.0	<1.5	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/25/20	1.1	<1	<1	<1.5	---	---	---	---	---	---	---	---	---	---	---	---	---
	09/21/20	**170**	140	1.9	22	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/26/20	1.4	3.8	<1.0	3.7	---	---	---	---	---	---	---	---	---	---	---	---	---
	04/12/21	1.5	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/25/21	<1.0	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/15/21	< 1.0	< 1.0	< 1.0	< 1.5	---	---	---	---	---	---	---	---	---	---	---	---	---
	07/22/21	<1.0	<1.0	<1.0	<1.5	---	---	---	---	---	---	---	---	---	---	---	---	---
	08/17/21	1.6	<1.0	<1.0	<1.5	---	---	---	---	---	---	---	---	---	---	---	---	---

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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
	09/15/21	5.6	2.6	<1.0	1.6	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/14/21	23	16	<1.0	7.4	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/30/21	280	140	4	36.0	---	---	---	---	---	---	---	---	---	---	---	---	---
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	--	---	---	---	---	---	---	---	---	---	---	---	---
	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	--	---	---	---	---	---	---	---	---	---	---	---	---
	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	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/31/20	<1.0	<1.0	<1.0	<1.5	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/25/20	2.9	4.5	<1.0	3.1	---	---	---	---	---	---	---	---	---	---	---	---	---
	09/21/20	**450**	640.0	31.0	350.0	--	--	--	--	--	--	--	--	--	--	--	--	---
	10/26/20	1.5	3.9	<1.0	3.6	--	--	--	--	--	--	--	--	--	--	--	--	---
	04/12/21	**12**	23.0	1.1	39.0	--	--	--	--	--	--	--	--	--	--	--	--	---
	05/25/21	<1.0	<1.0	<1.0	3.4	--	--	--	--	--	--	--	--	--	--	--	--	---
	06/15/21	7.7	9.3	<1.0	9.0	--	--	--	--	--	--	--	--	--	--	--	--	---

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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
	07/22/21	9.2	14.0	<1.0	20.0	--	--	--	--	--	--	--	--	--	--	--	--	---
	08/17/21	6.9	5.3	<1.0	12.0	--	--	--	--	--	--	--	--	--	--	--	--	---
	09/15/21	18	17.0	1.1	12.0	--	--	--	--	--	--	--	--	--	--	--	--	---
	10/14/21	46	52.0	2.0	33.0	--	--	--	--	--	--	--	--	--	--	--	--	---
	12/30/21	**770**	790	25	410	--	--	--	--	--	--	--	--	--	--	--	--	---
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**	--	---	---	---	---	---	---	---	---	---	---	---	---
	09/21/16	**1,900**	**2,400**	190	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	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**	--	---	---	---	---	---	---	---	---	---	---	---	---

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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
	10/29/19	**4,500**	**5,000**	190	**2,200**	--	---	---	---	---	---	---	---	---	---	---	---	---
	05/31/20	**3,100**	**4,500**	170	**2,200**	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/25/20	**2,800**	**3,800**	180	**2,000**	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/20	**3,000**	**4,400**	230	**2,500**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/26/20	**2,700**	**4,800**	170	**2,900**	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/13/21	**890**	**1,800**	85	**2,400**	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/25/21	**760**	**1,100**	**<50**	**2,000**	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/15/21	**2,400**	**3,200**	140	**2,600**	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/22/21	**840**	**1,300**	60	**1,500**	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/21	**710**	500	53	**970**	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/15/21	**2,900**	**2,800**	180	**1,700**	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/14/21	**3,200**	**3,600**	150	**1,900**	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/30/21	**3,200**	**3,300**	160	**1,800**	--	--	--	--	--	--	--	--	--	--	--	--	--

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: SWS 1/12/22
Checked by: HRB 1/12/22

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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)
4/22/2021	31	2	0
5/24/2021	1	5	0
6/5/2021	14	15	1
6/24/2021	33	3	1
7/12/2021	65	3	2
7/31/2021	77	2	0
8/3/2021	67	2	0
8/25/2021	10	1	0
9/15/2021	72	1	0
9/30/2021	118	4	2
10/4/2021	127	4	3
10/31/2021	125	1	0

Notes:
ppmV - parts per million per volume

Prepared by: HRB 1/4/2022
Checked by SSD 3/17/2022:

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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)	PSH Recovered (lbs)	Dissolved-Phase Mass Removed (lbs)	Vapor-Phase Mass Removal (lbs)
2015	64,140	310	1,962	2.94	2,405
2016	137,650	350	2,216	5.35	2,026
2017	90,550	1,550	9,812	8.60	3,038
2018	41,420	1,330	8,419	3.12	8,356
2019	24,080	1,550	9,812	2.58	5,760
2020	97,400	940	5,950	8.07	2,918
2021	129,200	342	2,166	5.64	1,980

Notes:
gals - gallons
PSH - phase separated hydrocarbons

Prepared by: HRB 1/3/2022
Checked by SSD: 3/17/2022

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Table 4-7. Temperature Log for Groundwater System Operation
Transwestern Compressor Station No. 9 - Roswell, NM

Date	Temperature High °F	Temperature Low °F	Groundwater System	Comments
10/1/2021	75	55	On	
10/2/2021	80	50	On	
10/3/2021	83	52	On	
10/4/2021	87	54	On	
10/5/2021	89	54	On	
10/6/2021	85	55	On	
10/7/2021	91	53	On	
10/8/2021	95	53	On	
10/9/2021	99	57	On	
10/10/2021	81	45	On	
10/11/2021	85	41	On	
10/12/2021	90	56	On	
10/13/2021	81	45	On	
10/14/2021	80	44	On	
10/15/2021	69	45	On	
10/16/2021	71	38	On	
10/17/2021	75	41	On	
10/18/2021	84	51	On	
10/19/2021	88	46	On	
10/20/2021	81	45	On	
10/21/2021	84	43	On	
10/22/2021	86	48	On	
10/23/2021	91	53	On	
10/24/2021	85	51	On	
10/25/2021	93	48	On	
10/26/2021	87	51	On	
10/27/2021	72	53	On	
10/28/2021	74	41	On	
10/29/2021	73	40	On	
10/30/2021	88	39	On	
10/31/2021	71	47	On	
11/1/2021	69	42	On	
11/2/2021	58	45	On	
11/3/2021	56	40	On	
11/4/2021	66	36	On	
11/5/2021	79	31	On	
11/6/2021	80	40	On	
11/7/2021	83	38	On	
11/8/2021	79	43	Off	GW Sampling Event
11/9/2021	80	44	Off	
11/10/2021	78	43	Off	
11/11/2021	70	46	Off	
11/12/2021	63	37	Off	
11/13/2021	76	32	Off	
11/14/2021	76	40	Off	
11/15/2021	86	36	Off	
11/16/2021	84	38	Off	
11/17/2021	66	38	Off	
11/18/2021	53	27	Off	

Table 4-7. Temperature Log for Groundwater System Operation
Transwestern Compressor Station No. 9 - Roswell, NM

11/19/2021	66	28	Off	GW Sampling Event
11/20/2021	76	34	Off	
11/21/2021	60	38	Off	
11/22/2021	67	25	Off	
11/23/2021	70	32	Off	
11/24/2021	73	49	Off	GW System Off for Repairs
11/25/2021	55	37	Off	
11/26/2021	64	29	Off	
11/27/2021	64	43	Off	
11/28/2021	65	34	Off	
11/29/2021	74	32	Off	
11/30/2021	77	32	Off	
12/1/2021	74	31.0	Off	GW System Off for Repairs
12/2/2021	75	33.0	Off	
12/3/2021	82	36.0	On	
12/4/2021	62	38.0	Off	
12/5/2021	79	29.0	Off	
12/6/2021	51	30.0	Off	
12/7/2021	54	30.0	Off	
12/8/2021	64	31.0	Off	
12/9/2021	76	36.0	Off	
12/10/2021	68	42.0	Off	
12/11/2021	53	27.0	Off	
12/12/2021	64	19.0	Off	
12/13/2021	67	26.0	Off	
12/14/2021	77	31.0	Off	
12/15/2021	80	43.0	Off	
12/16/2021	60	33.0	Off	
12/17/2021	60	35.0	Off	
12/18/2021	50	31.0	Off	
12/19/2021	54	22.0	Off	
12/20/2021	71	19.0	Off	
12/21/2021	69	26.0	Off	
12/22/2021	77	39.0	Off	
12/23/2021	78	34.0	Off	
12/24/2021	81	51.0	Off	
12/25/2021	73	40.0	Off	
12/26/2021	82	39.0	Off	
12/27/2021	70	33.0	Off	
12/28/2021	66	36.0	Off	
12/29/2021	64	33.0	Off	
12/30/2021	63	31.0	Off	
12/31/2021	59	47.0	Off	
1/1/2022	62	19	Off	Winterization of GW system and Long Duration of Freezing Temp
1/2/2022	46	10	Off	
1/3/2022	52	17	Off	
1/4/2022	67	16	Off	
1/5/2022	64	27	Off	
1/6/2022	44	27	Off	
1/7/2022	58	20	Off	
1/8/2022	76	27	Off	
1/9/2022	50	28	Off	
1/10/2022	52	21	Off	
1/11/2022	58	30	Off	
1/12/2022	65	25	Off	
1/13/2022	68	27	Off	

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Table 4-7. Temperature Log for Groundwater System Operation
Transwestern Compressor Station No. 9 - Roswell, NM

1/14/2022	76	30	Off	Winterization of GW system and Long Duration of Freezing Temp
1/15/2022	51	27	Off	
1/16/2022	69	19	Off	
1/17/2022	63	23	Off	
1/18/2022	71	34	Off	
1/19/2022	51	32	Off	
1/20/2022	36	23	Off	
1/21/2022	54	14	Off	
1/22/2022	48	23	Off	
1/23/2022	53	25	Off	
1/24/2022	63	27	Off	
1/25/2022	56	28	Off	
1/26/2022	42	21	Off	
1/27/2022	53	21	Off	
1/28/2022	53	23	Off	
1/29/2022	61	19	Off	
1/30/2022	56	26	Off	
1/31/2022	69	23	Off	
2/1/2022	60	33	Off	
2/2/2022	39	16	Off	
2/3/2022	29	8	Off	
2/4/2022	44	4	Off	
2/5/2022	53	14	Off	
2/6/2022	57	21	Off	
2/7/2022	55	21	Off	
2/8/2022	71	17	On	
2/9/2022	69	29	On	
2/10/2022	63	32	On	
2/11/2022	70	27	On	
2/12/2022	46	27	On	
2/13/2022	63	22	Off	System Off for Frozen Repairs
2/14/2022	73	25	Off	
2/15/2022	82	29	Off	
2/16/2022	76	40	On	
2/17/2022	49	28	On	
2/18/2022	62	19	On	
2/19/2022	67	27	On	
2/20/2022	78	29	On	
2/21/2022	75	35	On	
2/22/2022	73	32	On	
2/23/2022	37	17	Off	Long Duration of Freezing Temp
2/24/2022	50	15	Off	
2/25/2022	51	24	Off	
2/26/2022	53	18	Off	
2/27/2022	59	26	Off	
2/28/2022	62	27	Off	

Notes:
Temperatures reported in degree fahrenheit.

Souce: Accuweather

Prepared by: AP 3/17/2022
Checked by: SD 3/22/2022

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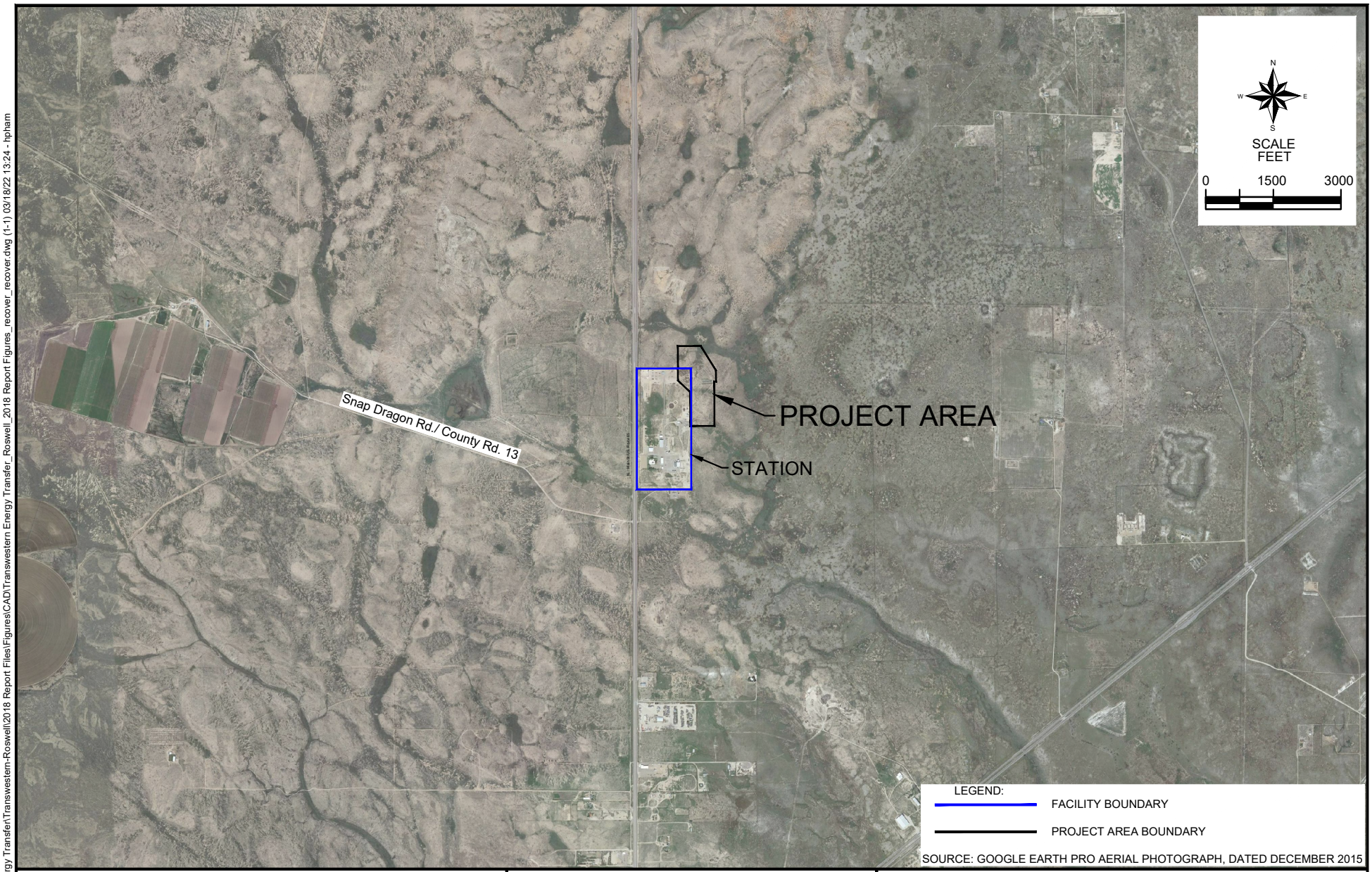
FIGURES



REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

WSP USA, Inc.

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

PROJECT AREA LOCATION MAP

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SSD	03/17/22	1-1

FILENAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover.dwg (1-1) 03/18/22 13:24 - hpham

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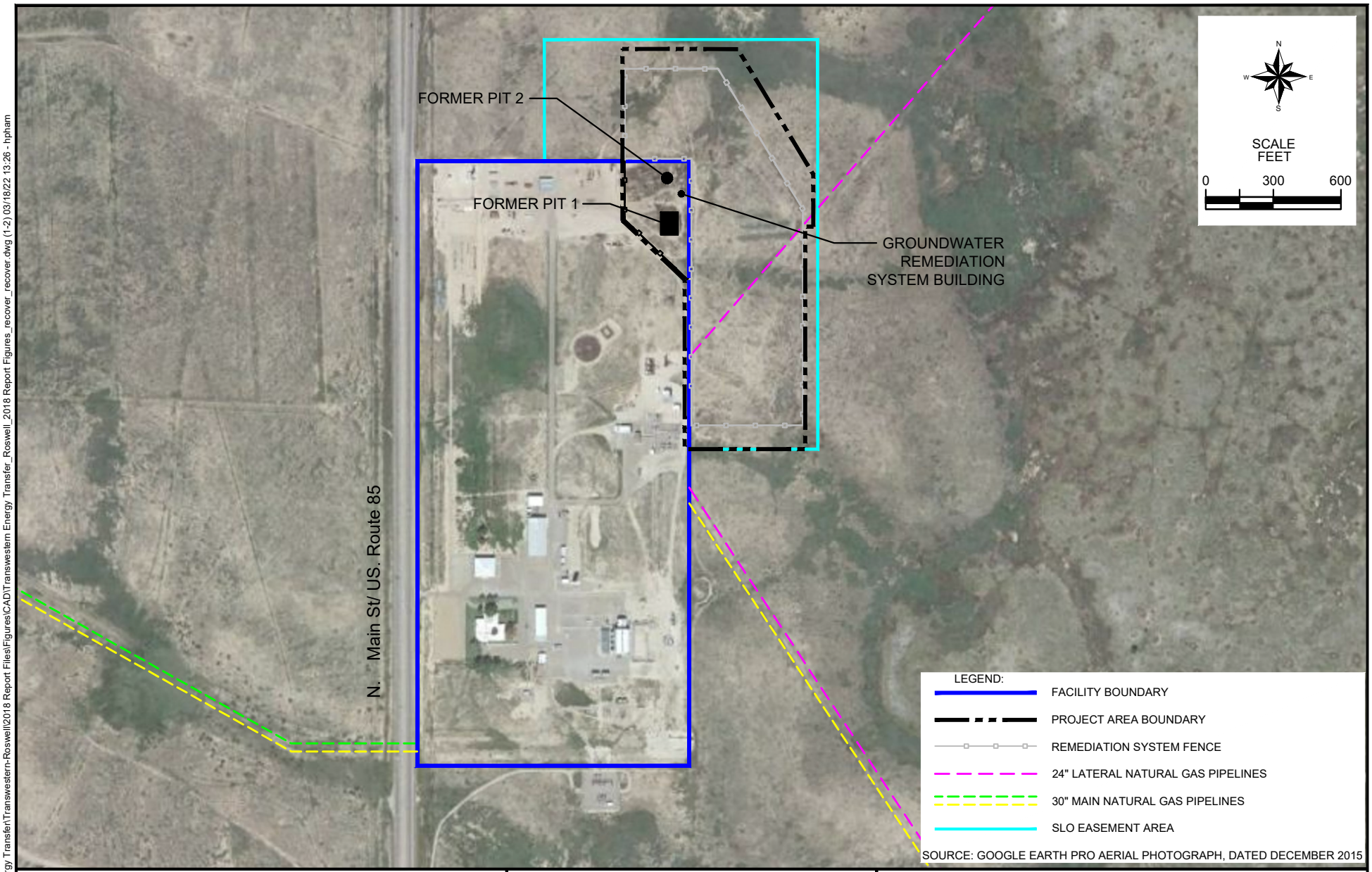

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

WSP USA, Inc.

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

PROJECT AREA FEATURES

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SSD	03/17/22	1-2

FILENAME:S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover.dwg (1-2) 03/18/22 13:26 - hpham

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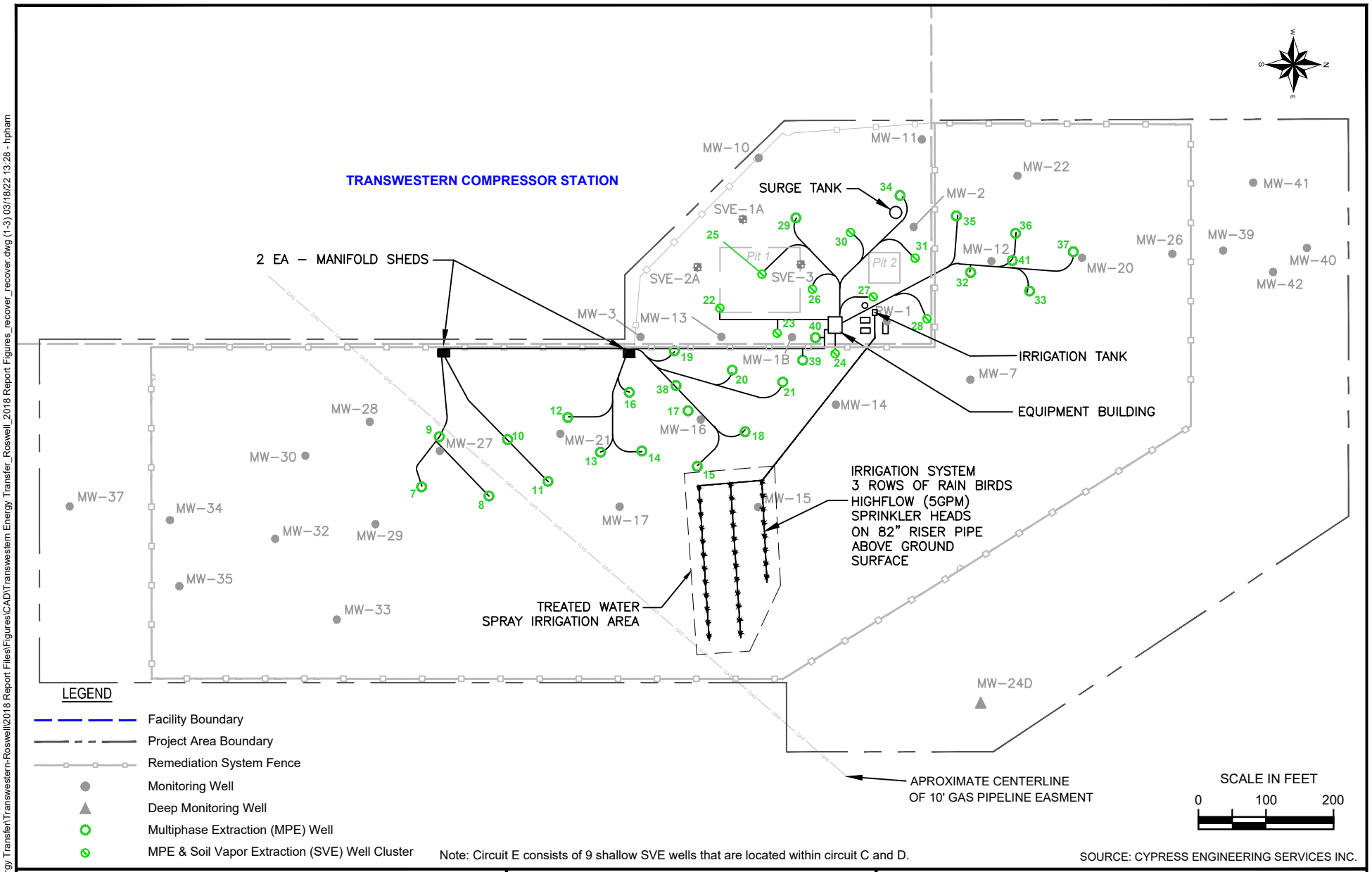

Note: Circuit E consists of 9 shallow SVE wells that are located within circuit C and D.

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

WSP USA, Inc.

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

REMEDIATION SYSTEM LAYOUT

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SSD	03/17/22	1-3

FILENAME:S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover.dwg (1-3) 03/18/22 13:28 - hpham

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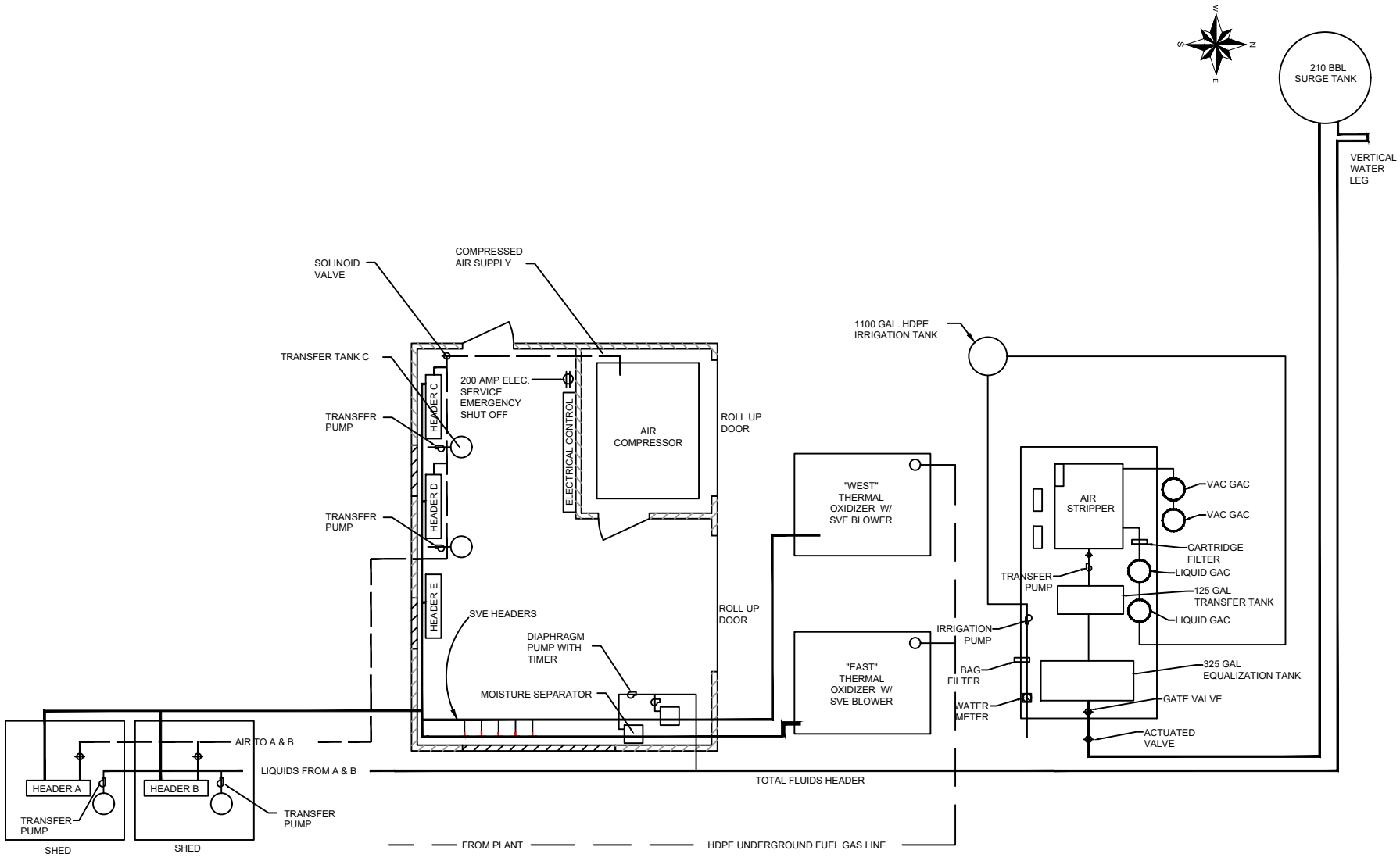

(NOT TO SCALE)

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
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(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

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REMEDIATION SYSTEM
EQUIPMENT COMPOUND DETAIL

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SSD	03/18/22	1-4

FILENAME:S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover.dwg (1-4) 03/18/22 13:34 - hpham

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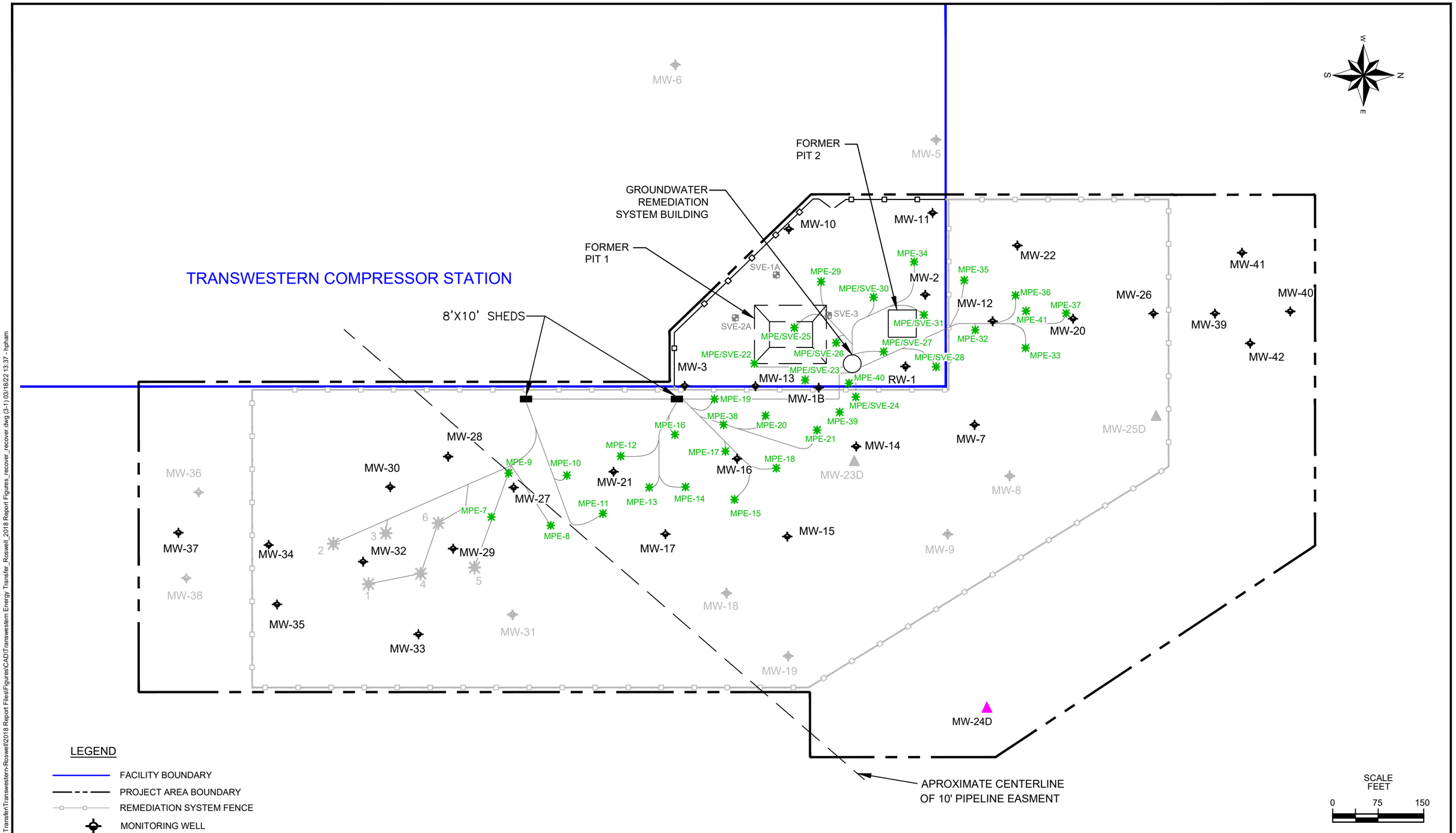

LEGEND

- 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)

SCALE FEET: 0 — 75 — 150

SOURCE: CYPRESS ENGINEERING SERVICES INC.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No. 9
(ROSWELL COMPRESSOR STATION)
ROSWELL, CHAVES COUNTY, NEW MEXICO

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WSP USA, Inc.
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WELL LOCATIONS

DRAWN:	CHECKED:	DATE:	FIGURE:
HVP	SSD	03/18/22	3-1

FILE NAME: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2018 Report Files\Figures\CAD\Transwestern Energy Transfer_Roswell_2018 Report Figures_recover_recover.dwg (3-1) 03/18/22 13:37 - hpham

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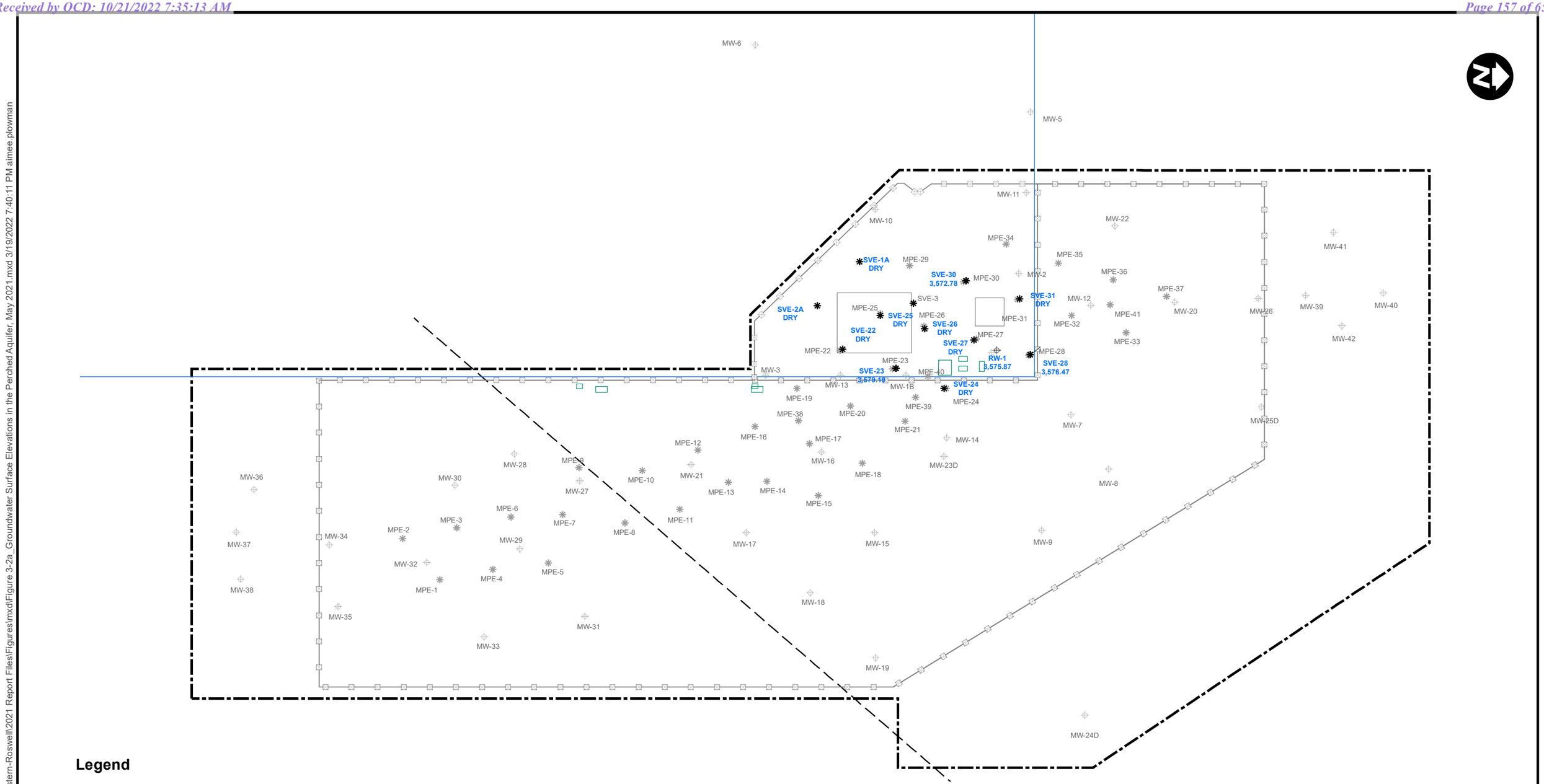
Released to Imaging: 11/22/2022 8:38:59 AM



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

Note: RW-1, SVE-23, SVE-28, SVE-30 are in the Perched Aquifer and required to be sampled per the approved 2020 Sampling Plan.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)
ROSWELL. CHAVES COUNTY, NEW MEXICO

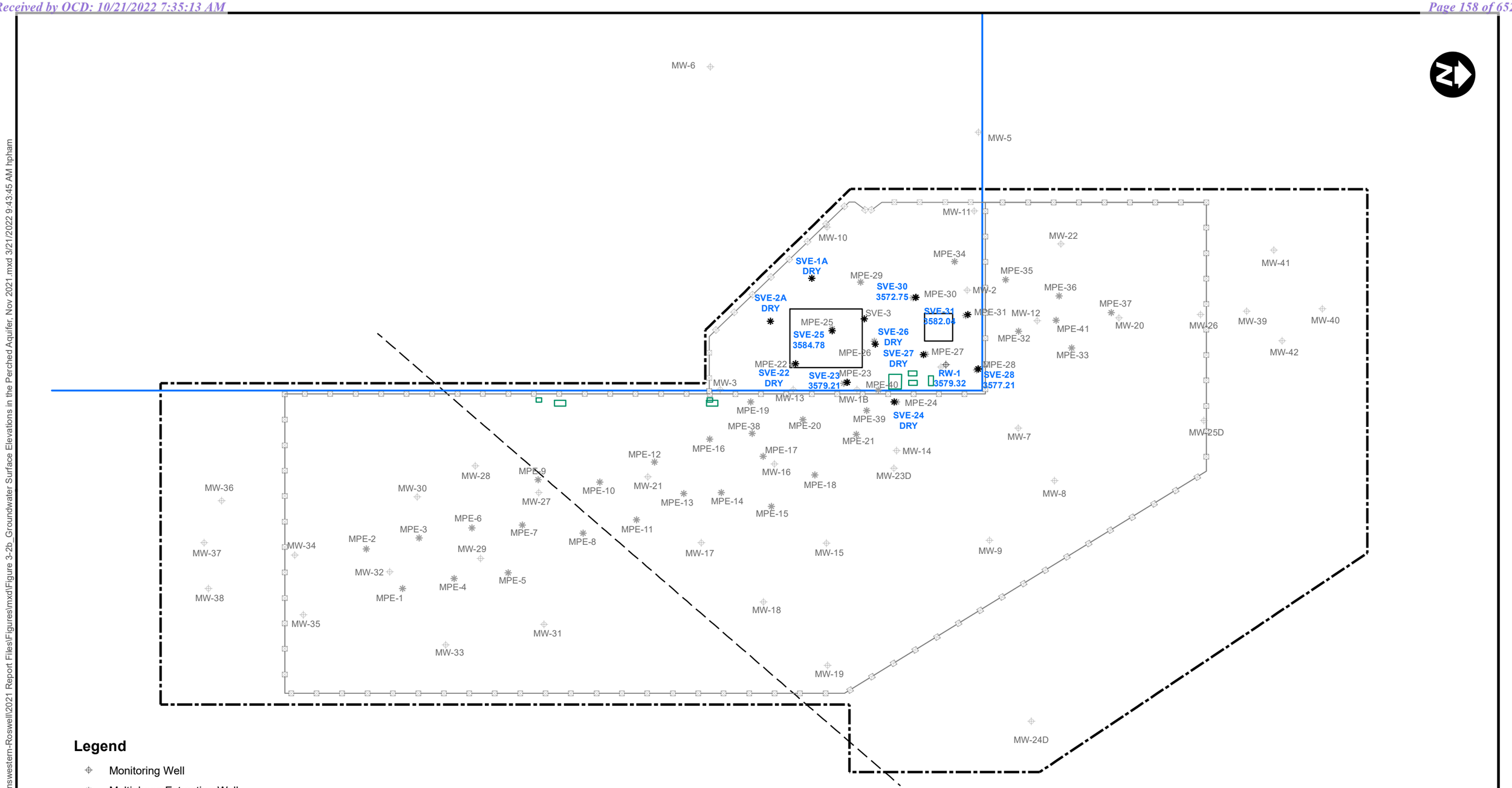
PROJECT NO. EC02.20210005.00

WSP USA, Inc.
1880 West Oak Pkwy, Building 100, Suite 106
Marietta, GA 30062
(770)-973-2100

Groundwater Surface Elevations in the Perched Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-2a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-2a_Groundwater Surface Elevations in the Perched Aquifer, May 2021.mxd 3/19/2022 7:40:11 PM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

Note: RW-1, SVE-23, SVE-28, SVE-30 are in the Perched Aquifer and required to be sampled per the approved 2020 Sampling Plan.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)

ROSWELL. CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

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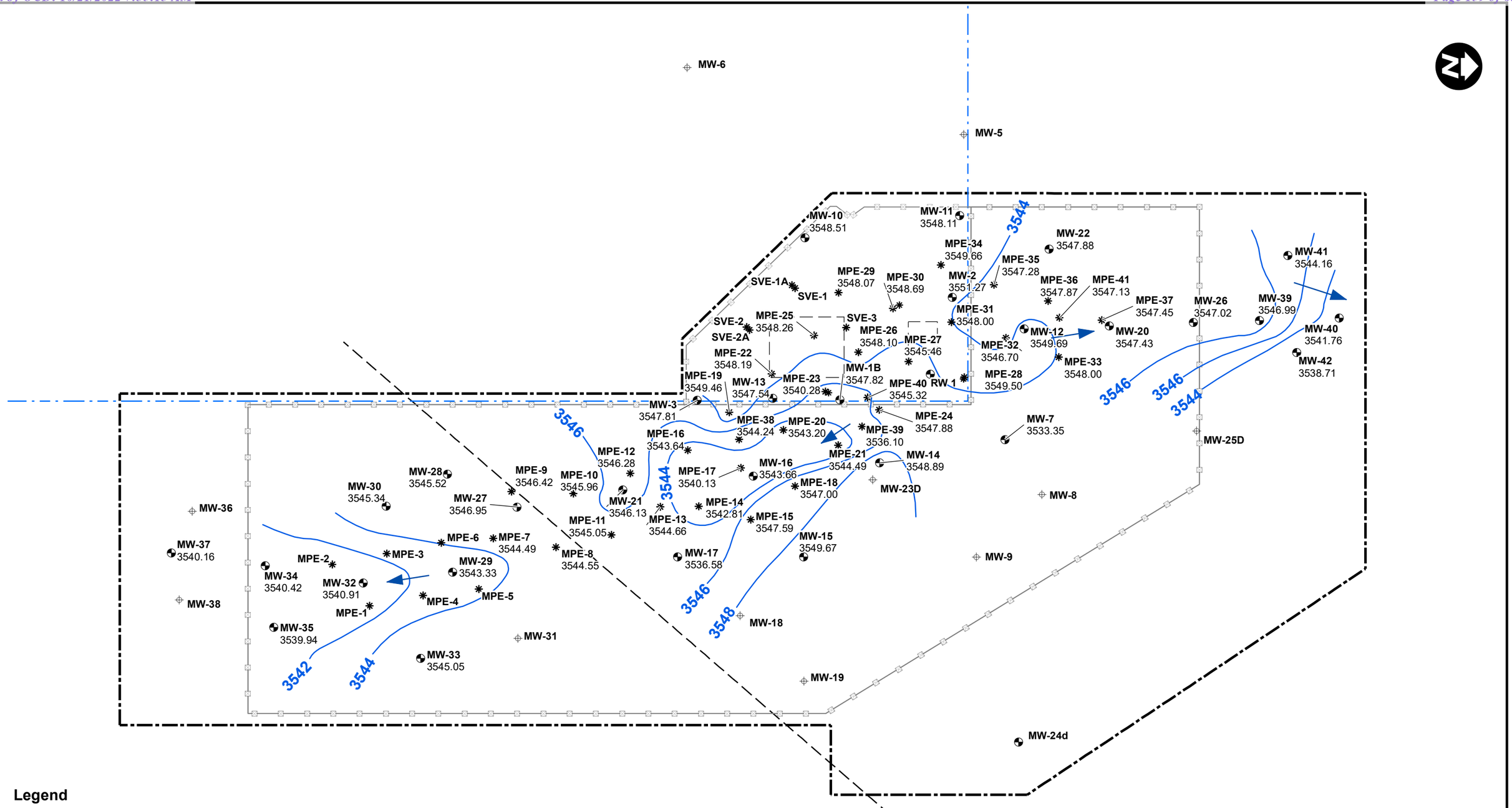
Marietta, GA 30062
(770)-973-2100

Groundwater Surface Elevations in the Perched Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-2b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-2b_Groundwater Surface Elevations in the Perched Aquifer, Nov 2021.mxd 3/21/2022 9:43:45 AM hpham



REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)

ROSWELL. CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

WSP USA, Inc.
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Marietta, GA 30062
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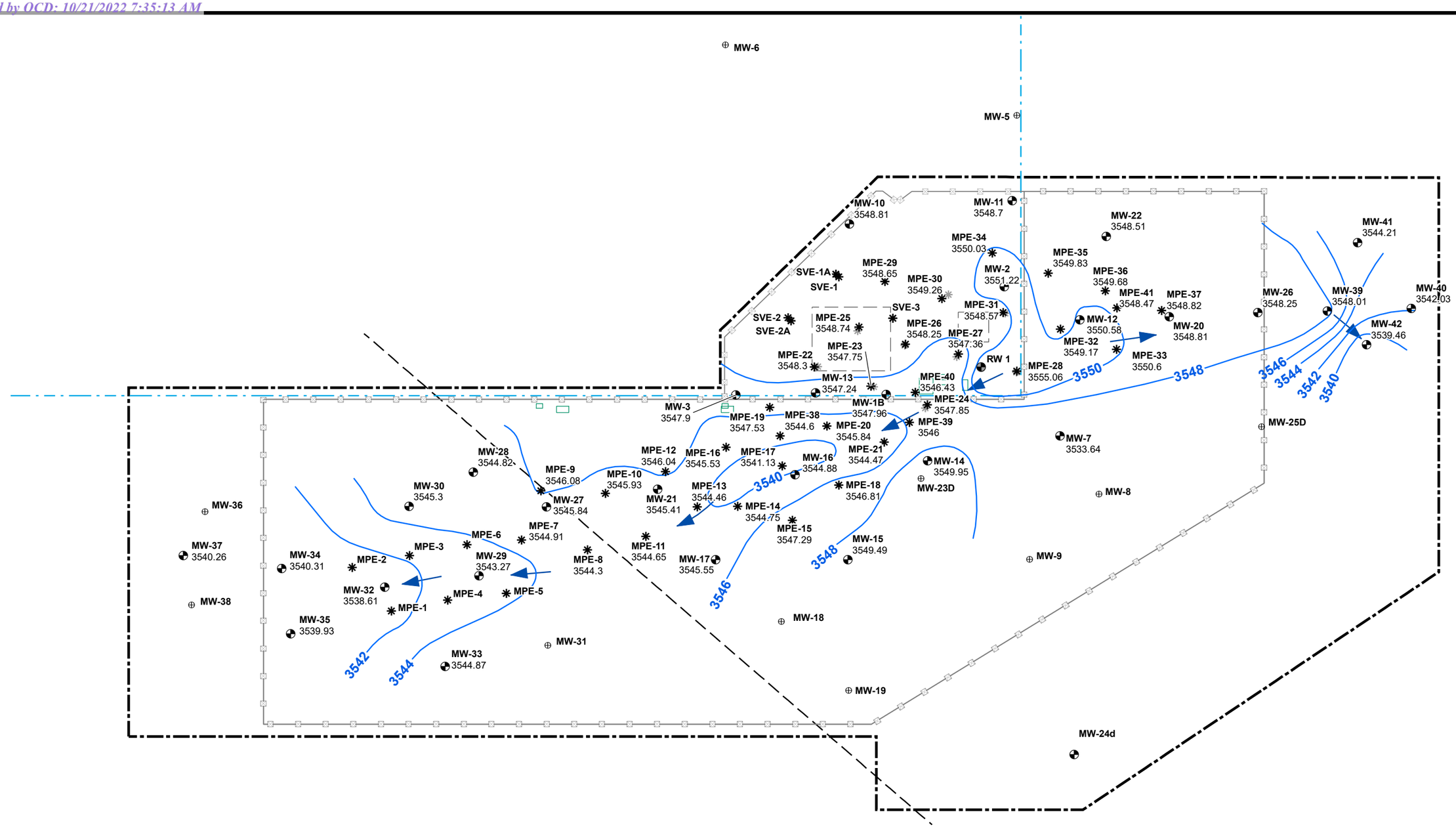
Groundwater Surface Elevations in the Upper Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
HVP	SSD	MAR 2022	3-3a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-3a_Groundwater Surface Elevations in the Upper Aquifer, May 2021.mxd 3/18/2022 6:47:32 PM hpham



Legend

- Monitoring Well
- Multi-Phase Extraction Well
- Old Monitoring Well
- Potentiometric Groundwater Contour
- Groundwater Flow Direction
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)

ROSWELL. CHAVES COUNTY, NEW MEXICO

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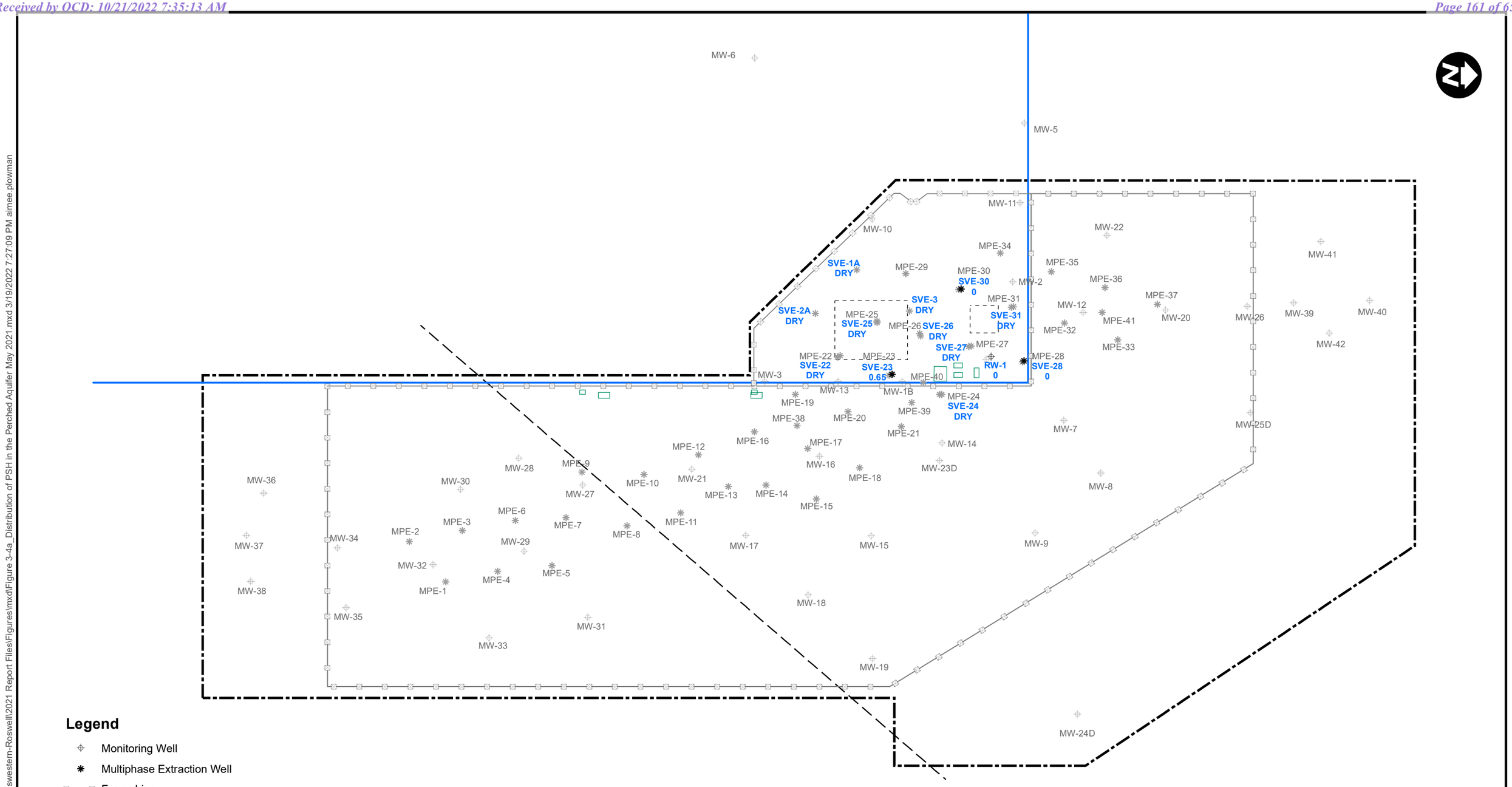
Groundwater Surface Elevations in the Upper Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
HVP	SSD	MAR 2022	3-3b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-3b_Groundwater Surface Elevations in the Upper Aquifer, Nov 2021.mxd 3/19/2022 7:30:41 PM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- 2.98 PSH thickness in feet

0 75 150 300 Feet

Note: Rw-1, SVE-23, SVE-28, SVE-30 are in the Perched Aquifer and required to be sampled per the approved 2020 Sampling Plan.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)
ROSWELL. CHAVES COUNTY, NEW MEXICO

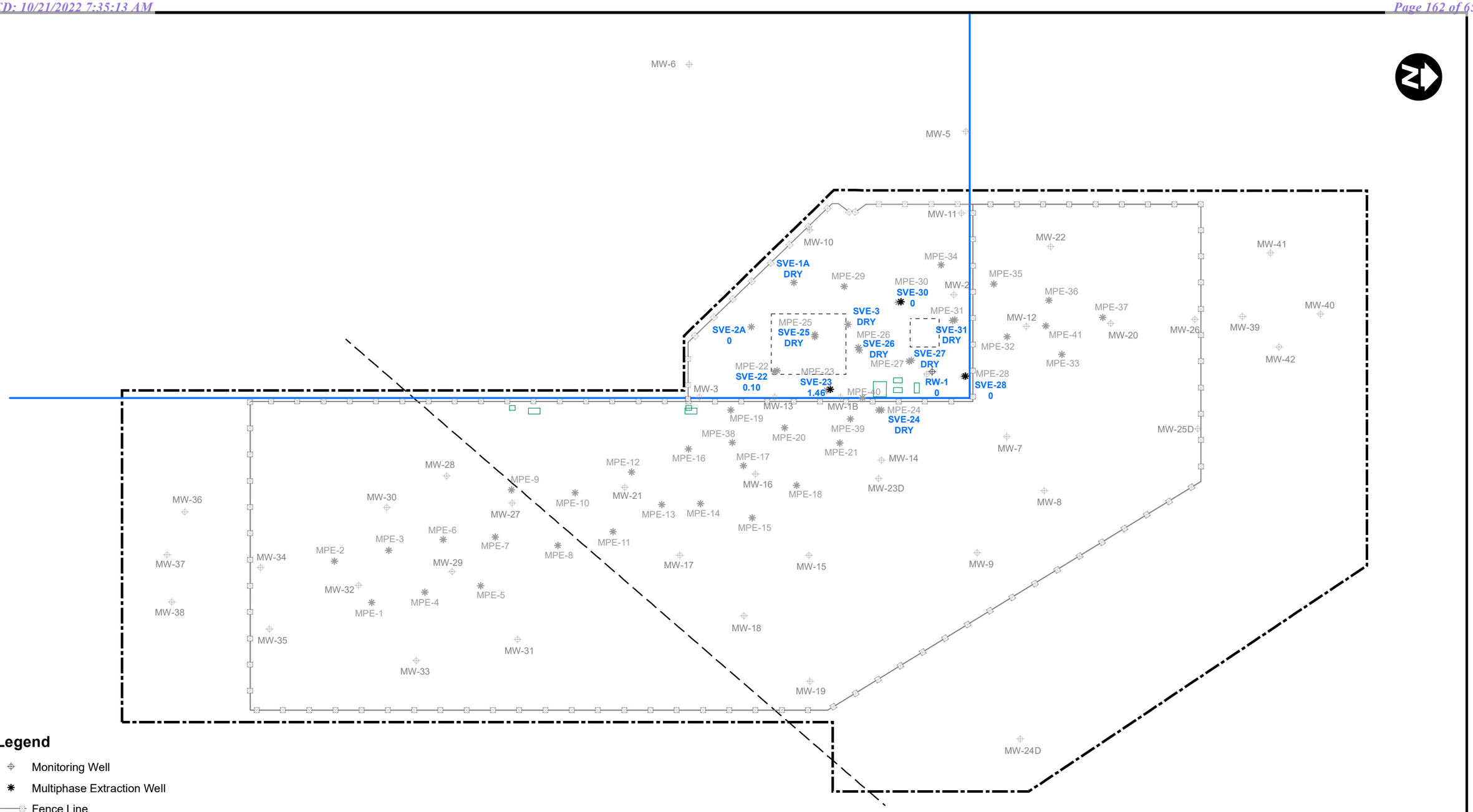
PROJECT NO. EC02.20210005.00

WSP USA, Inc.
1880 West Oak Pkwy, Building 100, Suite 106
Marietta, GA 30062
(770)-973-2100

Distribution of PSH in the Perched Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-4a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-4a_Distribution of PSH in the Perched Aquifer May 2021.mxd 3/19/2022 7:27:09 PM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- 1.17 PHS thickness in feet

0 75 150 300 Feet

Note: RW-1, SVE-23, SVE-28, SVE-30 are in the Perched Aquifer and required to be sampled per the approved 2020 Sampling Plan.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)

ROSWELL. CHAVES COUNTY, NEW MEXICO

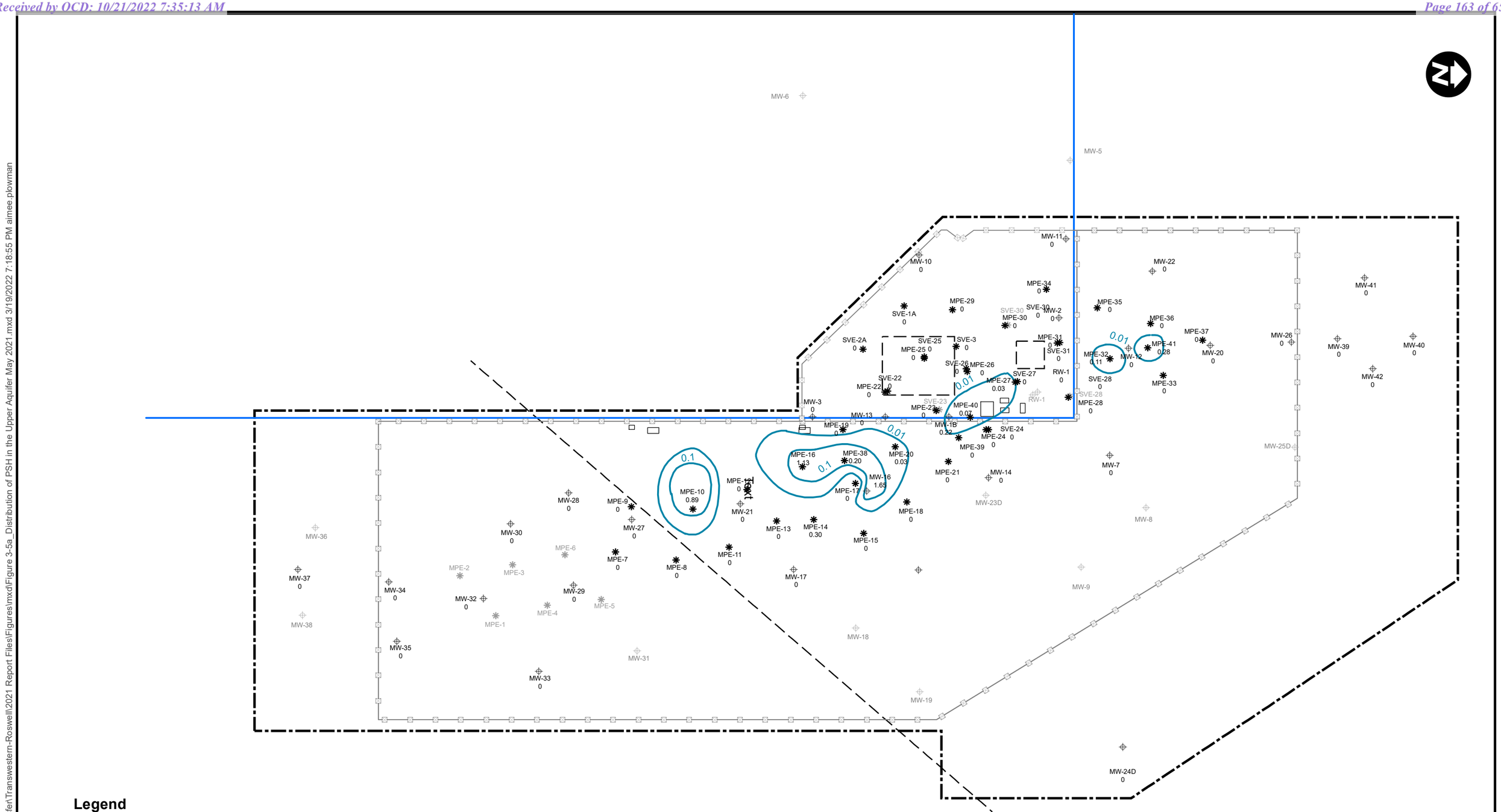
PROJECT NO. EC02.20210005.00

WSP USA, Inc.
1880 West Oak Pkwy, Building 100, Suite 106
Marietta, GA 30062
(770)-973-2100

Distribution of PSH in the Perched Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-4b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-4b_Distribution of PSH in the Perched Aquifer Nov 2021.mxd 3/19/2022 7:22:30 PM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- PSHContours_Upper_May2021
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)

ROSWELL. CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

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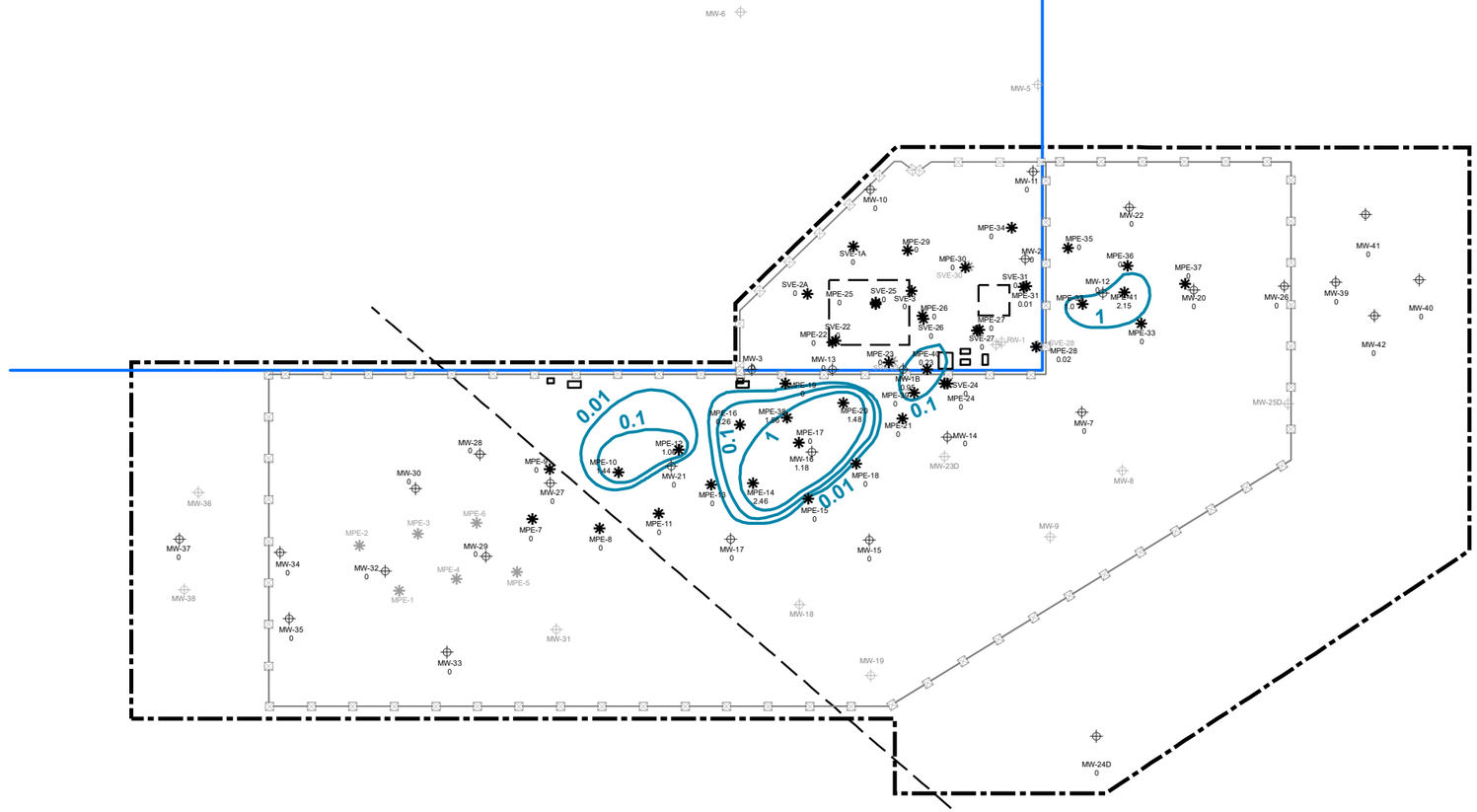
Marietta, GA 30062
(770)-973-2100

Distribution of PSH in the Upper Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-5a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-5a_Distribution of PSH in the Upper Aquifer May 2021.mxd 3/19/2022 7:18:55 PM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- PSH_Contour_Upper_Aquifer_NOV_2021_GR
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)

ROSWELL. CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

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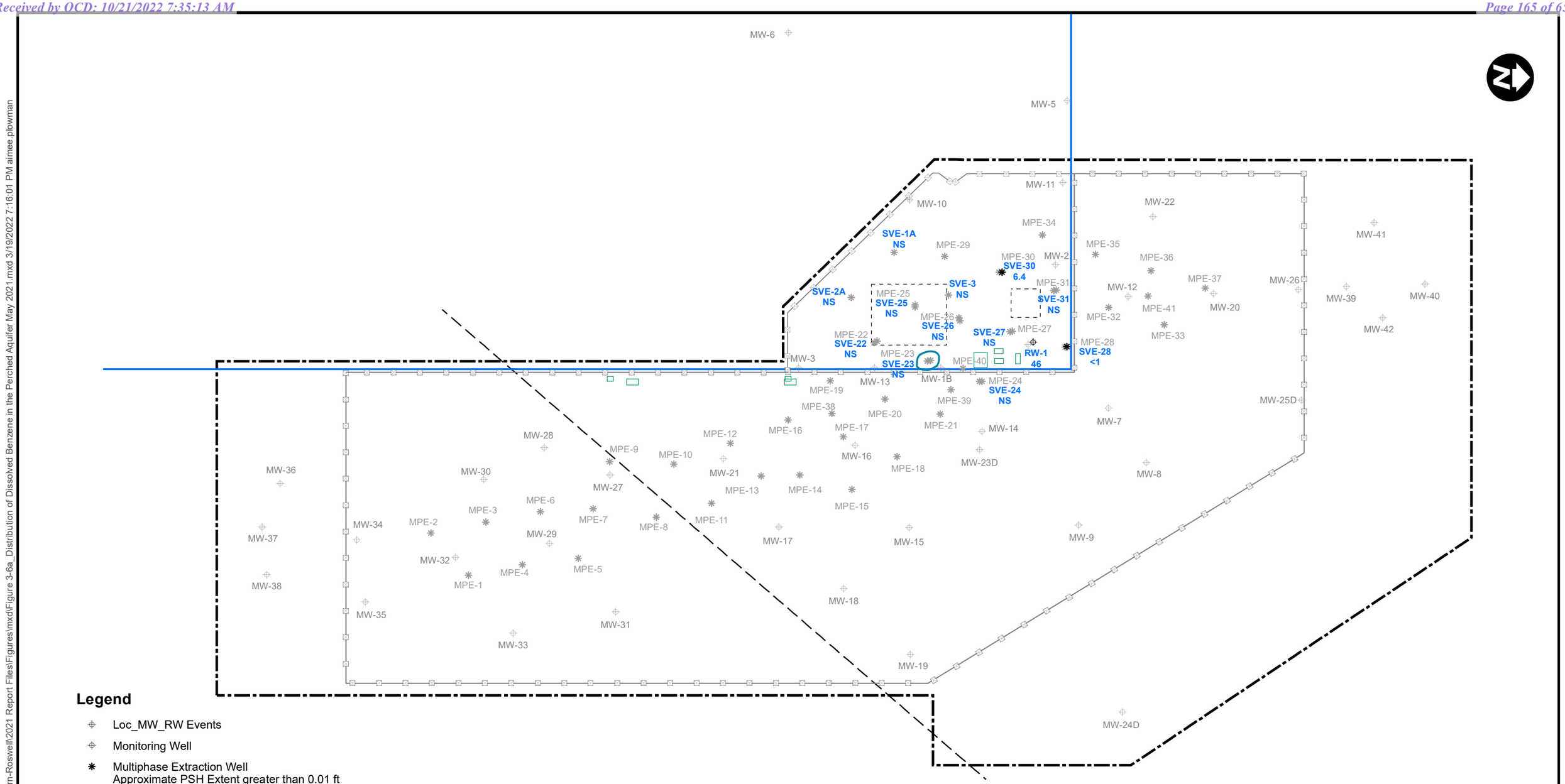
Marietta, GA 30062
(770)-973-2100

Distribution of PSH in the Upper Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-5b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-5b_Updated_Distribution of PSH in the Upper Aquifer Nov 2021.mxd 3/19/2022 7:12:37 PM aimee.plowman



Legend

- Loc_MW_RW Events
- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Perched Aquifer (May 2021)
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- **5.7** Benzene Concentration in ug/L
- **NS** Not sampled in accordance with SAP.

0 75 150 300 Feet

Note: Rw-1, SVE-23, SVE-28, SVE-30 are in the Perched Aquifer and required to be sampled per the approved 2020 Sampling Plan.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)

ROSWELL. CHAVES COUNTY, NEW MEXICO

PROJECT NO. EC02.20210005.00

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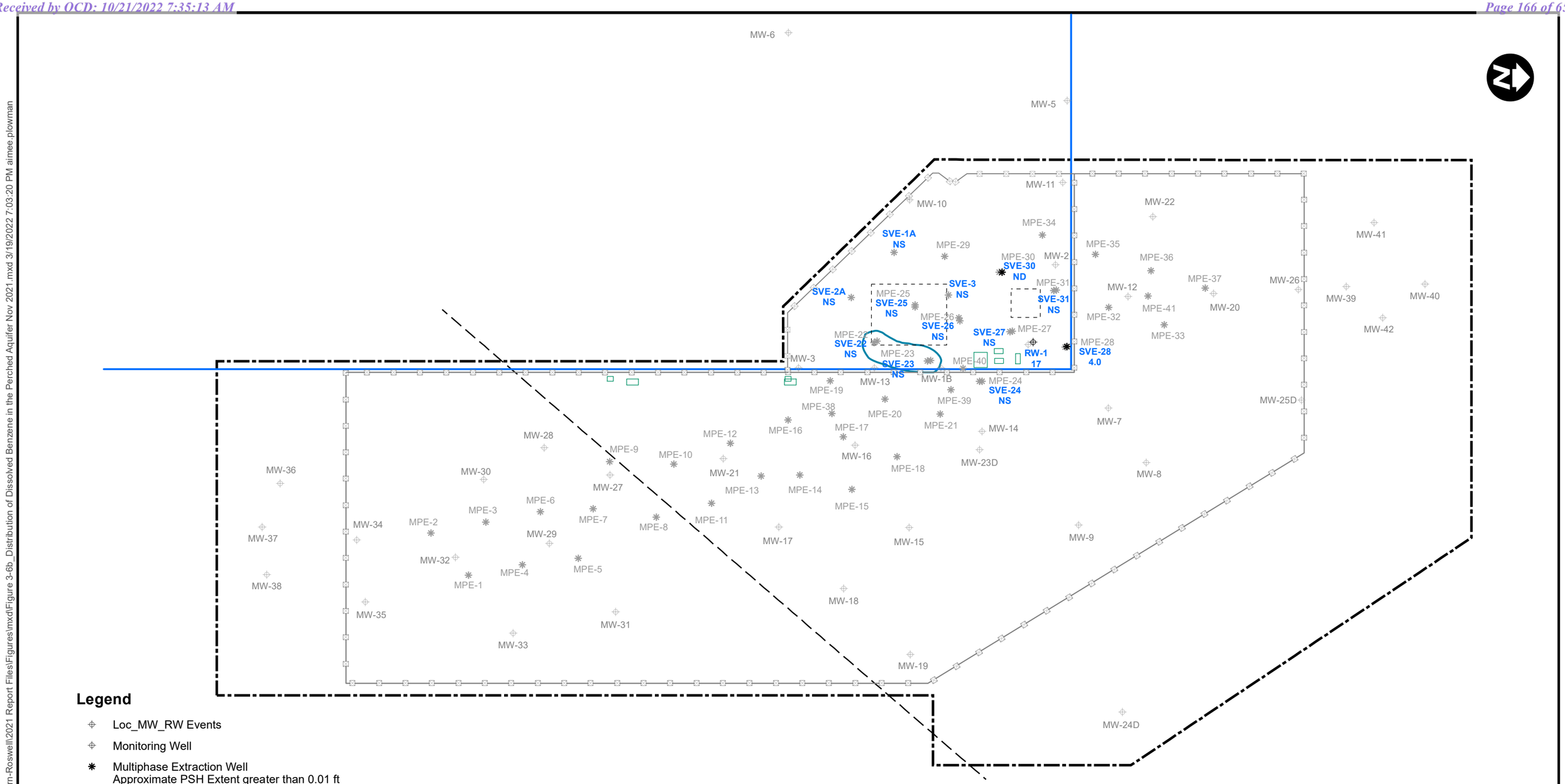
(770)-973-2100

Distribution of Dissolved Benzene in the Perched Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-6a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-6a_Distribution of Dissolved Benzene in the Perched Aquifer May 2021.mxd 3/19/2022 7:16:01 PM aimee.plowman



Legend

- Loc_MW_RW Events
- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Perched Aquifer (Nov 2021)
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- **5.7** Benzene Concentration in ug/L
- **NS** Not sampled in accordance with SAP.

0 75 150 300 Feet

Note: Rw-1, SVE-23, SVE-28, SVE-30 are in the Perched Aquifer and required to be sampled per the approved 2020 Sampling Plan.

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
TRANSWESTERN COMPRESSOR STATION No.9
(ROSWELL COMPRESSOR STATION)
ROSWELL. CHAVES COUNTY, NEW MEXICO

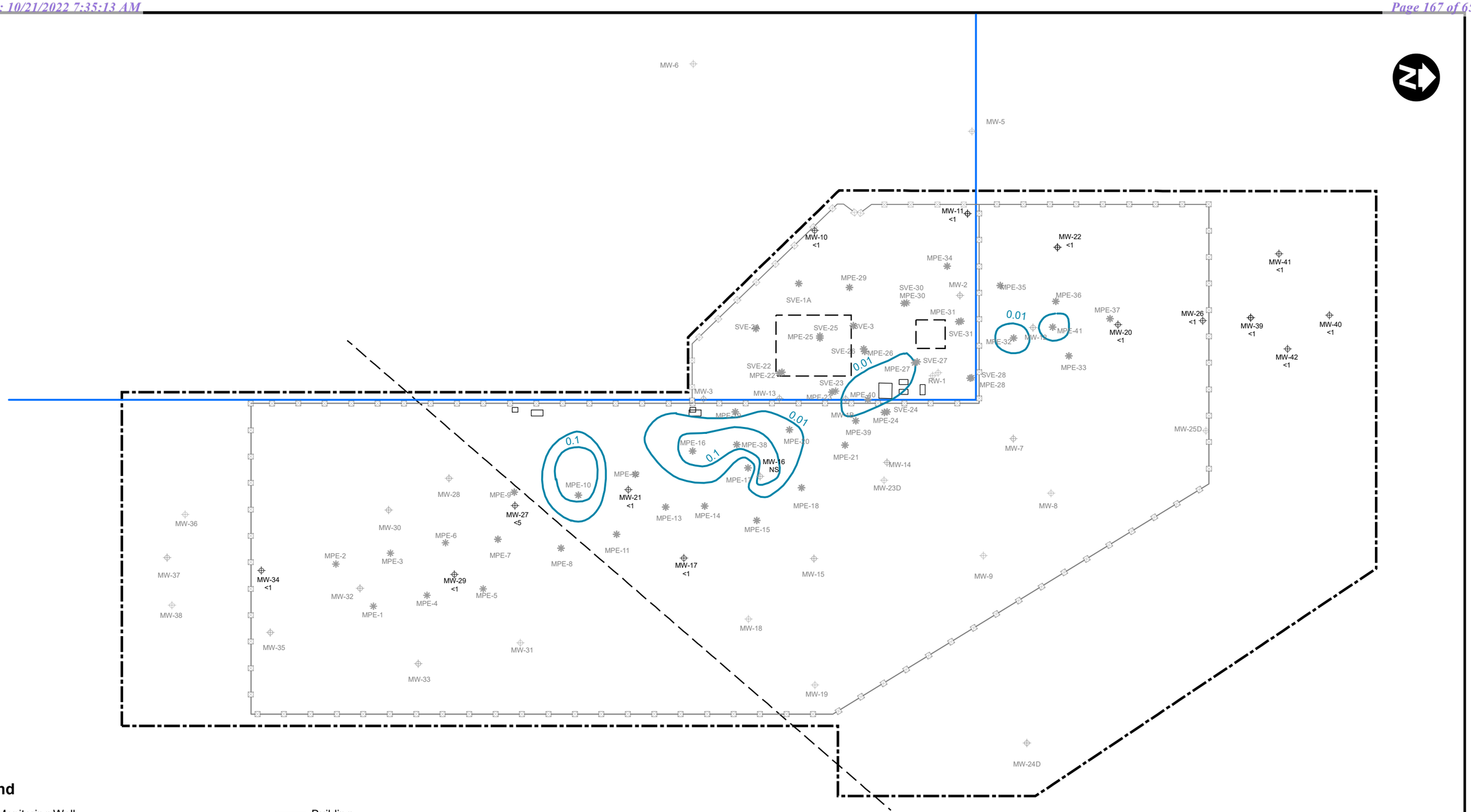
PROJECT NO. EC02.20210005.00

WSP USA, Inc.
1880 West Oak Pkwy, Building 100, Suite 106
Marietta, GA 30062
(770)-973-2100

Distribution of Dissolved Benzene in the Perched Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-6b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-6b_Distribution of Dissolved Benzene in the Perched Aquifer Nov 2021.mxd 3/19/2022 7:03:20 PM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Upper Aquifer (May 2021)
- Fence Line
- 5.3 Benzene Concentration in ug/L
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

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(770-)973-2100

Distribution of Dissolved Benzene in the Upper Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-7a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-7a_Distribution of Dissolved Benzene in the Upper Aquifer May 2021.mxd 3/19/2022 6:57:05 PM aimee.plowman

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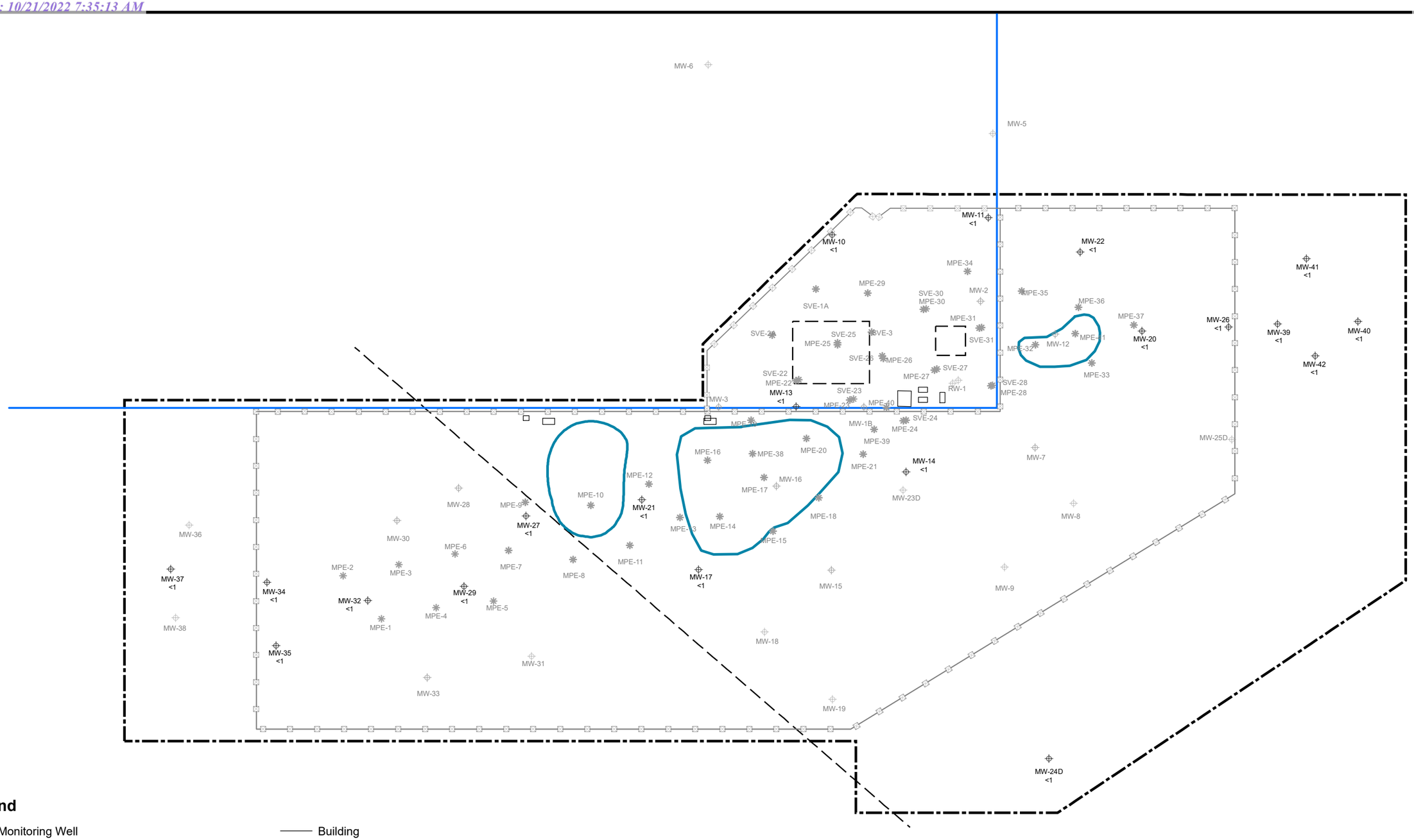

Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Upper Aquifer (Nov 2021)
- Fence Line
- 5.3 Benzene Concentration in ug/L
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
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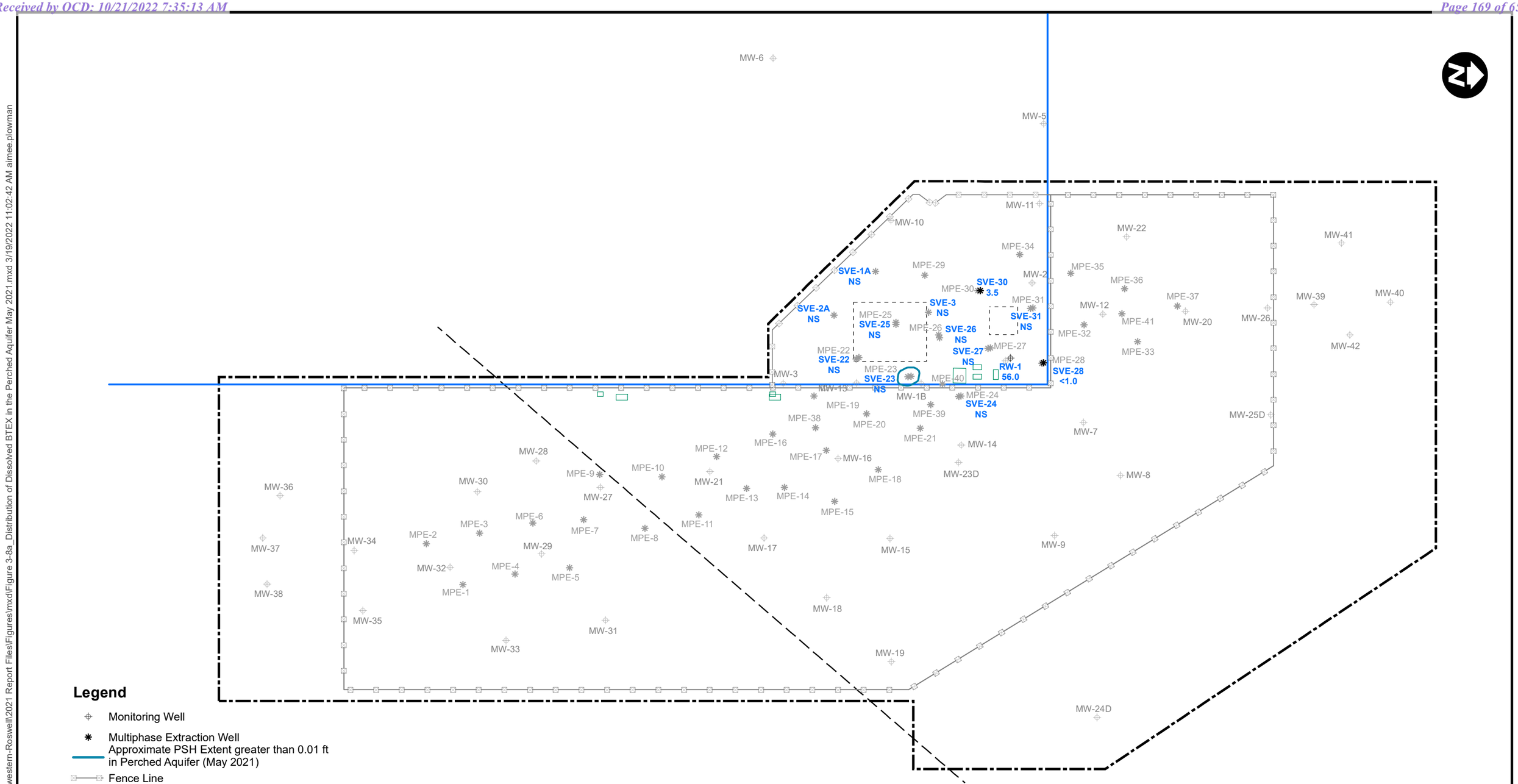
Distribution of Dissolved Benzene in the Upper Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-7b



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Perched Aquifer (May 2021)
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- 13.7 BTEX Concentration in ug/L
- NS Not sampled in accordance with SAP.

0 75 150 300 Feet

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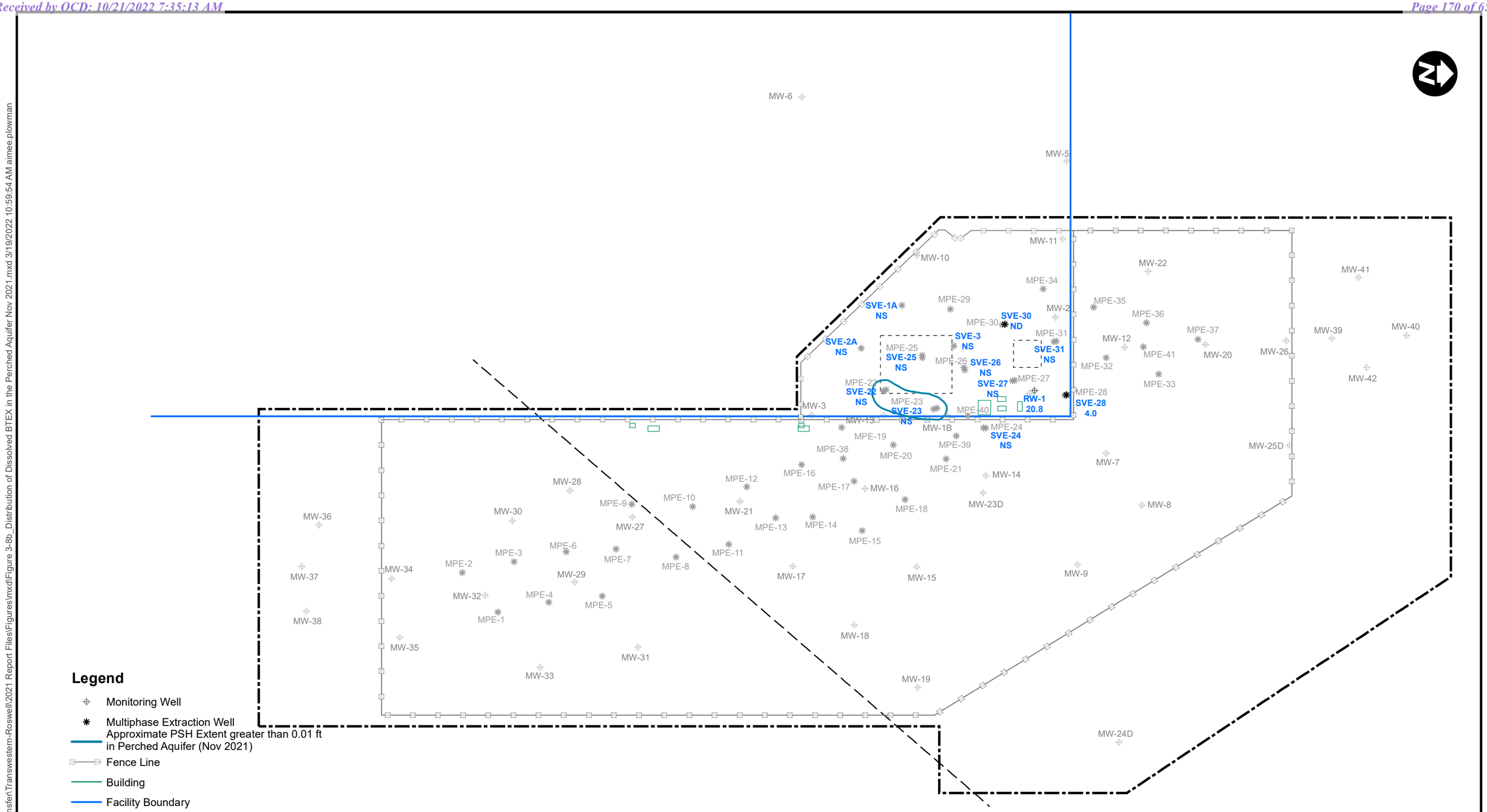
Distribution of Dissolved BTEX in the Perched Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-8a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-8a_Distribution of Dissolved BTEX in the Perched Aquifer May 2021.mxd 3/19/2022 11:02:42 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Perched Aquifer (Nov 2021)
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- 13.7 BTEX Concentration in ug/L
- NS Not sampled in accordance with SAP.

0 75 150 300 Feet

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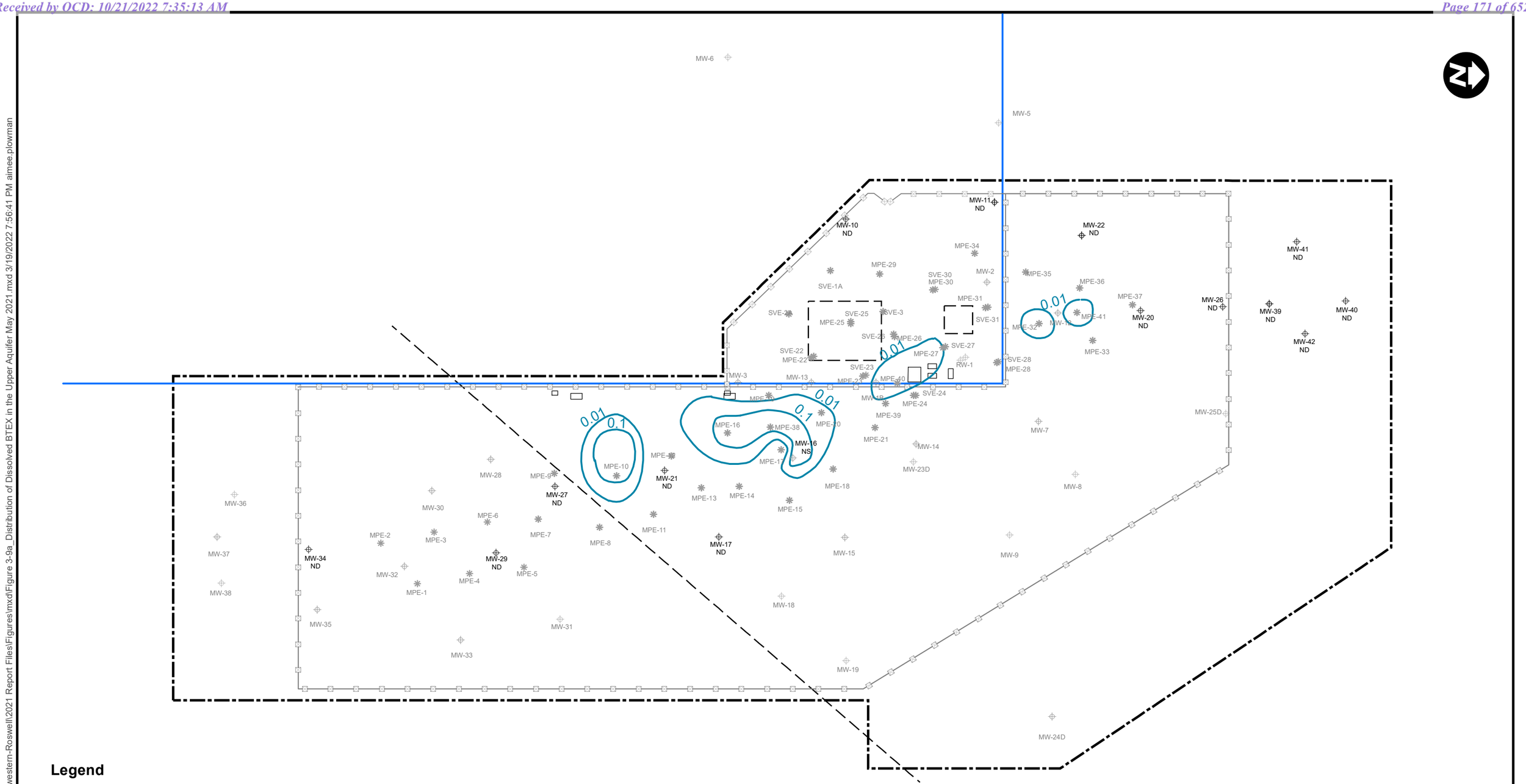
Distribution of Dissolved BTEX in the Perched Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-8b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-8b_Distribution of Dissolved BTEX in the Perched Aquifer Nov 2021.mxd 3/19/2022 10:59:54 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Upper Aquifer (May 2021)
- Fence Line
- 5.3 BTEX Concentration in ug/L
- ND Non-Detect
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
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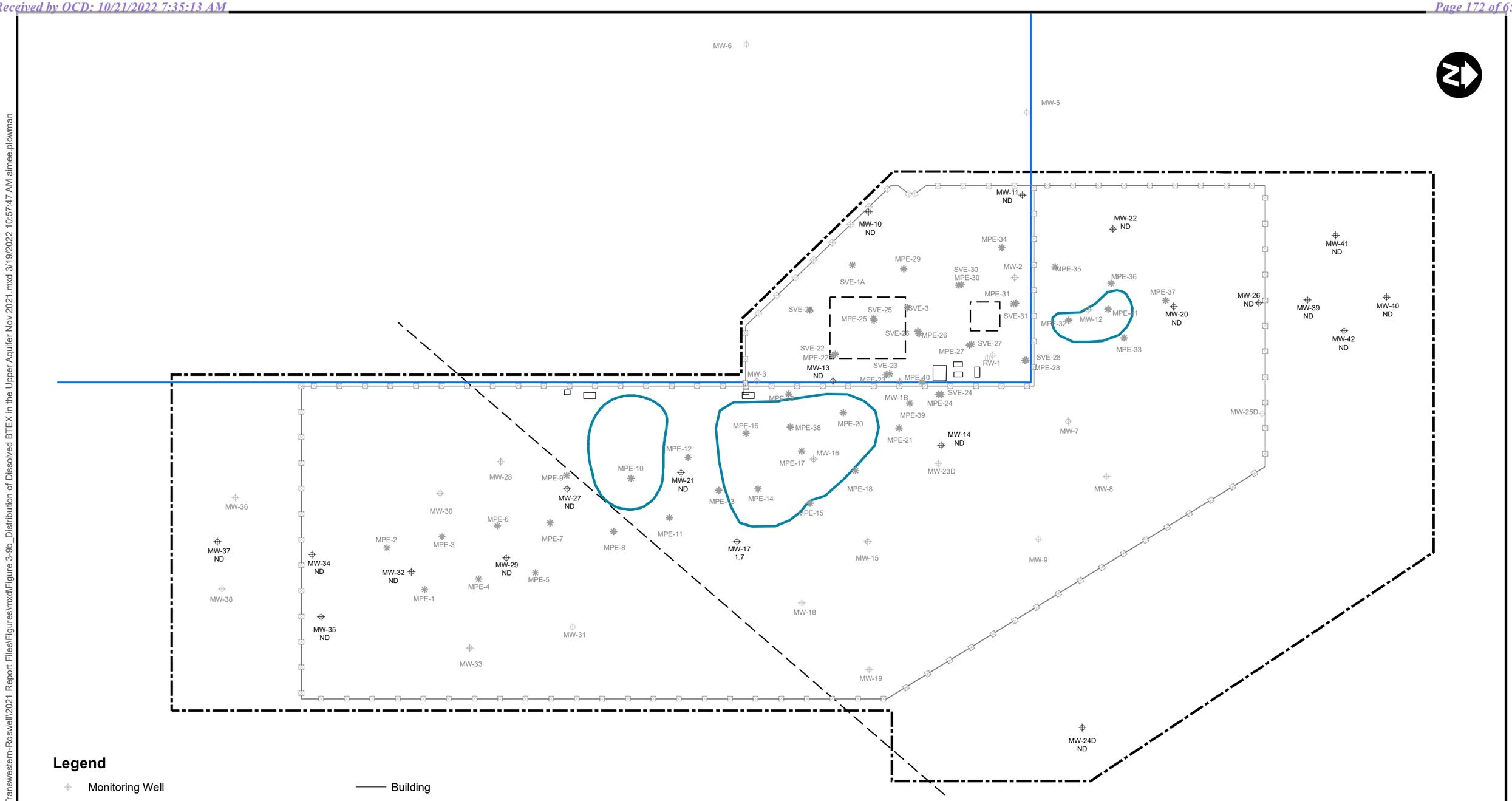
Distribution of Dissolved BTEX in the Upper Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	SD	MAR 2022	3-9a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-9a_Distribution of Dissolved BTEX in the Upper Aquifer May 2021.mxd 3/19/2022 7:56:41 PM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Upper Aquifer (Nov 2021)
- Fence Line
- 5.3 BTEX Concentration in ug/L
- ND Non-detect
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
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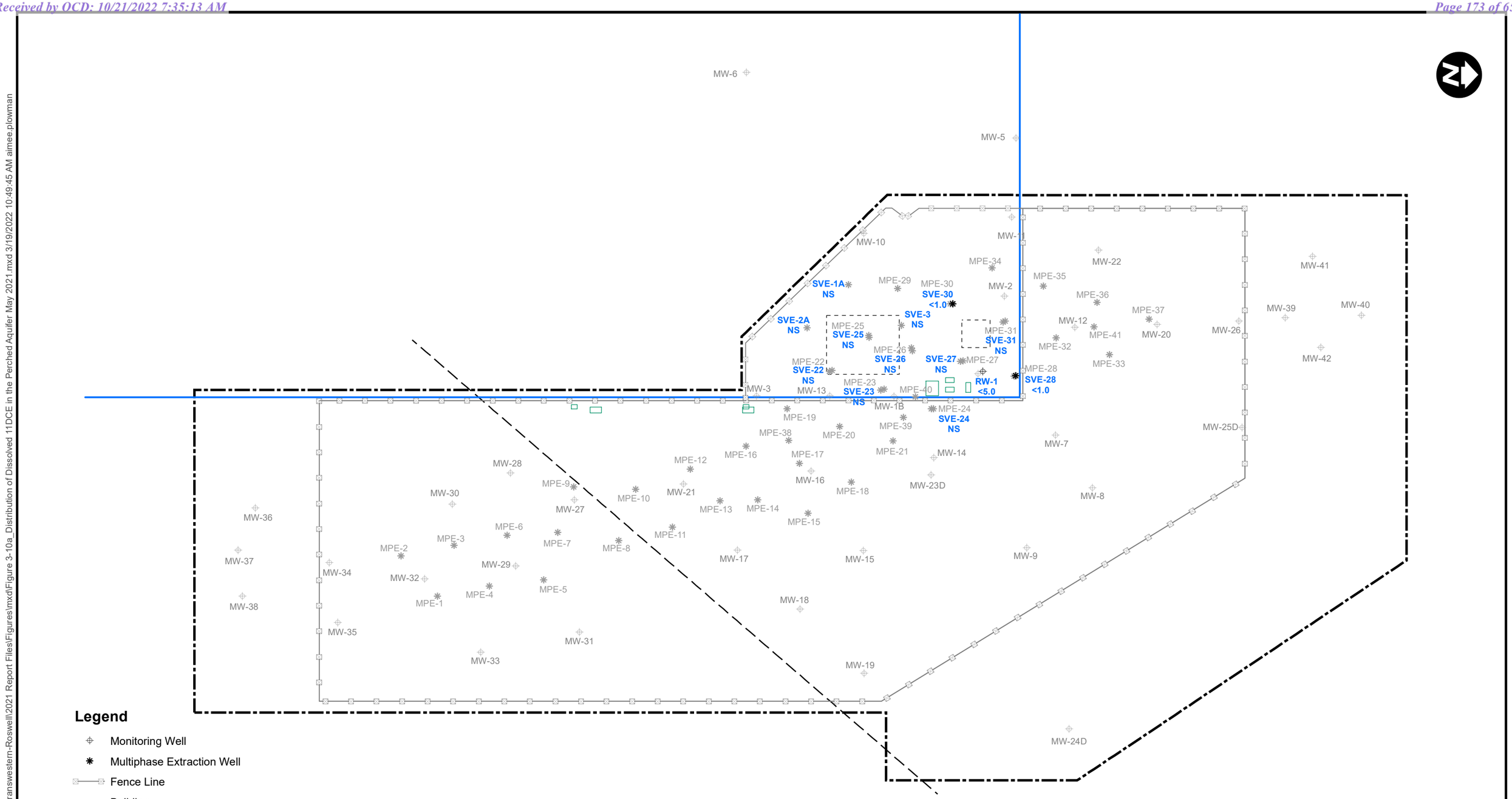
Distribution of Dissolved BTEX in the Upper Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-9b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-9b_Distribution of Dissolved BTEX in the Upper Aquifer Nov 2021.mxd 3/19/2022 10:57:47 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- **<1.0** 1,1-DCE Concentration in ug/L
- **NS** Not sampled in accordance with SAP.

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
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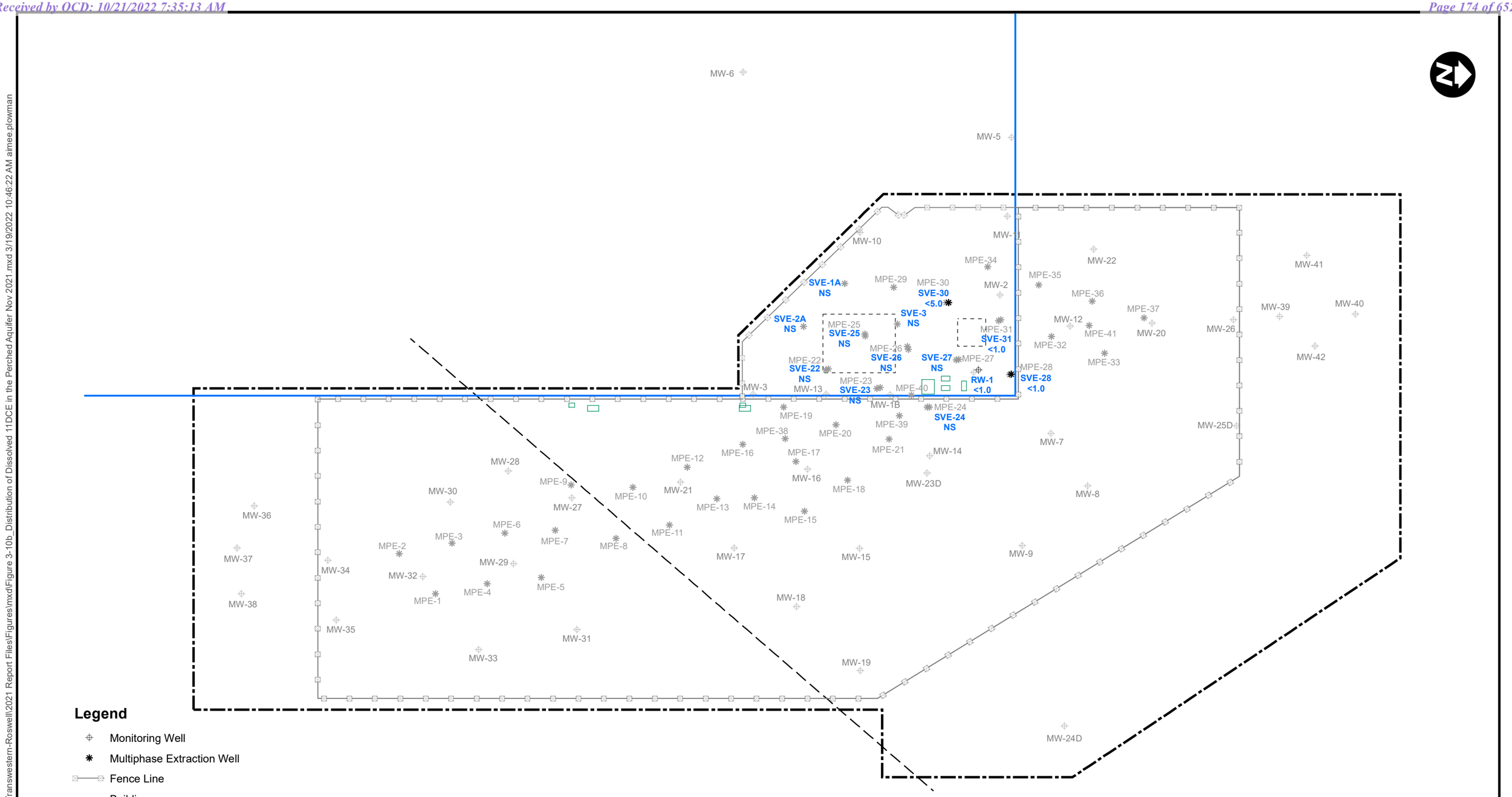
Distribution of Dissolved 1,1-DCE in the Perched Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-10a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-10a_Distribution of Dissolved 11DCE in the Perched Aquifer May 2021.mxd 3/19/2022 10:49:45 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- **<1.0** 1,1-DCE Concentration in ug/L
- **NS** Not sampled in accordance with SAP.

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
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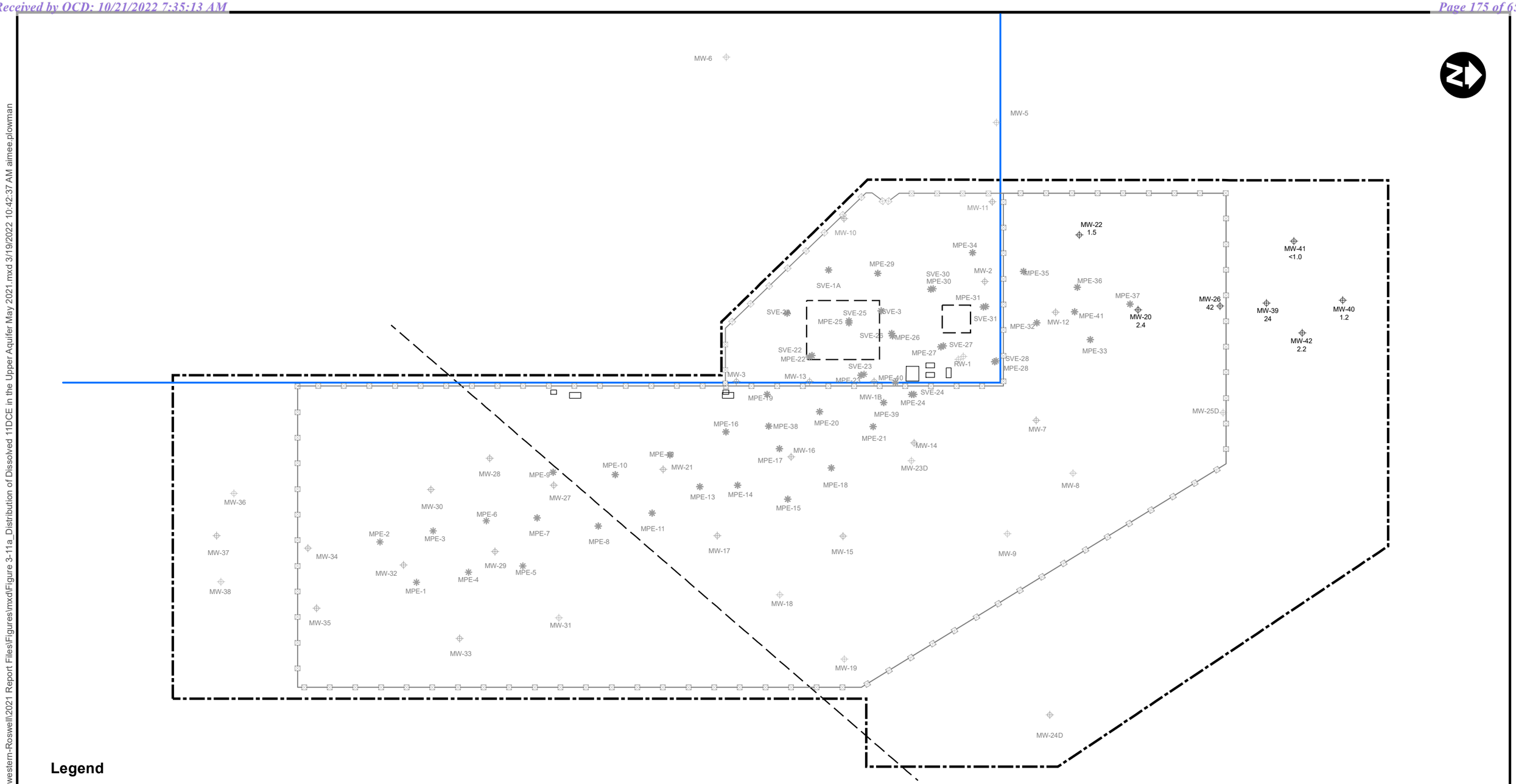
(770)-973-2100

Distribution of Dissolved 1,1-DCE in the Perched Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-10b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-10b_Distribution of Dissolved 11DCE in the Perched Aquifer Nov 2021.mxd 3/19/2022 10:46:22 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extentgreater than 0.01 ft in Upper Aquifer (May 2021)
- Fence Line
- 5.3 1,1-DCE Concentration in ug/L
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
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(770)-973-2100

Distribution of Dissolved 1,1-DCE in the Upper Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-11a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-11a_Distribution of Dissolved 11DCE in the Upper Aquifer May 2021.mxd 3/19/2022 10:42:37 AM aimee.plowman

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-11b_Distribution of Dissolved 11DCE in the Upper Aquifer Nov 2021.mxd 3/19/2022 10:40:39 AM aimee.plowman

MW-6
MW-5
MW-11
MW-10
MW-22
2.0
MW-41
1.2
MPE-34
MPE-29
MW-2
MPE-35
MPE-36
SVE-30
MPE-30
SVE-1A
MPE-31
MW-26
35
MW-39
19
MW-40
<1.0
MPE-37
MW-20
2.2
SVE-2
SVE-25
SVE-3
MPE-25
SVE-31
MPE-32
MW-12
MPE-41
SVE-26
MPE-26
MW-42
2.2
SVE-27
MPE-33
SVE-22
MPE-27
MPE-22
RW-1
SVE-28
MPE-28
SVE-23
MW-3
MW-13
MPE-40
SVE-24
MPE-19
MW-1B
MPE-24
MPE-39
MW-25D
MPE-16
MPE-38
MPE-20
MW-7
MPE-21
MW-14
MPE-12
MW-16
MPE-17
MW-23D
MPE-10
MW-28
MPE-9
MW-21
MPE-18
MW-8
MPE-13
MPE-14
MPE-15
MW-36
MW-27
MW-30
MPE-6
MPE-2
MPE-3
MPE-7
MPE-11
MPE-8
MW-17
MW-15
MW-37
MW-9
MW-34
MW-32
MW-29
MPE-5
MPE-4
MW-38
MPE-1
MW-18
MW-35
MW-31
MW-33
MW-19
MW-24D

Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Upper Aquifer (Nov 2021)
- Fence Line
- 5.3 1,1-DCE Concentration in ug/L
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

REPORT OF 2021 GROUNDWATER REMEDIATION ACTIVITIES
TRANSWESTERN PIPELINE COMPANY, LLC
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ROSWELL. CHAVES COUNTY, NEW MEXICO

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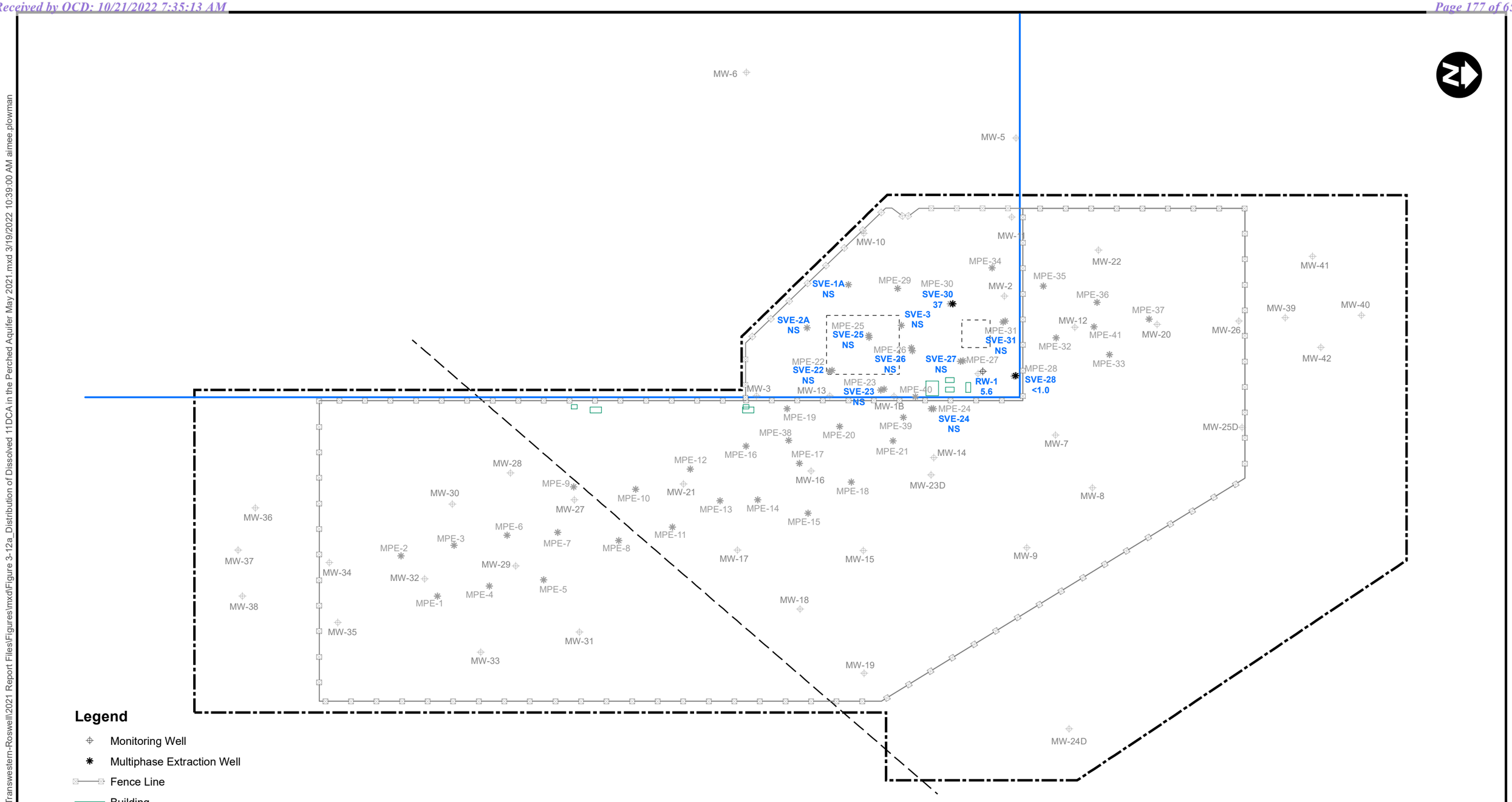
(770)-973-2100

Distribution of Dissolved 1,1-DCE in the Upper Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-11b



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- **<1.0** 1,1-DCE Concentration in ug/L
- **NS** Not sampled in accordance with SAP.

0 75 150 300 Feet

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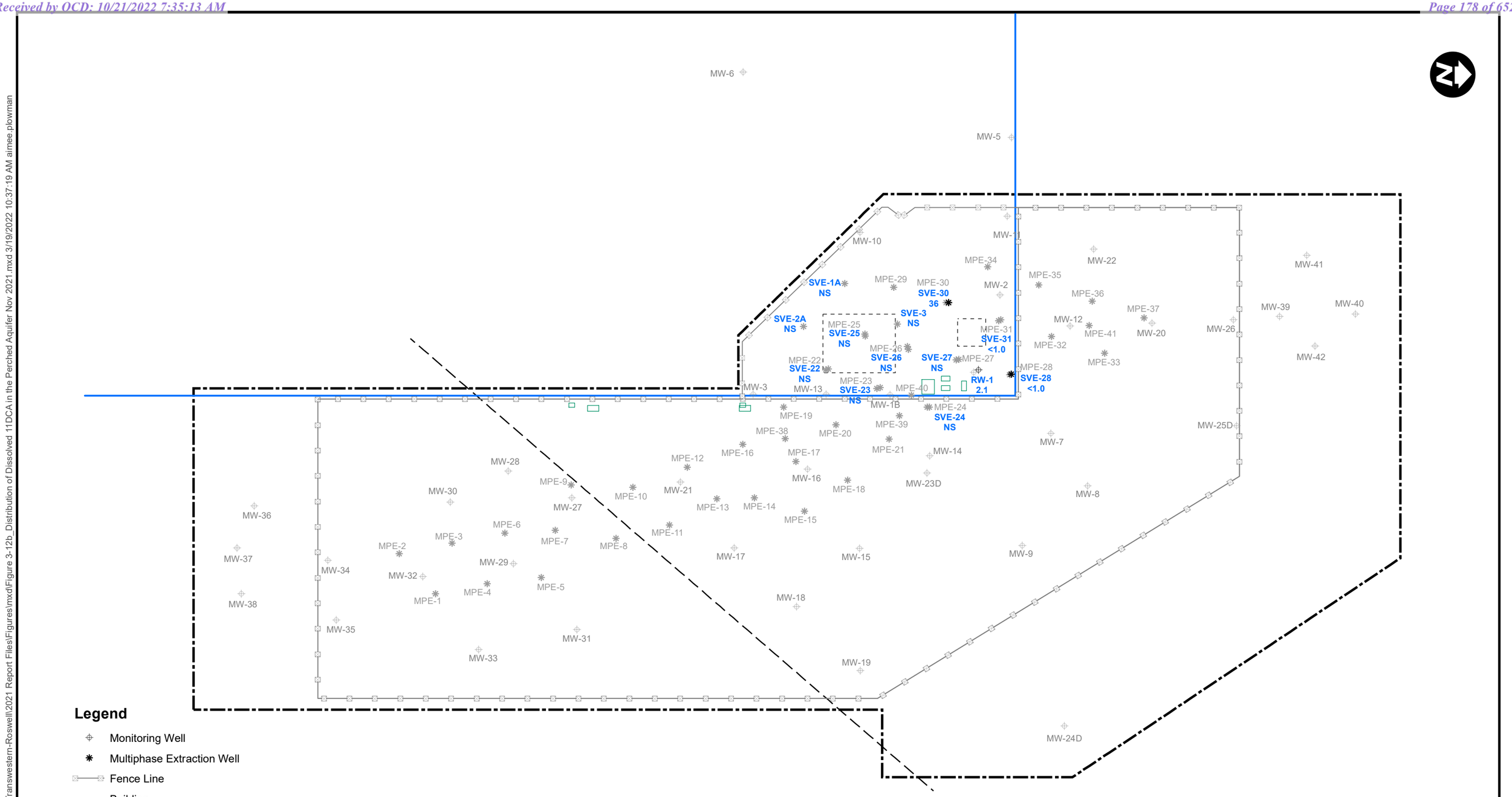
Distribution of Dissolved 1,1-DCA in the Perched Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-12a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-12a_Distribution of Dissolved 11DCA in the Perched Aquifer May 2021.mxd 3/19/2022 10:39:00 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Fence Line
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary
- **<1.0** 1,1-DCE Concentration in ug/L
- **NS** Not sampled in accordance with SAP.

0 75 150 300 Feet

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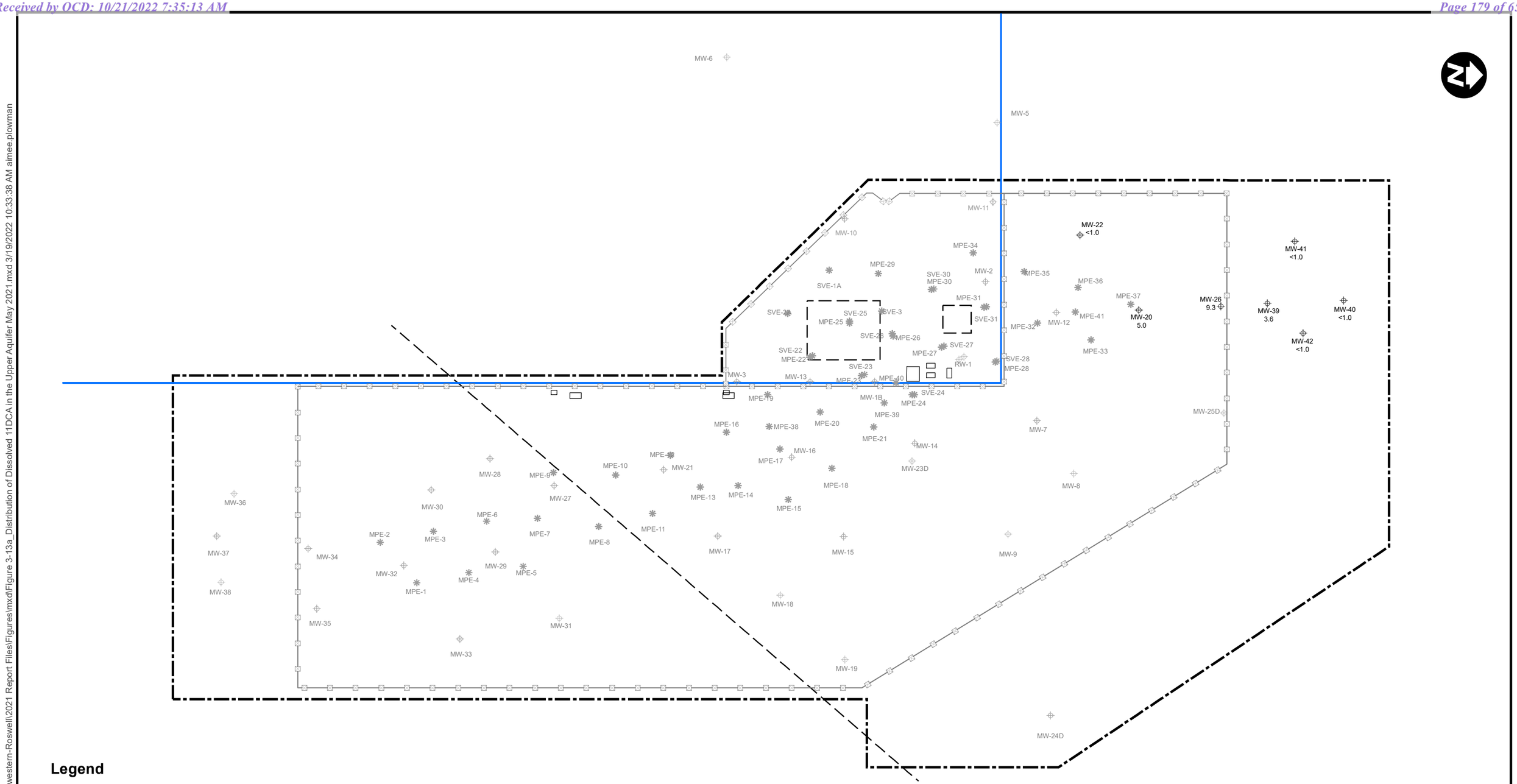
Distribution of Dissolved 1,1-DCA in the Perched Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-12b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-12b_Distribution of Dissolved 11DCA in the Perched Aquifer Nov 2021.mxd 3/19/2022 10:37:19 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extentgreater than 0.01 ft in Upper Aquifer (May 2021)
- Fence Line
- 5.3 1,1-DCE Concentration in ug/L
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

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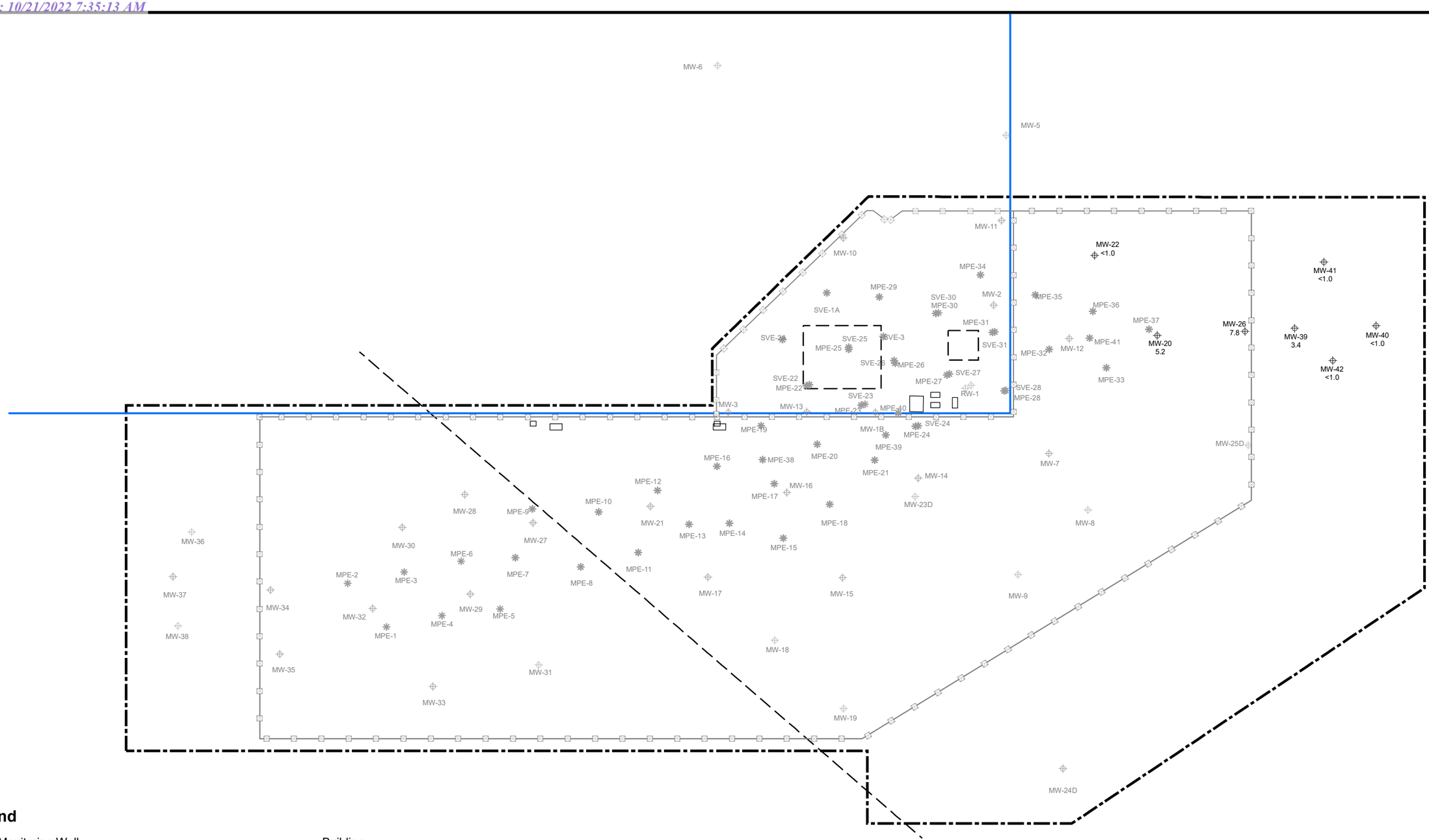
Distribution of Dissolved 1,1-DCA in the Upper Aquifer May 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-13a

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-13a_Distribution of Dissolved 11DCA in the Upper Aquifer May 2021.mxd 3/19/2022 10:33:38 AM aimee.plowman



Legend

- Monitoring Well
- Multiphase Extraction Well
- Approximate PSH Extent greater than 0.01 ft in Upper Aquifer (Nov 2021)
- Fence Line
- 5.3 1,1-DCE Concentration in ug/L
- Building
- Facility Boundary
- Station Pipeline
- Site Boundary

0 75 150 300 Feet

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Distribution of Dissolved 1,1-DCA in the Upper Aquifer November 2021

DRAWN	CHECKED	DATE	FIGURE
SWS	AP	MAR 2022	3-13b

File: S:\Premier\Projects\Energy Transfer\Transwestern-Roswell\2021 Report Files\Figures\mxd\Figure 3-13b_Distribution of Dissolved 11DCA in the Upper Aquifer Nov 2021.mxd 3/19/2022 10:31:41 AM aimee.plowman

APPENDICES

Appendix A

Copies of May 2021 and November 2021 Field Notes

Received by OCD: 10/21/2022 7:35:13 AM

Sophie Weber -Snapp
Senior Project Engineer
EarthCon Consultants, Inc.

SVE Wells
GW and PsH Levels
GW Monitoring May 2021
TWP Roswell Station # 9

Clayton M. Barnhill, PG
CMB Environmental Geological Services, Inc.

Well #:	Depth to PsH	Depth to Water	Total Depth	PsH Thickness	3 Casing Volumes	Remarks:
SVE-1A	N/A	N/A	29.60'		Dry Well	2" SVE Well
SVE-2A	N/A	N/A	29.80'		Dry Well	2" SVE Well
SVE-3	N/A	N/A	61.76'		Dry Well	2" SVE Well
SVE-22	N/A	N/A	33.15'		Dry Well	2" SVE Well
SVE-23	33.10'	33.75	34.87	0.65	Napl in well	2" SVE Well
SVE-24	N/A	N/A	28.58'		Dry Well	2" SVE Well
SVE-25	N/A	N/A	32.78'		Dry Well	2" SVE Well
SVE-26	N/A	N/A	32.66'		Dry Well	2" SVE Well
SVE-27	N/A	N/A	34.10'		Dry Well	2" SVE Well
SVE-28	N/A	31.37'	34.80'		1.646 gallons	2" SVE Well
SVE-30	N/A	43.22'	44.0'		0.374 gallons	2" SVE Well
SVE-31	N/A	N/A	33.25'		Dry Well	2" SVE Well
MPE-7	N/A	69.67				4" MPE Well
MPE-8	N/A	67.80'				4" MPE Well
MPE-9	N/A	68.98'				4" MPE Well
MPE-10	67.00'	67.89'	74.40'	0.89		4" MPE Well
MPE-11	N/A	65.32'				4" MPE Well
MPE-12	N/A	66.23'				4" MPE Well
MPE-13	N/A	66.25'				4" MPE Well
MPE-14	68.20'	68.50'	76.29	0.3		4" MPE Well w/ Pump
MPE-15	N/A	64.81'				4" MPE Well
MPE-16	68.37'	69.50'	76.48'	1.13		4" MPE Well w/ Pump
MPE-17	N/A	72.62'	74.0'			4" MPE Well w/ Pump
MPE-18	N/A	64.12'				4" MPE Well
MPE-19	N/A	65.00'				4" MPE Well
MPE-20	68.17'	68.20'	75.70'	0.03		4" MPE Well w/ Pump
MPE-21	N/A	63.03'				4" MPE Well
MPE-22	N/A	68.61'				4" MPE Well
MPE-23	N/A	72.16'	78.75'			4" MPE Well w/ Pump
MPE-24	N/A	60.57				4" MPE Well w/ Pump
MPE-25	N/A	68.73'				4" MPE Well
MPE-26	N/A	66.20'				4" MPE Well
MPE-27	67.47	67.50'	78.80'	0.03		4" MPE Well w/ Pump
MPE-28	N/A	57.99'				4" MPE Well
MPE-29	N/A	69.03'				4" MPE Well
MPE-30	N/A	67.32'				4" MPE Well
MPE-31	65.17'	65.18'		0.01		4" MPE Well w/ Pump
MPE-32	60.60'	60.71'		0.11		4" MPE Well w/ Pump
MPE-33	N/A	55.22'				4" MPE Well
MPE-34	N/A	66.58'				4" MPE Well
MPE-35	N/A	62.67'	78.30'			4" MPE Well w/ Pump
MPE-36	N/A	56.73'				4" MPE Well
MPE-37	N/A	53.75'				4" MPE Well
MPE-38	69.55'	69.57'	74.53'	0.02		4" MPE Well w/ Pump
MPE-39	N/A	72.16'	74.0'			4" MPE Well w/ Pump
MPE-40	65.45'	65.52'	73'	0.07		4" MPE Well w/ Pump
MPE-41	58.08'	58.36'		0.28		4" MPE Well w/ Pump
MW-1B	62.7	62.92'	64.89	0.22		2" MW
MW-2	N/A	61.35'				2" MW
MW-3	N/A	67.94'				2" MW
MW-7	N/A	66.61'				2" MW
MW-10	N/A	70.30'	72.46'			2" MW
MW-11	N/A	65.97'	68.75'			2" MW
MW-12	N/A	57.29'				2" MW
MW-13	N/A	65.65'				2" MW
MW-14	N/A	56.66'				2" MW
MW-15	N/A	61.57'				2" MW
MW-16	67.85'	69.50'	72'	1.65		2" MW
MW-17	N/A	72.62'	74'			2" MW
MW-20	N/A	53.91'	64.0'			2" MW W/ Pump
MW-21	N/A	66.58'	75'			2" MW W/ Pump
MW-22	N/A	58.74'	64.90'			2" MW
MW-26	N/A	51.41'	65.0'			2" MW W/ Pump
MW-27	N/A	68.81'	75.0'			2" MW
MW-28	N/A	71.10'				2" MW
MW-29	N/A	70.89'	74.45'			2" MW
MW-30	N/A	67.99'				2" MW
MW-32	N/A	68.58'				2" MW
MW-33	N/A	66.32'				2" MW
MW-34	N/A	65.34'	75.75'			2" MW W/ Pump
MW-35	N/A	62.67'				2" MW W/ Pump
MW-37	N/A	60.42'				2" MW W/ Pump
MW-39	N/A	50.39'	70.11'			2" MW W/ Pump
MW-40	N/A	54.72'	70.13'			2" MW W/ Pump
MW-41	N/A	57.57'	70.06'			2" MW W/ Pump
MW-42	N/A	56.50'	75.95'			2" MW W/ Pump
MW-24D	N/A	65.78'				4" MW
RW-1	N/A	36.85'	41.47'			4" MW

Solinist Interface Probe: Model No. 122 Serial No. 222719

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Location Twp Roswell Station 9 Date 05/07/2021

Project / Client GW Monitoring 2021

EarthCon Consultants Inc. By:

CMB Environmental & Geological Services, Inc. Page 3 of 6

Well	DNAP	DTW	TD	3CV	Remarks
MW-22	Ø	58.76	64.90	—	—
~~MPE-36~~	~~Ø~~	~~56.46~~			
MPE-33	Ø	55.25	—	—	—
MPE-37	Ø	53.69	—	—	—
*MW-20	Ø	55.77	64	4.84	2" MW w/pump
MW-24	Ø	51.36	65	6.523	2" MW w/pump
~~MW-11~~	Ø	6597	68.75	1.33	2" MW No pump
~~MW-46~~					
MW-10	Ø	70.30	72.46	1.03	2" MW No pump
MPE-29	Ø	69.03	—	—	4" MPE well
MPE-25	Ø	68.73'	—	—	4" MPE well
SVE-25	Ø	Ø	32.78	—	2" SVE well
MPE-26	Ø	66.20'	—	—	4" MPE well
SVE-26	Ø	Ø	32.66	—	2" SVE well
SVE-3	Ø	Ø	61.76'	—	2" SVE well
SVE-1A	Ø	Ø	29.60'	—	2" SVE well
SVE-2A	Ø	Ø	29.80	—	2" SVE well
SVE-22	Ø	Ø	33.15	—	2" SVE well
MPE-22	Ø	68.61'	—	—	4" MPE well
MW-3	Ø	67.94	—	—	2" MW
MW-13	Ø	65.65'	—	—	2" MW w/pump

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Location Twp Roswell Station 9 Date 05/07/2021

Project / Client GW Monitoring 2021

EarthCon Consultants Inc. By:

CMB Environmental & Geological Services, Inc. Page 4 of 6

Well	DNAP	DTW	T.D.	3CV	Remarks
MPE-30	Ø	67.32	—	—	4" MPE well
SVE-30	Ø	43.22	44.0	—	2" SVE well
MPE-34	Ø	66.58'	—	—	4" MPE well
MW-2	Ø	61.35'	—	—	2" MW
~~MPE-31~~	~~Ø~~				4" MPE well w/pump
SVE-31	Ø	Ø	33.16'	—	2" SVE well
MPE-31	65.17'	65.18	—	—	4" MPE well

65.18' - 65.17' = 0.01 NAPL Thickness

*NAPL IN Well No Sample *

*SVE-31 Dry — No Sample *

MPE-28	Ø	57.99'	—	—	4" MPE Well
SVE-28	Ø	31.37	34.80		2" SVE well
*RW-1	Ø	36.85'	41.47'	9 Gallons	4" Recovery well
MW-12		57.30			2" MW
MPE-40	58.08'	58.36	*0.28' NAPL thickness		4" MPE Well w/pump
MPE-32	60.60	60.71	—		4" MPE w/pump

* 0.11' NAPL thickness

~~MPE-38~~ 33	Ø	55.27'			4" MPE well
MPE-36	Ø	56.73'	—	—	4" MPE well
MPE-35	Ø	62.67	—	—	4" MPE well w/pump

Rite in the Rain

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Location Twp Roswell Station 9 Date 05/07/2021

Project / Client GW Monitoring 2021

EarthCon Consultants Inc By: CMB Environmental & Geological Services, Inc. Page 1 of 6

Arrive on site @ 10:00

Sunny 84°F SSE 15 mph Wind 27% Humidity 29.9" Hg.

Well #	DNAPL	DTW	T.D.	Remarks	
MW-37	∅	60.42	—	3 CV	—
MW-34	∅	65.34	~~67.75~~ 67.15	3 CV = 5.0 gal	Clear H2O
MW-35	∅	62.67	—	—	—
MW-32	∅	68.58	—	—	—
MW-33	∅	66.32	—	—	—
MW-30	∅	67.99	—	—	—
MW-28	∅	71.10	—	—	—
MPE-9	∅	68.98	—	—	—
MPE-7	∅	69.67	—	—	—
MW-29	∅	70.89	74.45	1.7088	
MW-27	∅	68.81	75.0	3.0	2" MW
MPE-10	67.00	67.89	74.40	—	4" MPE well
MPE-11	∅	65.32	—	—	—
MPE-8	∅	67.80	—	—	—
MPE-12	~~∅~~ 66.04'	66.23	—	0.19' NAPL	4" MPE Well
MPE-13	∅	66.26	—		4" MPE well
*MW-21	∅	66.59	75.0	4.016	2" Well w/ pump

Location Twp Roswell Station 9 Date 05/07/2021

Project / Client GW Monitoring 2021

EarthCon Consultants Inc. By: CMB Environmental & Geological Services Inc.

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Well #	DNAPL	DTW	TD	Remarks
MPE ~~11~~	68.20	68.50	76.29	4" MPE W/ Pump
*MW-17	∅ ~~68.57~~	63.32	3.20	2" MW
~~MPE 16~~	~~67.85~~	69.~~50~~	~~72.~~	1.15 ~~1.85~~' NAPL
MPE 19	∅	65.00	—	— —
MPE 38	69.55	69.57	74.53	0.02' NAPL
MPE 17	∅	72.62	74.0	4" MPE W/ pump
*MW-16	67.85	69.50	72	1.55' NAPL
MPE 15	∅	64.81	—	—
MPE 18	∅	64.12	—	—
MPE 20	68.17	68.20	75.70	0.03' NAPL
MPE-21	∅	63.03	—	—
MW-15	∅	61.57	—	—
MPE-39	∅	72.16	74.0	- 4" MPE well
MW-14	∅	56.66	—	—
MPE 24	∅	60.57	—	—
SVE-24	∅	∅	28.58	—
MW-5	∅	66.61	—	—
MPE-32	60.60	60.71	78.0	0.11' NAPL
MW-12	∅	57.29	—	—
MPE-35	∅	62.67	78.30	—
~~MPE-41~~				

Rite in the Rain

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Location TWP Roswell Station 9 Date 05/10/2021

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Calibrated Hanna Instruments Multiparameter Waterproof Meter S/N: 05400038101 Reagent Exp: 07/2025 @ 07:15 hr.
pH, Conductivity, Dissolved oxygen, Quick Calibration.
Arrive on site @ 0900 hr
Sunny 60°F Wind SSE @ 12mph. Humidity 64% Barometric Pressure ↑ 29.86" Hg
Started GW monitoring.
Left site @ 16:30 hr.

Well	Pump	DTW	~~TD~~	3CV	Remarks
MW-22	Ø	58.74	64.90	2.95	2" MW
MPE-37	Ø	53.75	—	—	4" MPE well
MW-20	Ø	53.91	64	4.84	2" MW w/pump
MW-26	Ø	51.41	65	6.52	2" MW w/pump
MW-24D	Ø	65.78	—	—	4" MW
MW-42	Ø	56.50	75.95	9.336	2" MW w/pump
MW-40	Ø	54.72	70.13	7.39	2" MW w/pump
MW-41	Ø	57.57	70.06	5.995	2" MW w/pump

Location TWP Roswell Station 9 Date 05/11/2021

Project / Client GW Monitoring 2021 For Earth Con Consultants, Inc. By: CMB Environmental & Geological Services, Inc.

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Arrived on-site @ 0900
Partly Cloudy 63°F ESE Wind @ 9mph 58% Humidity Barometric Pressure ↑ 30.07" Hg
Continued GW Sampling.

Well	Pump	DTW	T.D.	3CV	Remarks
MW-39	Ø	50.39	70.11	9.465	2" MW w/pump
MPE-23	Ø	72.16	78.75		4" MPE well
SVE-23		33.10	33.75	~~34.08~~ 34.87	2" SVE well
		*Left Site @ 16:30 hr.			
MPE-27		62.47	67.5	78.8	
SVE-27	Ø	Ø		34.10	
MPE-39	Ø	72.16	74.0		4" MPE well w/pump
MW-1B		62.7	62.92	64.89	2" MW

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Rite in the Rain

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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: 05/11/2021	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 70.30'	PURGE PUMP TYPE OR BAILER: 1.8" Disposable

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

= (72.46 feet – 70.30' = 2.16 feet) x 0.16 gallons/foot = 0.3456 gallons

3 WELL VOLUMES = 1.03 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: 0955	PURGING ENDED AT: 0958	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)
0955	Initial	0	0.25	70.30	7.13	19.71	3758	4.73	162.1	Turbid	None
0956	0.50	0.50	0.25	–	7.12	19.65	3749	5.34	161.5	"	"
0957	0.75	0.75	0.25	–	7.14	19.52	3746	5.23	161.1	"	"
0958	1.0	1.0	0.25	–	7.10	19.39	3751	4.89	163.0	"	"

INSTRUMENTS USED: Hanna Multi Probe Meter Solinst IP

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: 0958	SAMPLING ENDED AT: 10:00
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 (~~gpm~~ per minute)
MW-10	3	CG	40mL	HCL	120mL	7.10	BTEX 8260	B	0.25

REMARKS: TURBID Brown Fine Suspended Silt

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 88203
WELL NO: MW-11 | SAMPLE ID: MW-11 | DATE: 05/11/2021

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): 65.97 | PURGE PUMP TYPE OR BAILER: 1.8" Disposable

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

= (68.75 feet – 65.97' = 2.78' feet) X 0.16 gallons/foot = 0.4448 gallons

3 WELL VOLUMES = 1.33 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: 0920 | PURGING ENDED AT: 0930 | TOTAL VOLUME PURGED (gallons): 1.5

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)
0920	Initial	0	0.25	65.97	7.28	19.82	3865	5.91	142.7	Turbid	None
0922	0.50	0.50	0.25	—	7.29	19.22	3861	6.65	144.8	"	"
0925	1.0	1.0	0.25	—	7.23	19.22	3859	6.27	149.7	"	"
0930	1.5	1.5	0.25	—	7.19	19.25	3863	6.19	153.2	"	"

INSTRUMENTS USED: Hanna Meter Solinst I.P. Probe

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 McBurnhill / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 0930 | SAMPLING ENDED AT: 0935

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-11	3	CG	40mL	HCl	120	7.19	BTEX 8260	B	0.25
Duplicate MW-11	3	CG	40mL	HCl	120	7.19	BTEX 8260	B	0.25

REMARKS: Turbid Brown Silt – No odor

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 Street Roswell, NM 88201

WELL NO: MW-17 | SAMPLE ID: MW-17 | DATE: 05/10/2021

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL DEPTH: 53 feet to 68 feet | STATIC DEPTH TO WATER (feet): 63.32 | PURGE PUMP TYPE OR BAILER: 1.5" Disposable Bailer

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

= (70 feet – 63.32 = 6.68 feet) x 0.16 gallons/foot = 1.0688 gallons

3 WELL VOLUMES = 3.2064 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: 16:05 | PURGING ENDED AT: 16:15 | TOTAL VOLUME PURGED (gallons): 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)
16:05	Turbid	0	0.25	63.32	7.18	20.56	4108	3.70	-65.8	Clear	None
16:08	1	1	0.25		7.22	19.53	4115	4.66	-45.6	Turbid	None
16:11	2	2	0.25		7.25	19.34	4105	5.40	-22.3	Turbid	None
16:15	3.25	3.25	0.25		7.26	19.36	4098	5.58	-8.0	Turbid	None

INSTRUMENTS USED: Hanna Multi Parameter Meter Solinst I.P.

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: 16:15 | SAMPLING ENDED AT: 16:17

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-17	3	CG	40mL	HCl	120 mL	7.26	BTEX 8260	B	0.25

REMARKS: TURBID Brown Suspended Silt

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: 05/11/2021

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): 53.91 | PURGE PUMP TYPE OR BAILER: BP

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

= (64 feet – 53.91 = 10.09 feet) X 0.16 gallons/foot = 1.614 gallons

3 WELL VOLUMES = 4.84 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): 56.45 | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 56.45 | PURGING INITIATED AT: 10:23 | PURGING ENDED AT: 10:45 | TOTAL VOLUME PURGED (gallons): 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)
10:23	Initial	0	0.25	53.91	7.30	18.76	3824	7.27	57.0	Turbid	None
10:27	1	1	0.25		7.31	18.74	3830	7.28	60.8	Turbid	None
10:31	2	2	0.25		7.29	18.74	3826	7.21	64.9	Clear	None
10:35	3	3	0.25		7.28	18.77	3824	7.68	69.1	Clear	None
10:40	4	4	0.25		7.28	18.78	3821	7.49	69.9	Clear	None
10:45	5	5	0.25		7.28	18.77	3822	7.70	70.4	Clear	None

INSTRUMENTS USED: Horiba Multiparameter Meter Solinst I.P.

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. Barahill / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 10:45 | SAMPLING ENDED AT: 10:47

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 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	120mL	7.28	VOC's 8260	BP	0.25
MW-20	1	AG	1 Liter	None	1 Liter	7.28	1,4 Dioxane 8270C SIM	BP	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-21 | SAMPLE ID: MW-21 | DATE: 05/11/2021

PURGING DATA

WELL DIAMETER (inches): | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 66.58 | PURGE PUMP TYPE OR BAILER: BP

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

= (75.0 feet – 66.58 = 8.42 feet) x 0.16 gallons/foot = 1.347 gallons

3 WELL VOLUMES = 4.016 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): | PURGING INITIATED AT: 15:35 | PURGING ENDED AT: 15:55 | 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)
15:35	Initial	0	0.20	66.58	7.73	20.03	3148	7.62	-34.9	Clear	None
15:40	1	1	0.20		6.97	20.11	3157	3.05	-162.8	Clear	None
15:45	2	2	0.20		7.03	20.22	3149	4.69	-106.7	Clear	None
15:50	3	3	0.20		7.03	20.29	3158	4.56	-105.5	Clear	None
15:55	4	4	0.20		7.03	20.28	3164	4.54	-103.4	Clear	None

INSTRUMENTS USED: Hanna Multiparameter Meter Solinst I-P

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 Bonds / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 15:55 | SAMPLING ENDED AT: 15:58

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	120mL	7.03	8260B TEX	BP	0.20

REMARKS: Clear H2O

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

WELL NO: MW-22 | SAMPLE ID: MW-22 | DATE: 05/11/2021

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 58.74 | PURGE PUMP TYPE OR BAILER: Poly Disposable

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

= (64.90 feet – 58.74 = 6.16 feet) X 0.16 gallons/foot = 0.9856 gallons

3 WELL VOLUMES = 2.9568 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: 0955 | PURGING ENDED AT: 10:02 | 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)
0955	Initial	0	0.25	58.74	7.22	19.39	3762	6.52	4.5	TURBID	None
0957	1	1	0.25		7.26	19.02	3801	6.69	12.4	Turbid	None
10:00	2	2	0.25		7.30	18.90	3777	6.68	17.6	Turbid	None
10:02	3	3	0.25		7.32	18.80	3771	7.09	21.7	Turbid	None

INSTRUMENTS USED: Hanna Multiparameter Meter Solinst I.P.

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 McBurchill / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 10:02 | SAMPLING ENDED AT: 10:07

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	HCl	7.32	VOC's 8260	B	0.25
Duplicate MW-22	3	CG	40mL	HCl	HCl	7.32	VOC's 8260	B	0.25
	2	AG	1 Liter	None	1 Liter	7.32	1,4 Dioxane 8270c SIM	B	0.25

REMARKS: Also Analyze for 1,4 Dioxane.

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-26	SAMPLE ID: MW-26	DATE: 05/4/2021	

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): 51.41	PURGE PUMP TYPE OR BAILER: BP

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

= (65 feet − 51.41 = 13.59 feet) X 0.16 gallons/foot = 2.17 gallons

3 WELL VOLUMES = 6.523 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):
56.63	56.63	10:52	11:07	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)
10:52	Initial	0	0.20	51.41	7.01	18.65	3837	6.74	85.0	Clear	None
10:57	2	2	0.20		7.01	18.63	3853	7.91	88.0	Clear	None
11:02	4	4	0.20		6.96	18.68	3812	6.47	93.3	Clear	None
11:07	6	6	0.20		6.96	18.67	3816	6.32	93.4	Clear	None

INSTRUMENTS USED: Hanna Multiparameter Probe Solinst L.P.

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 McBurnie/CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:07	SAMPLING ENDED AT: 11:10
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	6.96	VOC's 8260	BP	0.20
MW-26	1	AG	1 Liter	None	1 Liter	6.96	1,4 Dioxane	BP	0.20
							8270C SIM		

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-27 | SAMPLE ID: MW-27 | DATE: 05/11/2022

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): N/A | WELL SCREEN INTERVAL DEPTH: 55 feet to 75 feet | STATIC DEPTH TO WATER (feet): 68.81' | PURGE PUMP TYPE OR BAILER: 1.8" Disposable Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (75.0 feet – 68.81 = 6.19 feet) x 0.16 gallons/foot = 0.9904 gallons
3 WELL VOLUMES = 2.9712 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: 15:05 | PURGING ENDED AT: 15:12 | 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)
15:05	Initial	0	0.25	68.81	6.88	20.52	3894	2.18	-230.0	Clear	Strong HC Odor
15:07	1	1	0.25		6.89	20.19	3883	2.40	-252.6	TURBID	Strong Odor
15:10	2	2	0.25		6.92	19.98	3881	2.46	-271.3	TURBID	" "
15:12	3	3	0.25		6.96	20.04	3867	2.70	-276.0	TURBID	" "

INSTRUMENTS USED: Horiba Multiparameter Meter Solinst

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 Bourhill / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 15:15 | SAMPLING ENDED AT: 15:17
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)
MW27	3	CG	40mL	HCL	120 mL	6.96	BTEX 8260	B	0.25

REMARKS: Strong Hydrocarbon odor. TURBID Fine Suspended Silt.

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: 05/11/2021

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): 70.89	PURGE PUMP TYPE OR BAILER: BP-B

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

= (74.45 feet – 70.89 = 3.56 feet) x 0.16 gallons/foot = 0.5696 gallons

3 WELL VOLUMES = 1.7088 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):
68.87	68.87	14:38	14:45	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)
14:38	Initial	0	0.25	70.89	7.10	21.92	3627	2.87	-67.2	Clear	None
14:40	0.50	0.50	0.25		7.10	20.33	3590	2.80	-80.5	Clear	None
14:42	1.0	1.0	0.25		7.11	19.64	3581	2.99	-98.5	TURBID	None
14:44	1.5	1.5	0.25		7.13	19.59	3603	2.80	-107.2	TURBID	None
14:45	1.75	1.75	0.25		7.13	19.63	3596	2.65	-112.7	TURBID	None

INSTRUMENTS USED: Hanna Multi Parameter Meter Solinst I.P.

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 Barnhill / CMB		14:45	14:47

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
68.87	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)
MW29	3	CG	40mL	HCl	120mL	7.13	BTEX 8260	BP	225

REMARKS: Pulled pump & used 30'x 1.8" Disposable Bailer. Turbid Fine Brown Suspended Silt

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-34	SAMPLE ID: MW-34		DATE: 05/4/2021

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): 65.34	PURGE PUMP TYPE OR BAILER: BP

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

= (75.75 feet − 65.34 = 10.41 feet) X 0.16 gallons/foot = 1.66 gallons

3 WELL VOLUMES = 4.99 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: 13:43	PURGING ENDED AT: 14:13	TOTAL VOLUME PURGED (gallons): 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)
13:43	Initial	0	65.34	65.34	7.29	20.38	3600	3.29	87.4	Clear	None
13:49	1	1	0.16		7.14	20.00	3570	2.32	26.3	Clear	None
13:55	2	2	0.16		7.13	20.07	3566	2.14	12.2	Clear	None
14:01	3	3	0.16		7.13	20.05	3566	2.12	5.8	Clear	None
14:07	4	4	0.16		7.13	20.29	3541	2.10	5.3	Clear	None
14:13	5	5	0.16		7.13	20.28	3533	2.12	5.2	Clear	None

INSTRUMENTS USED: HANNA Multi Parameter Meter Solinst In P.

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: 14:15	SAMPLING ENDED AT: 14:17
Clayton M Barnhill/CMB			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
67.0			

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	7.13	BTEX 8260	BP	0.16

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 88203		
WELL NO: MW-42	SAMPLE ID: MW-42	DATE: 06/11/2021	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 56.50	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 - 56.50 = 19.45 feet) X 0.16 gallons/foot = 3.112 gallons

3 WELL VOLUMES = 9.336 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	11:27	11:47	9.5

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)
11:27	Initial	9	0.375	56.50	7.12	18.71	3823	6.23	87.2	Clear	None
11:35	3	3	0.375		7.05	18.67	3832	5.26	91.4	Clear	None
11:41	6	6	0.375		7.04	18.70	3810	4.95	92.1	Clear	None
11:47	9.5	9.5	0.375		7.04	18.74	3814	4.82	92.6	Clear	None

INSTRUMENTS USED: Hanna Multi Parameter Meter Solonist T. P.

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 McCornhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:47	SAMPLING ENDED AT: 11:58
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 (mL per minute)
MW42	3	CG	40mL	HCl	120mL	7.04	8260 VOCs	BP	0.375
MW42	1	AG	1 Liter	None	1 Liter	7.04	1,4 Dioxane	BP	0.375
							8270C SIM		

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-40	SAMPLE ID:	MW-40
DATE:	05/11/2021		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2"	1/2	55 feet to 75 feet	54.72'	BP

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

= (70.13 feet – 54.72' = 15.41 feet) X 0.16 gallons/foot = 2.465 gallons

3 WELL VOLUMES = 7.39 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):
62.31	62.31	1430	1451	7.5

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)
1430	Initial	0	0.285	54.72	7.05	19.19	3811	5.39	58.1	Clear	None
1437	2	2	0.285		7.07	18.99	3812	5.23	59.0	Turbid	None
1441	4	4	0.285		7.05	18.98	3804	5.38	64.8	Turbid	None
1447	6	6	0.285		7.02	18.94	3800	5.06	70.6	Turbid	None
1451	7.5	7.5	0.285		7.02	18.98	3799	5.14	71.1	Turbid	None

INSTRUMENTS USED: Hanna Multi Parameter Probe Meter Solinst I.P.

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		1451	1453

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)
MW40	3	CG	40mL	HCl	120 mL	7.02	8260 VOC'S	BP	0.285
MW40	1	AG	1 Liter	None	1 Liter	7.02	8270C 1-4 Dioxane SIM	BP	0.285

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-41	SAMPLE ID:	MW-41
DATE:	05/11/2021		

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):	57.57	PURGE PUMP TYPE OR BAILER:	ESP

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

= (70.06' feet - 57.57 = 12.49 feet) x 0.16 gallons/foot = 1.998 gallons

3 WELL VOLUMES = 5.995 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:	1500	PURGING ENDED AT:	15:18	TOTAL VOLUME PURGED (gallons):	6

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	0.30	57.57	7.10	19.66	3718	7.52	77.6	Clear	None
15:06	2	2	0.30	/	7.08	19.41	3718	7.46	81.5	Clear	None
15:12	4	4	0.30	/	7.08	19.47	3714	7.47	84.6	Clear	None
15:18	6	6	0.30	/	7.09	19.42	3717	7.11	85.2	Clear	None

INSTRUMENTS USED: Horna Multi parameter Meter Solinst T.P.

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 McBurnett / Cmb	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	15:18	SAMPLING ENDED AT:	15:24
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	120mL	2.09	8260 VOCs	BP	0.30
MW-41	1	AG	1 Liter	None	1 Liter	7.09	8270C SIM 1,4 Dioxane	BP	0.30

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-39 | SAMPLE ID: MW-39 | DATE: 05/11/2021

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): 50.39 | 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 – 50.39 = 19.72 feet) X 0.16 gallons/foot = 3.155 gallons
3 WELL VOLUMES = 9.465 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: 1525 | PURGING ENDED AT: 1540 | TOTAL VOLUME PURGED (gallons): 9.5

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)
1525	Initial	0	0.60	50.39	7.06	18.92	3789	7.29	93.3	Clear	None
1530	3	3	0.60		7.05	18.91	3792	6.69	95.1	Clear	None
1535	6	6	0.60		7.06	18.94	3789	7.27	95.3	Clear	None
1540	9.5	9.5	0.60		7.06	18.98	3789	6.97	95.6	Clear	None

INSTRUMENTS USED: Horiba Multi Parameter Meter Solinst I.P.

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 / Cenex | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 1540 | SAMPLING ENDED AT: 1545
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	120 mL	7.06	8260 VOCs	BP	0.60
MW-39	1	AG	1 Liter	None	1 Liter	7.06	8270 SIM	BP	0.60
							1-4 Dioxane		
Duplicate MW-39	3	CG	40mL	HCL	120 mL	7.06	8260 VOCs	BP	0.60
Duplicate MW-39	1	AG	1 Liter	None	1 Liter	7.06	1-4 Dioxane	BP	0.60
							8270 SIM		

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: 05/11/2021	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 31.37	PURGE PUMP TYPE OR BAILER: 1.8" Disposable

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

= (34.80 feet – 31.37 = 3.43 feet) X 0.16 gallons/foot = 0.5488 gallons

3 WELL VOLUMES = 1.646 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)
				NO PARAMETERS TAKEN							
				Spray hydrocarbon odor							

INSTRUMENTS USED: Solinist T.P.

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: 11:15	SAMPLING ENDED AT: 11:20
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	VOC's 8260	B	0.25
	1	AG	1 Liter	None	1 Liter		1,4 Dioxane 8270C SIM	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-30	SAMPLE ID:	SVE-30
		DATE:	05/11/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2"		00 feet to 45 feet		1.5" Poly Disposable Bailer

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

= (44.0 feet – 43.22 = 0.78 feet) X 0.16 gallons/foot = ~~0.096~~ 0.1248 gallons

3 WELL VOLUMES = ~~0.288~~ 0.3744 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)
					No Parameters Taken.						
					Strong HC Odor						

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 McCardell/CMS		10:45	10:50

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

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	~~40 mL~~	HCl	120 mL		VOC's 8260	B	0.25
SVE-30	1	AG	1 Liter	None	1 Liter	N/A	1,4 Dioxane 8270C SIM	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 Street Roswell NM 88201		
WELL NO: RW-1	SAMPLE ID: RW-1	DATE: 03/4/2021	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 36.85	PURGE PUMP TYPE OR BAILER: 3.5" poly Disposable

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

= (41.47' feet – 36.85 = 4.62 feet) X 0.65 gallons/foot = 3.00 gallons

3 WELL VOLUMES = 9.00 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)
							No Parameters Taken				
							Strong HC Odor				

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 M Barnhill/CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:10	SAMPLING ENDED AT: 13:15
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		VOC's 8260	B	1.0
RW-1	1	AG	1 Liter	None	1 L. HCl		1,4 Dioxane	B	1.0
							8270c SIM		

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 8:38:59 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc.
ATTN: Sofie Weber Snapp
Mailing Address: 880 West Oak Parkway, Suite 106 Marrietta, GA 30062
Phone #: 770. 973 .2100
email or Fax#: Sweber snapp@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 9
Project #: 02. 2012. 00 3760 GW Monitoring 2021
Project Manager: Sofie Weber Snapp
Sampler: CM Barnhill, PG
On Ice: ☑ Yes ☐ No
# of Coolers: 2
Cooler Temp(including CF): (°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.	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	1-4 Dioxane 8270 c SIM
05/11/21	0935	H2O	MW-11	3x40mL VOA's	HCl												X	
05/11/21	0935	H2O	MW-11 Duplicate	3x40mL VOA's	HCl												X	
05/11/21	10:00	H2O	MW-10	3x40mL VOA's	HCl												X	
05/11/21	14:17	H2O	MW-34	3x40mL VOA's	HCl												X	
05/11/21	14:47	H2O	MW-29	3x40mL VOA's	HCl												X	
05/11/21	15:17	H2O	MW-27	3x40mL VOA's	HCl												X	
05/11/21	1558	H2O	MW-21	3x40mL VOA's	HCl												X	
05/11/21	1617	H2O	MW-17	3x40mL VOA's	HCl												X	
05/11/21	10:07	H2O	MW-22	3x40mL 1x1Liter	HCl/None									X				X
05/11/21	10:07	H2O	MW-22 Duplicate	3x40mL 1x1Liter	HCl/None									X				X
05/11/21	10:47	H2O	MW-20	3x40mL 1x1Liter	HCl/None									X				X
05/11/21	11:10	H2O	MW-26	3x40mL 1x1Liter	HCl/None									X				X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
05/12/21	11:00					
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.

Received by OCD: 10/21/2022 7:55:13 AM

Released to Imaging: 11/22/2022 8:38:59 AM

Chain-of-Custody Record

Client: Earth Con Consultants, Inc.
ATTN: Sofie Weber Snapp
Mailing Address: 550 West Oak Parkway, Suite 106
Marrietta, GA 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@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 Rosnell Station 9
Project #: 02.2012.003700 GW Monitoring 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PT
On Ice: ☑ Yes ☐ No
# of Coolers: 2
Cooler Temp(including CF): (°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.	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)	8270 (c) SIM 1-4 Dioxane
05/11/21	11:50	H_2O	MW-42	3x40mL 1x1Liter	HCl/None									X			X
05/11/21	1453	H_2O	MW-40	3x40mL 1x1Liter	HCl/None									X			X
05/11/21	1521	H_2O	MW-41	3x40mL 1x1L HCl	HCl/None									X			X
05/11/21	1545	H_2O	MW-39	3x40mL 1x1Liter	HCl/None									X			X
05/11/21	1545	H_2O	MW-39 Duplicate	3x40mL 1x1Liter	HCl/None									X			X
05/11/21	11:20	H_2O	SVE-28	3x40mL 1x1Liter	HCl/None									X			X
05/11/21	1050	H_2O	SVE-30	3x40mL 1x1Liter	HCl/None									X			X
05/11/21	1315	H_2O	RW-1	3x40mL 1x1L HCl	HCl/None									X			X
			Trip Blank	2x40mL VOA's	HCl												

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
05/12/21	11:00					
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.

Received by OCD: 10/21/2022 7:55:13 AM

GROUNDWATER SAMPLING LOG

SITE NAME:	TWP Roswell Station 9	SITE LOCATION:	6381 North Main Street	Roswell NM 88201
WELL NO:	SVE-31	SAMPLE ID:	SVE-31	DATE: 05/07/2021

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"	N/A		Ø	

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

= (Ø feet – Ø feet) X 0.16 gallons/foot = Ø gallons

3 WELL VOLUMES = gallons

TD. 33.16' = DRY well

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: N/A	PURGING ENDED AT: N/A	TOTAL VOLUME PURGED (gallons): N/A

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)

NO SAMPLE DRY WELL SVE TD. 33.16'

INSTRUMENTS USED: Solinst I. P.

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: N/A	SAMPLING ENDED AT: N/A
CMB/Colby Fan M Barnhill			

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)

NO SAMPLE DRY WELL

REMARKS: No Detected NAPL or WATER. DRY Well @ 33.16' T.D

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 Street Roswell NM 88201
WELL NO:	MW-16	SAMPLE ID:	MW-16
DATE:	05/11/2021		

PURGING DATA

NAPL @ 67.85

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2"	N/A	46.4 feet to 71.4 feet	69.50	N/A

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

NAPL @ 67.85 = (72 feet – 69.50 feet) X gallons/foot = gallons

3 WELL VOLUMES = gallons * No Sample * NAPL IN Well.

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)

N/A * NAPL IN Well *

INSTRUMENTS USED: Solinist F.P.

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		N/A	N/A

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)

N/A

69.50-67.85=1.65

REMARKS: * NAPL IN WELL * 69.50 DTW – 67.85 DNAPL = 1.85' NAPL Thickness

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 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Location TWP Roswell Station 9 Date 11/10/2021

Project / Client GW Monitoring 2021 For

Earthcon Consultants, Inc. By:

CMB Environmental & Geological

Services, Inc. Page 1 OF 2

Arrive on-site 10:00 hr. Sunny

75°F Wind NW @ 22 mph

Humidity 18% Barometric Pressure

29.93" Hg

Well	DNapl	DTW	T.D.	3 CV gallons	Remarks
MW-37	Ø	60.32'	69.61	4.459	2" mw w/pump
MW-34	Ø	65.45'	76.75	4.94	2" mw w/pump
MW-35	Ø	62.68	76.71	6.73	2" mw w/pump
MW-33	Ø	66.50	—	—	2" mw w/pump
MW-32	Ø	70.88	74.20	1.59	2" mw w/pump
pulled pump to Gauge MW-32					
~~MW-31~~	Ø	71.80'	74.50'	—	2" mw w/pump
pulled pump to Gauge MW-28					
MW-30	Ø	68.03'	—	—	2" mw w/pump
MW-29	Ø	70.95	74.45		2" mw w/pump
pulled pump MW-29 To Gauge well-					
MPE-7	Ø	69.25	—	—	4" MPE well
MPE-8	Ø	~~69.55~~	—	—	4" MPE well
~~MW-27~~	Ø	68.05	—	—	

Location TWP Roswell Station 9 Date 11/10/21

Project / Client GW Monitoring 2021 For

Earthcon Consultants, Inc. By:

CMB Environmental & Geological

Services, Inc. Page 2 of 2

Well #	DNapl	DTW	T.D	3CV gallons	Remarks
MPE-9	~~Ø~~	69.32	—	—	4" MPE well
MW-27	Ø	69.92	75.11	2.49	2" MW
MPE-10		67.55	69.1	—	— MPE w/ pump
69.10 - 67.55 = 1.55' PSH/Napl					
MPE-11	Ø	65.12	—	—	4" MPE well
MW-21	Ø	67.30	75	3.69	2" mw w/pump
MPE-12		66.22	67.28	—	— 4" MPE well
67.28 - 66.22 = 1.06' Napl/PSH					
MPE-13	Ø	66.45'	——		4" MPE w/pump
Had to pull pump to Gauge MPE-13					
MPE-14		65.97'	68.43	——	4" MPE w/pump
68.43' - 65.97' = 2.46' Napl/PSH					
MW-17	Ø	63.65'	67.40	1.8	2" MW
MW-15	Ø	61.75'	—	—	2" mw w/pump
MPE-15	Ø	65.11	—	—	4" MPE well
MPE-18	Ø	64.31	—	—	4" MPE well
MW-16		68.0'	69.18'	—	— 2" MW
69.18' - 68.0 = 1.18' Napl/PSH					

Rite in the Rain

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Location TWP Roswell Station 9 Date 11/10/2021

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Well #	Phase	DTW	T.D.	Gallons SCV	Remarks
MPE-17	Ø	71.62	—	—	4" MPE well w/pump Had to pull pump to Gauge MPE-17.
MPE-38	Ø	68.84	70.40	—	4" MPE well w/pump
		70.40 - 68.84 = 1.56' NAPL/PSH			
MPE-16	Ø	67.55	67.80	—	4" MPE w/pump
		67.80 - 67.55' = 0.25' NAPL/PSH.			
MPE-19	Ø	66.95	—	—	4" MPE well.
MPE-20	Ø	65.20	66.68'	—	4" MPE pump in well
		66.68 - 65.20 = 1.48' NAPL/PSH			
MPE-21	Ø	63.05	—	—	4" MPE well w/pump
MPE-39	Ø	62.26'	—	—	4" MPE well w/pump
MPE-24	Ø	60.60'	—	—	4" MPE w/pump
SVE-24	Ø	Ø	28.60	—	2" SVE well.
MW-14	Ø	55.60	64.5	4.27	2" MW w/pump
MW-11	Ø	65.38'	69.60'	2.02	2" MW
MPE-34	Ø	66.21	—	—	4" MPE well
MPE-30	Ø	66.75	—	—	4" MPE well
SVE-30	Ø	43.25'	44.0'		2" SVE well

Location TWP Roswell Station 9 Date 11/10/2021

Project / Client GW Monitoring 2021 / For EarthCon Consultants, Inc. By: CMB

Environmental & Geological Services, Inc. Page 4 of 6

Well	Phase	DTW	T.D.	Gallons SCV	Remarks
MPE-29	Ø	68.45	—	—	4" MPE well
MW-10	Ø	70.0	72.55	1.22	2" MW
SV-1A	Ø	Ø	29.60'	—	2" Pilot 2" SVE well
MPE-25	Ø	68.25'	—	—	4" MPE well
SVE-25	Ø	32.24	32.80	—	2" SVE well
Black motor/Engine oil on side of IP Probe					
MPE-22	Ø	68.50'	—	—	4" MPE well
SVE-22		33.10	33.20	33.20	2" SVE well
		× 0.10' NAPL/PSH Water @ T.D. ×			
Black engine oil					
SV-2A	Ø	29.42	29.8	—	2" Pilot tst SVE well
MW-3	Ø	67.85'.	—	—	2" MW
MW-13	Ø	65.95	71.90'	2.83	2" MW w/pump
MPE-23	Ø	64.69'	—	—	4" MPE w/pump
SVE-23			—	—	2" SVE well
MW-1B		62.55'	63.50'	—	— 2" MW
		63.30 - 62.55 = 0.95' NAPL/PSH			
MPE-40		64.35'	64.58'	—	— 4" MPE well w/2" pump
		64.58 - 64.35 = 0.23' NAPL/PSH			

Rite in the Rain

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Location Twp Roswell Station 9 Date 11/10/23

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Well #	Diagl	DTW	T.D.	3 Gallons	Remarks
MPE-26	Ø	66.05	—	—	4" MPE well
SVE-26	Ø	Ø	32.60'	—	2" SVE well
SVE-3	Ø	Ø	62.0	—	2" pilot test SVE well
MPE-27	Ø	65.60'	—	—	4" MPE w/pump
Pulled pump to gauge MPE-27					
SVE-27	Ø	Ø	34.0	—	2" SVE well
RW-1	Ø	33.40'	49.65	31.687	4" Recovery well
MPE-28	57.90	57.92	—	—	4" MPE well.
57.92' - 57.90 = 0.02' Napl/PSH					
SVE-28	Ø	28.92'	34.80'		2" SVE well
MPE-31	64.61	64.62	—	—	4" MPE well w/pump
64.62 - 64.61 = 0.01' Napl/PSH					
SVE-31	~~30.63'~~	~~33.10'~~	—	—	2" SVE well
	Ø	30.63	33.10	1.18	
MW-2	Ø	61.40	61.40'		2" MW
MW-7	Ø	66.32	—	—	2" MW
MPE-33	Ø	52.62'	—	—	4" MPE well
MW-20	Ø	52.53	64.0	5.50	2" MW w/pump
MPE-37	Ø	52.38'	—	—	4" MPE well
MW-24	Ø	50.18	65.0	7.11	2" MW w/pump

Location Twp Roswell Station 9 Date 11/10/23

Project / Client GW Monitoring 2021 For Earthcon Consultants, Inc. By: CMB

Environmental & Geological Services, Inc

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Well #	Diagl	DTW	T.D.	Gallons 3 CV	Remarks
MPE-36	Ø	54.92	—	—	4" MPE well
MW-22	Ø	58.11	65.10'	3.35	2" MW
MPE-35	Ø	60.12'	—	—	4" MPE well w/pump
MPE-41	56.50'	58.65	—	—	4" MPE w/pump
58.65' - 56.50' = 2.15' Napl/PSH					
MW-12	Ø	56.40'	—	—	2" MW
MPE-32	58.0'	- 59.0	—	—	4" MPE well w/ pump
59.0 - 58.0 = 1.0' Napl/PSH					
~~MW-32~~					
MW-24D	Ø	64.45'	180.0	225.32	4" MW
MW-42	Ø	55.75	75.95	9.696	2" MW w/pump.
MW-40	Ø	54.45'	70.13	7.52	2" MW w/pump
MW-41	Ø	57.52'	70.06'	6.01	2" MW w/ pump.
MW-39	Ø	49.37	70.11	9.95	2" MW w/pump

Rite in the Rain

Received by OCD: 10/21/2022 7:35:13 AM

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: 11/14/2021

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): N/A | WELL SCREEN INTERVAL DEPTH: 57 feet to 72 feet | STATIC DEPTH TO WATER (feet): 70.0 | PURGE PUMP TYPE OR (BAILER): Poly Disposable

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

= (72.55 feet – 70.0 = 2.55 feet) X 0.16 gallons/foot = 0.408 gallons

3 WELL VOLUMES = 1.22 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: 14:53 | PURGING ENDED AT: 15:02 | 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	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
14:53	Initial	0	0.25	70.0	7.61	19.68	3756	0.96	11.3	Clear	None
14:55	0.50	0.50	0.25		7.36	19.67	3793	0.94	15.8	Turbid	None
14:57	0.75	0.75	0.25		7.32	19.61	3791	0.91	19.1	Turbid	None
15:00	1.0	1.0	0.25		7.31	19.60	3792	0.91	21.9	Turbid	None
15:02	1.25	1.25	0.25		7.30	19.62	3719	0.86	24.5	Turbid	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinist I-P

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: 15:03 | SAMPLING ENDED AT: 15:05

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	120mL	7.30	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-11 | SAMPLE ID: MW-11 | DATE: 11/14/2021

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): 65.38 | PURGE PUMP TYPE OR BAILER: Poly Bailer

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (69.60 feet – 65.38 = 4.22 feet) x 0.16 gallons/foot = 0.6752 gallons
3 WELL VOLUMES = 2.02 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: 10:26 | PURGING ENDED AT: 10:35 | TOTAL VOLUME PURGED (gallons): 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 (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
10:26	Initial	0	0.25	65.38	7.89	17.73	3837	3.44	-25.9	TURBID	None
10:28	0.5	0.50	0.25		7.55	18.38	3926	3.04	-18.7	TURBID	None
10:31	1.0	1	0.25		7.48	18.64	3891	2.92	-10.6	TURBID	None
10:35	2.0	2	0.25		7.48	18.95	3900	2.70	-3.8	TURBID	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst I.P.

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 Burnhill / CMB | SAMPLER(S) SIGNATURE(S): | SAMPLING INITIATED AT: 10:36 | SAMPLING ENDED AT: 10:38
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-11	3	CG	40mL	HCL	120mL	7.48	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-13	SAMPLE ID: MW-13		DATE: 11/14/2021

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): 65.95	PURGE PUMP TYPE OR BAILER: Poly Disposable

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

= (71.90 feet – 65.95 = 5.95 feet) x 0.16 gallons/foot = 0.952 gallons

3 WELL VOLUMES = 2.85 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: 16:13	PURGING ENDED AT: 16:27	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)
16:13	0	Initial	0.25	65.95	8.14	20.98	3744	0.72	18.7	Clear	None
16:18	1	1	0.25		7.51	20.87	3851	0.64	-32.2	Turbid	None
16:22	2	2	0.25		7.46	20.91	3866	0.65	-37.0	Turbid	None
16:27	3	3	0.25		7.45	20.88	3872	0.68	-36.8	Turbid	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinist I.P.

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: 16:30	SAMPLING ENDED AT: 16:32
Clayton M Barnhill / CMB			
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: HDPE	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	120mL	7.45	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-14 | SAMPLE ID: MW-14 | DATE: 11/13/2021 ~~11/29/2021~~

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): 55.60 | PURGE/PUMP TYPE OR BAILER: BP

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

= (64.5 feet – 55.60 = 8.90 feet) X 0.16 gallons/foot = 1.424 gallons

3 WELL VOLUMES = 4.27 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: 0931 | PURGING ENDED AT: 0955 | TOTAL VOLUME PURGED (gallons): 4.5

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)
0931	Initial	0	0.25	55.60	7.30	17.75	3776	1.27	-53.7	Clear	None
0937	1	1	0.25		7.26	17.63	3795	1.39	-54.1	Turbid	None
0942	2	2	0.25		7.24	17.97	3790	1.46	-55.4	Clear	None
0947	3	3	0.25		7.22	18.39	3819	1.40	-47.0	Clear	None
0955	4.5	4.5	0.25		7.21	18.83	3825	1.39	-39.4	Clear	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst T.P.

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: 0955 | SAMPLING ENDED AT: 0957

PUMP OR TUBING DEPTH IN WELL (feet): | TUBING MATERIAL CODE: HDPE | 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	120 mL	7.21	BTEX 8260	BP	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: 638 N. Main ST. Roswell, NM 88201	
WELL NO: MW-16	SAMPLE ID: MW-16	DATE: 11/13/2021

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 69.18'	PURGE PUMP TYPE OR BAILER: N/A

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

= (feet – N/A feet) X gallons/foot = gallons

3 WELL VOLUMES = 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)
					DID NOT Sample				69.18'		
					68.0						
					D_{NAPL} = 69.18'			D_{TW} = 68.0'			
					1.18' NAPL/PSH Thickness.						

INSTRUMENTS USED: Solinst I.P.

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 Bernhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
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)

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:	11/13/2021		

PURGING DATA

WELL DIAMETER (inches):	2"	TUBING DIAMETER (inches):	1/2"	WELL SCREEN INTERVAL DEPTH:	53 feet to 68 feet	STATIC DEPTH TO WATER (feet):	63.65	PURGE PUMP TYPE OR (BAILER)	Poly Disposable

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

= (~~70~~ 67.40 feet – 63.65 = 3.75 feet) X 0.16 gallons/foot = 0.60 gallons

3 WELL VOLUMES = gallons

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

= 1.8 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: 10:11	PURGING ENDED AT: 11:20	TOTAL VOLUME PURGED (gallons): 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 (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
11:11	Initial	0	0.25	63.65	8.05	16.11	4061	3.74	-52.2	TURBID	None
11:16	1.0	1.0	0.25	/	7.57	18.68	4092	4.44	-22.8	TURBID	None
11:18	1.5	1.5	0.25	/	7.54	18.52	4104	4.87	-21.7	TURBID	None
11:20	2.0	2.0	0.25	/	7.55	18.61	4109	5.20	-21.9	TURBID	None

INSTRUMENTS USED: YSI 556 mps Hanna 98194 Solinst IP.

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: 11:22	SAMPLING ENDED AT: 11:23
PUMP OR TUBING DEPTH IN WELL (feet):	/	TUBING MATERIAL CODE:	HDPE	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	3	CG	40mL	HCl	120mL	7.55	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-20	SAMPLE ID: MW-20	DATE: 11/22/2021	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/2"	WELL SCREEN INTERVAL DEPTH: 46.9 feet to 61.8 feet	STATIC DEPTH TO WATER (feet): 52.53	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 − 52.53 = 11.47 feet) X 0.16 gallons/foot = 1.83 gallons

3 WELL VOLUMES = 5.50 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: 14:49	PURGING ENDED AT: 15:07	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)
14:49	Initial	0	0.50	52.53	7.62	17.98	3870	3.45	17.0	Turbid	None
14:55	1	1	0.50		7.33	18.47	3881	3.49	23.3	Clear	None
14:57	2	2	0.50		7.32	18.46	3880	7.20	27.3	Clear	None
15:02	3	3	0.50		7.30	18.43	3891	6.74	31.8	Clear	None
15:04	4	4	0.50		7.30	18.46	3899	6.72	32.3	Clear	None
15:07	5.50	5.50	0.50		7.30	18.45	3896	6.71	34.5	Clear	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194

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, PG	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:07	SAMPLING ENDED AT: 15:20
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	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-20	3	CG	40ml	HCl	120 mL		8260 Full List	BP	0.50
MW-20 Duplicate	3	CG	40ml	HCl	120 mL		+ J & MDL	BP	
MW-20	1	AG	1 Liter	None	1 Liter		8270 Sim 1.4	BP Dioxane	
MW-20 Duplicate	1	AG	1 Liter	None	1 Liter		Naphthalene, 1-methylnaphthene, 2-Methylnaphthalene J & MDL		

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 Street Roswell NM 88201

WELL NO: MW-22 | SAMPLE ID: MW-22 | DATE: 11/22/2021

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER (inches): N/A | WELL SCREEN INTERVAL DEPTH: feet to feet | STATIC DEPTH TO WATER (feet): 58.11 | PURGE PUMP TYPE OR BAILER: 2" Poly Disposable

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

= (65.10 feet – 58.11 = 6.99 feet) X 0.16 gallons/foot = 1.118 gallons

3 WELL VOLUMES = 3.35 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: 1418 | PURGING ENDED AT: 1435 | 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)
14:18	0	Initial	0.25	58.11	7.03	20.24	3962	3.59	-88.1	Turbid	None
14:24	1	1	0.25		7.34	19.63	3851	3.61	-42.5	Turbid	None
14:29	2	2	0.25		7.38	19.32	3847	3.14	-22.2	Turbid	None
14:33	3	3	0.25		7.40	19.36	3847	3.17	-17.1	Turbid	None
1435	3.50	3.5	0.25		7.41	19.35	3842	3.16	-13.2	Turbid	None

INSTRUMENTS USED: YSI 556 MPS HANNA 98194 Solinst F.P.

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: 1440 | SAMPLING ENDED AT: 1450

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-22	1	AG	1 Liter	None	1 Liter		8270 SIM	B	0.25
MW-22 Duplicate							1,4 Dioxane		0.25
							Naphthalene & Methylnaphthalene		
							2 Methylnaphthalene		
MW-22 Duplicate							1 & MDL		
MW-22	3	CG	HDPE	HCl	120mL		~~BTEX~~ 8260 + 1 & MDL	Voc's Full List	

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 8820
WELL NO:	MW-24D	SAMPLE ID:	MW-24D
DATE:	11/22/2021		

PURGING DATA

WELL DIAMETER (inches):	4"	TUBING DIAMETER (inches):	N/A	WELL SCREEN INTERVAL DEPTH:	146 feet to 176 feet	STATIC DEPTH TO WATER (feet):	64.45	PURGE PUMP TYPE OR BAILER	10' PVC 1.5"x3.0 Poly Disposable

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

= (180 feet − 64.45) = 115.55 feet) x 0.65 gallons/foot = 75.10 gallons

3 WELL VOLUMES = 225.32 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: 1615	PURGING ENDED AT: 1650	TOTAL VOLUME PURGED (gallons): 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)
16:15	Imtw	0	1.66	64.45	7.71	17.14	3336	3.16	-179.8	Clear	Strong Sulfur
1621	10	10	1.66		7.47	18.39	3460	3.14	-192.9	Clear	" "
1628	20	20	1.66		7.46	18.58	3385	3.17	-184.0	Clear	Strong Sulfur odor
1635	30	30	1.66		7.42	18.52	3470	3.16	-193.4	Clear	" " "
1642	40	40	1.66		7.41	18.64	3520	3.15	-197.1	Clear	Strong Sulfur odor
1650	50	50	1.66		7.41	18.17	3619	3.15	-192.7	Clear	" " "

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solonist I.P.

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: 1650	SAMPLING ENDED AT: 1652
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-24D	3	CG	40mL	HCl	120 mL	7.41	BTEX 8260	B	1.66

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-26 | SAMPLE ID: MW-26 | DATE: 11/22/2021

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): 50.18 | 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 − 50.18 = 14.82 feet) x 0.16 gallons/foot = 2.37 gallons
3 WELL VOLUMES = 7.11 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: 1539 | PURGING ENDED AT: 1556 | 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 (mV)	COLOR (describe)	ODOR (describe)
15:39	Initial	0	0.40	50.18	8.16	16.58	3763	6.23	12.3	Clear	None
15:44	2	2	0.40		7.81	16.99	3761	6.25	18.5	Clear	None
15:49	4	4	0.40		7.33	17.68	3854	6.27	31.1	Clear	None
15:54	6	6	0.40		7.73	17.92	3820	6.28	32.1	Clear	None
15:56	7.25	7.25	0.40		7.29	17.85	3861	6.25	39.2	Clear	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solonist I.P.

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: 1556 | SAMPLING ENDED AT: 1608
PUMP OR TUBING DEPTH IN WELL (feet): | TUBING MATERIAL CODE: HDPE | 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	7.29	8260 VOC's + SJ + MDL	BP	0.40
MW-26	1	AG	Nitric	None	1 Liter	7.29	8270 Sims 1,4 Dioxane Naphthalene, 1-methylnaphthalene 2 methylnaphthalene		

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: 631 N. Main St. Roswell, NM 88201
WELL NO: MW-21	SAMPLE ID: MW-21
	DATE: 11/12/2021

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): 67.30	PURGE PUMP TYPE OR BAILER: BP

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

= (75.0 feet – 67.30 = 7.70 feet) X 0.16 gallons/foot = 1.23 gallons

3 WELL VOLUMES = 3.69 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: 1330	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 3.75

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)
1330 pm	0	0	0.142	67.30	8.31	18.64	3086	1.73	-18.2	clear	NO
1337	1	1	0.142		7.22	19.26	3171	2.04	-102.8	turbid	clear/ NO
1343	2	2	0.142		7.16	18.57	3170	1.71	-101.1	clear	NO
1349	3	3	0.142		7.16	18.50	3171	1.62	-98.7	clear	NO
1355	3.75	3.75	0.142		7.16	18.55	3163	1.77	-99.7	clear	NO

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst I.P

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: 1400	SAMPLING ENDED AT: 1403
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	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	120mL	HCl	120 mL	7.16	BTEX 8260	BP	0.142

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 #a	SITE LOCATION:	1381 N. Main St. Roswell, NM 88201
WELL NO:	MW-27	SAMPLE ID:	MW-27
		DATE:	11/12/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER
2"	N/A	55 feet to 75 feet	69.92	

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

= 75.11 feet − 69.92 = 5.19 feet) X 0.16 gallons/foot = 0.830 gallons

3 WELL VOLUMES = 2.49 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):
		11:56a	12:22	2.5

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)
11:56a	Initial	0	0.25	69.92	6.94	18.32	3913	2.64	-151.7	clear	strong HC
12:01p	0.50	0.50	0.25		6.92	18.85	3977	2.33	-164.8	turbid	strong HC
12:05	1.0	1.0	0.25		6.93	19.12	3977	1.99	-164.9	turbid	strong HC
12:18	2.0	2.0	0.25		6.99	18.26	3972	1.97	-175.9	turbid	strong HC
12:22	2.5	2.5	0.25		7.04	18.33	3971	2.34	-181.1	turbid	strong HC

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst I.P.

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		12:23	1228

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					
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	3	CG	40mL	HCL	120 mL	7.04	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-29	SAMPLE ID: MW-29
	DATE: 11/11/2021

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): 70.95	PURGE PUMP TYPE OR BAILER: BP Poly Bailer

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

= (74.45 feet − 70.95 = 3.5 feet) X 0.16 gallons/foot = 0.56 gallons

3 WELL VOLUMES = 1.69 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: 10:28	PURGING ENDED AT: 10:40	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)
10:28	Initial	0	0.25	70.95	7.77	18.43	3657	5.81	−109.6	TURBID	None
10:34	0.50	0.50	0.25		7.37	18.56	3631	4.54	−93.3	TURBID	None
10:36	1.0	1.0	0.25		7.32	18.76	3615	5.98	−93.4	TURBID	None
10:40	1.75	1.75	0.25		7.32	18.25	3611	4.03	−91.2	TURBID	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst I.P.

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 Barnhill / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:42	SAMPLING ENDED AT: 10:45
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	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	BTEX 8260	BP	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-32	SAMPLE ID:	MW-32
		DATE:	11/11/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER
2"	1/2"	60 feet to 75 feet	70.88	Poly Bailer

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

= (74.20 feet − 70.88 = 3.32 feet) X 0.16 gallons/foot = 0.5312 gallons

3 WELL VOLUMES = 1.59 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: 0849	PURGING ENDED AT: 0900	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)
0849	Initial	0	0.25	70.88	7.28	17.76	3617	4.54	−64.6	Turbid	None
0852	0.50	0.50	0.25	/	7.44	18.03	3656	5.24	−108.3	Turbid	None
0856	1.0	1.0	0.25	/	7.42	18.23	3655	4.77	−107.9	Turbid	None
0900	1.75	1.75	0.25	/	7.42	18.30	3641	4.58	−105.5	Turbid	None

INSTRUMENTS USED: YSI 556 Hanna 9894 Solinst I.P.

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: 0900	SAMPLING ENDED AT: 0904
Clayton M Bornhill / CMB			
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: HDPE	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-32	3	CG	40mL	HCL	120mL	7.42	BTEX 8260	B	0.25
MW-32 Duplicate	3	CG	40mL	HCL	120mL	7.42	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: 6301 N. main st. Roswell, NM 88201		
WELL NO: MW-34	SAMPLE ID: MW-34	DATE: 11/11/2021	

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): 65.45	PURGE PUMP TYPE OR BAILER: 2" BP

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

= (~~80~~ 75.75 feet – 65.45 = 10.3 feet) X 0.16 gallons/foot = 1.648 gallons

3 WELL VOLUMES = 4.94 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: 11:56	PURGING ENDED AT: 12:21	TOTAL VOLUME PURGED (gallons): 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)
11:56a	Initial	0	0.16	65.45	7.59	19.46	3234	3.96	8.4	Clear	NO
12:01	~~1~~ 1	~~1~~ 1	0.16	/	7.49	19.47	3610	3.00	-2.5	Clear	NO
12:05	~~2~~ 2	~~2~~ 2	0.16	/	7.39	19.36	3610	2.30	-10.5	Clear	NO
12:11	~~3~~ 3	~~3~~ 3	0.16	/	7.35	19.27	3606	1.80	-10.6	Clear	NO
12:17	~~4~~ 4	~~4~~ 4	0.16	/	7.34	19.30	3597	1.50	-12.8	Clear	NO
12:21	5	5	0.16		7.33	19.30	3596	1.47	-13.5	Clear	NO

INSTRUMENTS USED: YSI 556 MPS, Solinst IP, Hanna Instruments 98194

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: CMB/AC / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:25	SAMPLING ENDED AT: 12:30p
PUMP OR TUBING DEPTH IN WELL (feet): /	TUBING MATERIAL CODE: HDPE	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	7.33	BTEX 8260	BP	~~0.25~~ 0.16

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-35	SAMPLE ID: MW-35	DATE: 11/11/2021

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): 62.68	PURGE (PUMP) TYPE OR BAILER: BP 2"

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

= (76.71 feet – 62.68 = 14.03 feet) X 0.16 gallons/foot = 2.244 gallons

3 WELL VOLUMES = 6.73 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: 13:11	PURGING ENDED AT: 13:45	TOTAL VOLUME PURGED (gallons): 7

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)
13:11	0	Initial	0.33	62.68	7.99	19.01	3966	~~0.52~~ 6.62	69.4	slightly turbid	NO
13:27	2	2	0.33		7.59	19.50	4058	6.65	61.0	turbid	NO
13:31	4	4	0.20		7.53	19.41	4065	6.85	60.0	turbid	NO
13:41	6	6	0.20		7.48	19.12	4051	7.22	59.7	turbid	NO
13:45	7	7	0.25		7.48	19.18	4060	7.34	60.8	turbid	NO

INSTRUMENTS USED: YSI 556 HI98194 Solinst I.P.

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: CMB/AC / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:47	SAMPLING ENDED AT: 13:50
PUMP OR TUBING DEPTH IN WELL (feet): /	TUBING MATERIAL CODE: HDPE	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	120mL	7.48	BTEX 8260	BP	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-37	SAMPLE ID:	MW-37
DATE:	11/10/2021		

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):	60.32	PURGE PUMP TYPE OR BAILER:	BP

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

= (69.61 feet – 60.32 = 9.29 feet) X 0.16 gallons/foot = 1.486 gallons

3 WELL VOLUMES = 4.459 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: 12:46	PURGING ENDED AT: 13:01	TOTAL VOLUME PURGED (gallons): 4.5

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)
12:46	Initial	0	0.25	60.32	7.26	19.22	3896	3.1	53.8	Clear	NO
12:51	1	1	0.25		7.23	19.20	3460	1.8	50.4	Clear	NO
12:53	2	2	0.25		7.23	19.20	3895	1.6	47.2	slight turbid	NO
12:57	3	3	0.25		7.23	19.24	3891	1.8	44.5	Clear	NO
13:01	4.5	4.5	0.25		7.22	19.27	3885	1.9	45.2	Clear	NO

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst. I.P.

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: 13:05	SAMPLING ENDED AT: 13:09
CM Barnhill PG / CMB			

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	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	120mL	7.22	BTEX 8260	BP	0.25
MW-37 Duplicate	3	CG	40mL	HCL	120mL	7.22	BTEX 8260	BP	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-39	SAMPLE ID: MW-39	DATE: 11/23/2021	

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): 49.37	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 – 49.37 = 20.74 feet) x 0.16 gallons/foot = 3.31 gallons

3 WELL VOLUMES = 9.95 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):
64.0	64.0	12:24	12:51	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)
12:24	Initial	0		49.37	8.01	18.86	3835	2.80	6.5	Clear	None
12:29	2	2			7.26	18.89	3896	3.10	2.48	Clear	None
12:35	4	4			7.26	18.87	3847	3.10	24.8	Clear	None
12:41	6	6			7.25	18.87	3845	3.21	27.9	Clear	None
12:46	8	8			7.25	18.88	3847	3.11	25.7	Clear	None
12:51	10	10			7.24	18.87	3841	3.10	30.8	Clear	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solonist I.P.

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 McBrayer / CMB	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:52	SAMPLING ENDED AT: 12:56
PUMP OR TUBING DEPTH IN WELL (feet): 64.0	TUBING MATERIAL CODE: HDPE	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	7.24	VOCs 8260 + MDL	BP	5
MW-39	1	AG	1 Liter	None	1 Liter	7.24	8270 SIM 1,4 Dioxane, Naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene. + MDL		

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-40	SAMPLE ID: MW-40		DATE: 11/23/21

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): 54.45	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 − 54.45 = 15.68 feet) X 0.16 gallons/foot = 2.508 gallons

3 WELL VOLUMES = 7.52 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	11:10	11:23	7.5

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)
11:10	Initial	0	0.50	54.45	7.43	18.45	3848	3.24	4.7	TURBID	None
11:13	2	2	0.50		7.41	18.42	3846	3.24	6.8	Clear	None
11:17	4	4	0.50		7.39	18.38	3367	3.28	10.0	Clear	None
11:21	6	6	0.50		7.39	18.40	3370	3.24	11.5	Clear	None
11:23	7.5	7.5	0.50		7.40	18.41	3371	3.24	11.6	Clear	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst I.P.

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: 11:24	SAMPLING ENDED AT: 11:30
PUMP OR TUBING DEPTH IN WELL (feet): 62.31	TUBING MATERIAL CODE: HDPE	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	7.40	VOCs 8260 TC, MDL	BP	0.50
MW-40	1	AG	1 Liter	None	1 Liter	7.40	8270 Sims 1,4 Dioxane; Naphthalene; 1-Methyl naphthalene; 2-Methyl naphthalene TC, MDL		

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 Street Roswell NM 88201
WELL NO:	MW-41	SAMPLE ID:	MW-41
		DATE:	11/23/2021

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):	57.52	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 − 57.52 = 12.54 feet) X 0.16 gallons/foot = 2.00 gallons

3 WELL VOLUMES = 6.01 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:	11:50	PURGING ENDED AT:	12:09	TOTAL VOLUME PURGED (gallons):	6.0

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)
11:50	Initial	0	0.33	57.52	7.81	19.48	3733	3.25	-1.6	Clear	None
11:56	2	2	0.33	/	7.28	19.39	3755	3.26	19.3	Clear	None
12:02	4	4	0.33	/	7.27	19.38	3758	3.26	22.7	Clear	None
12:09	6	6	0.33	/	7.26	19.38	3357	3.27	23.5	Clear	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solomist I.P.

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 Burnhill / CMB	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	12:10	SAMPLING ENDED AT:	12:20
PUMP OR TUBING DEPTH IN WELL (feet):	58.49'	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-41	3	CG	40mL	HCl	120mL	7.26	8260 VOCs To MDL	BP	0.33
MW-41	1	AG	1 Liter	None	1 Liter	7.26	Sims 8270, 1,4 Dioxane, Naphthalene, 1-Methylnaphthalene, 2 methylnaphthalene To MDL		

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: Oct

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:	11/23/21

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):	55.75	PURGE PUMP TYPE OR BAILER:	BP

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

= (75.45 feet – 55.75 = 20.7 feet) X 0.16 gallons/foot = 3.23 gallons

3 WELL VOLUMES = 9.696 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:	10:14	PURGING ENDED AT:	10:35	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)
10:14	Initial	0	0.50	55.75	7.34	18.43	3844	2.24	-26.1	Clear	None
10:21	3	3	0.50	〃	7.31	18.61	3843	2.28	-22.2	Clear	None
10:27	6	6	0.50	〃	7.29	18.70	3851	2.24	-17.6	Clear	None
10:33	9	9	0.50	〃	7.26	18.71	3863	2.23	-2.8	Clear	None
10:35	10	10	0.50	〃	7.25	18.75	3865	2.23	-0.3	Clear	None

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solonist I.P.

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:	1036	SAMPLING ENDED AT:	10:46
PUMP OR TUBING DEPTH IN WELL (feet):	64.03	TUBING MATERIAL CODE:	HDPE	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-42	3	CG	40mL	HCL	120mL	7.25	VOC's 8260 J & MDL	BP	0.50
MW-42	1	AG	1 Liter	None	1 Liter	7.25	8270 SIMS 1,4 Dioxane Naphthalene, 1-Methylnaphthalene 2 methylnaphthalene. J & MDL		

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:	11/15/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2"	N/A	25 feet to 35 feet	28.92	Poly Disposable

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

= (34.80' feet − 28.92 = 5.88 feet) X 0.16 gallons/foot = 0.9408 gallons

3 WELL VOLUMES = 2.82 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):
		12:24	12:37	3.0

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)
12:24	Initial	0	0.25	28.92	7.14	19.42	3324	4.04	-87.6	TURBID	Slight HC
12:29	1.0	1.0	0.25	1	7.07	20.29	3407	2.65	-100.2	TURBID	Slight HC
12:34	2.0	2.0	0.25	/	7.06	19.87	3408	3.02	-100.1	TURBID	Slight HC
12:37	3.0	3.0	0.25	/	7.09	19.87	3413	2.93	-97.6	TURBID	Slight HC

INSTRUMENTS USED: YSI 556 MPS Hanna 9829 Solinst I.P.

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 / Ensr		12:38	12:47

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					
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	7.09	~~BT~~ Voc 8260 J & MDL	B	0.25
SVE-28	1	AG	1 Liter	None	1 Liter	7.09	8270 SIMS 1,4 Dioxane, naptholene 1 meth/naphthalene 2 meth/naptholene only J & MDL	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 Street Roswell, NM
WELL NO:	SVE-30	SAMPLE ID:	SVE-30
DATE:	11/14/2021		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR (BAILER)
2"	N/A	20 feet to 45 feet	43.25	Poly Disposable

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

= (44.0 feet − 43.25 = 0.75 feet) X 0.16 gallons/foot = 0.12 gallons

3 WELL VOLUMES = 0.36 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)

No Parameters Taken
0.75' Well Column. — Probably Not Groundwater
Probably Only Condensation Water
Sampled Immediately — Due to Small Well Column.
Well Bailed Dry Immediately

INSTRUMENTS USED: Solinst I.P.

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 McBurnhill / CMB		1120	1130

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	1	AG	1 Liter	None	1 Liter	N/A	8270 Simims	B	0.25
							1,4 Dioxane	B	0.25
							Naphthalene		
							1 Methylnaphthalene		
							2 Methylnaphthalene		
SVE-30	3	CG	40mL	HCL	120mL	N/A	8260 Full List + MDL	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 Street Roswell, NM 88201
WELL NO:	SVE-31	SAMPLE ID:	SVE-31
DATE:	11/15/2022		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR (BAILER):
2	N/A	25 feet to 35 feet	30.63'	Poly Disposible

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

= (33.10 feet − 30.63 = 2.47 feet) X 0.16 gallons/foot = 0.3952 gallons

3 WELL VOLUMES = 1.18 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: 1323	PURGING ENDED AT: 1330	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	OXYGEN REDUCTION POTENTIAL (mV)	COLOR (describe)	ODOR (describe)
13:23	Initial	0	0.25	30.63'	7.35	18.72	4362	2.76	-28.9	Turbid	None
13:25	0.50	0.50	0.25	/	7.16	20.16	4455	2.41	-13.5	Turbid	None
13:27	1.0	1.0	0.25	/	7.14	20.07	4457	2.40	-12.6	Turbid	None
13:30	1.25	1.25	0.25	/	7.14	19.70	4468	2.33	-9.9	Turbid	None

INSTRUMENTS USED: YSI 556 mps Hanna 98194 Solonist I.P.

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		1331	1334

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					
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-31	3	CG	40mL	HCl	120mL	7.14	VOC's 8260D Full List + TICs + MDL	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:	11/15/2021		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4"	1"	N/A feet to N/A feet	33.40'	4" Pump

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

= (49.65 feet − 33.40 = 16.25 feet) X 0.65 gallons/foot = 10.56 gallons

3 WELL VOLUMES = 31.687 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):
		11:24	11:31	32

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)
50142 11:21	Initial	0	0.30	33.40'	6.94	19.29	3596	5.20	-84.9	Clear	Strong HC odor
11:24	10	10	0.30		7.00	21.33	3537	4.87	-152.4	Clear	Strong HC
11:27	20	20	0.30		7.01	20.61	3561	2.86	-153.6	clear	Strong HC
11:31	32	32	0.30		7.11	21.06	3280	2.89	-156.0	Clear	Strong HC

INSTRUMENTS USED: YSI 556 MPS Hanna 98194 Solinst I.P.

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 McBurnhill / CMB	PP	11:32	11:37

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

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	120mL	7.11	VOC's 8260 J & MDL	APP	
RW-1	1	AG	1 Liter	None	1 Liter	7.11	8270 SIMS 1,4 Dioxane, Naphthalene, 1-Methylnaphthalene, 2,-Methylnaphthalene only J & MDL	APP	

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 8:38:59 AM

Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: Earthlon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway Suite 100
Marietta, Ga. 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@earthlon.com
QA/QC Package: SDiamond@Earthlon.com
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Earthlon Consultants, Inc. TWP Roswell Station 9
Project #: 02.2012.003710 Bi-Annual GW Monitoring 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PE
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): (°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 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
11/10/21	1305	H_2O	MW-37	3x40mL Vials	HCl												X
11/10/21	13:05	H_2O	MW-37 Duplicate														X
11/11/21	0900	H_2O	MW-32														X
11/11/21	0900	H_2O	MW-32 Duplicate														X
11/11/21	1042	H_2O	MW-29														X
11/11/21	1225	H_2O	MW-34														X
11/11/21	1347	H_2O	MW-35														X
11/12/21	1228	H_2O	MW-27														X
11/12/21	1400	H_2O	MW-21														X
			Trip Blank	2x40mL Vials	HCl												X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/18/21	15:30					
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.

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TRACKING NUMBER K305 800 924 9

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO. 1 A F 8 0 2

REFERENCE NUMBER EarthCon Consultants, Inc. TWP Roswell Station 9

NAME CM Barnhill, PG 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 TELEPHONE 505-345-3975

COMPANY HALL ENVIRONMENTAL DEPT./FLR.

STREET ADDRESS 4901 HAWKINS NE RM A Residential Delivery ☐

CITY AND STATE ALBUQUERQUE NM ZIP CODE 87109

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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	
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TOTAL CHARGES	$

8 METHOD OF PAYMENT

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RECORD ACCOUNT NO. IN SECTION 9

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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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Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:43 AM

Chain-of-Custody Record

Client: Earth Con Consultants Inc
ATTN: Sofie Weber-Snapp
Mailing Address: 1580 West Oak Parkway Suite 100
Marietta, Ga 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@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 #: 02.2012.003710 Bi-Annual GW Monitoring 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): (°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.	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) + J & MDL Factors	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260	8270 SIMS, 1,4 Dioxane	Naphthalene, J & MDL	1-Methylnaphthalene	2-Methylnaphthalene only
11/15/21	1400	H2O	Field Blank	3x40mL VOAs	HCl												X				
11/13/21	11:22	H2O	MW-17	3x40mL VOAs	HCl												X				
11/14/21	0955	H2O	MW-14	3x40mL VOAs	HCl												X				
11/14/21	1036	H2O	MW-11	3x40mL VOAs	HCl												X				
11/14/21	1120	H2O	SVE-30	3x40mL VOAs	HCl								X					X	X	X	X
11/14/21	1120	H2O	SVE-30	1x1Liter	None													X	X	X	X
11/14/21	1503	H2O	MW-10	3x40mL VOAs	HCl												X				
11/14/21	1630	H2O	MW-13	3x40mL VOAs	HCl												X				
11/15/21	1132	H2O	RW-1	3x40mL VOAs	HCl								X								
11/15/21	1132	H2O	RW-1	1x1Liter	None													X	X	X	X
11/15/21	12:38	H2O	SVE-28	3x40mL VOAs	HCl								X								
11/15/21	12:38	H2O	SVE-28	1x1Liter	None													X	X	X	X
11/15/21	1331	H2O	SVE-31	3x40mL VOAs	HCl																

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/21/21	20:00					

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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1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO. 1 A F 8 0 2

REFERENCE NUMBER Earthcon Consultants, Inc
Twp Roswell Station 9

NAME C M Bernhill, 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 DEPT./FLR.

STREET ADDRESS 4901 HAWKINS NE RM A Residential Delivery ☐

CITY AND STATE ALBUQUERQUE NM ZIP CODE 87109

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	CHARGES
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C.O.D. shipping may be available at UPS.com	
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TOTAL CHARGES	$

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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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Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway Suite 109
Marietta, Ga. 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@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 #: 02.2012.003710 Bi-Annual GW Monitoring 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PT
On Ice: ☒ Yes ☐ No
# of Coolers: 2
Cooler Temp (including CF): (°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.	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 + MDL	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260	8270 SIMS, 1,4 Dioxane	Naphthalene, 1-MDL	1-Methylnaphthalene	2-Methylnaphthalene only
11/22/21	1440	H2O	MW-22	3x40mL VOAs/1x1L	None/HCl									X				X	X	X	X
11/22/21	1440	H2O	MW-22 Duplicate	3x40mL VOAs/1x1L	None/HCl									X				X	X	X	X
11/22/21	1520 1556	H2O	MW-20	3x40mL VOAs/1x1L	HCl/None									X				X	X	X	X
11/22/21	1556	H2O	MW-26	3x40mL VOAs/1x1L	HCl/None									X				X	X	X	X
11/22/21	1650	H2O	MW-24D	3x40mL VOAs	HCl												X				
11/23/21	1036	H2O	MW-42											X				X	X	X	X
11/23/21	1124	H2O	MW-40											X				X	X	X	X
11/23/21	1210	H2O	MW-41											X				X	X	X	X
11/23/21	1252	H2O	MW-39											X				X	X	X	X
			TRIP Blank	2x40mL VOAs	HCl																

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/23/21	1600					

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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1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO. 1 A F 8 0 2

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 DEPT./FLR.

STREET ADDRESS 4901 HAWKINS NE RM A Residential Delivery ☐

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	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	
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TOTAL CHARGES	$

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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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1 SHIPMENT FROM

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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 DEPT./FLR.

STREET ADDRESS 4901 HAWKINS NE RM A 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	$
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C.O.D. shipping may be available at UPS.com	
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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 ☐

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STREET ADDRESS 4901 Hawkins NE

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The UPS Store #4804
115 E COLLEGE BLVD
ROSWELL NM 88201-5158

DROP-OFF DATE/TIME:
Wed 1 Dec 2021 4:26 PM

ESTIMATED PICKUP DATE:
UPS Wed 1 Dec 2021 2pkgs

TOTAL PACKAGES: 2pkgs

TRACKING NUMBER	CARRIER & SERVICE	WEIGH
K3058009285	UPS Ground	40 lb 10.0 o
K3058009276	UPS Ground	43 lb 10.0 o

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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-39	05/11/21	< 1.0	< 1.0	< 1.0	< 1.5	3.6	24
(MW-39 DUP)	05/11/21	< 1.0	< 1.0	< 1.0	< 1.5	3.5	23
	RPD:	--	--	--	--	2.8	4.3
MW-32	11/11/21	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-32 DUP)	11/11/21	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-37	11/10/21	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-37 DUP)	11/10/21	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--
MW-22	05/11/21	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.5
(MW-22 DUP)	05/11/21	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	2.0
	RPD:	--	--	--	--	--	28.6
MW-22	11/22/21	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	2.0
(MW-22 DUP)	11/22/21	< 1.0	< 1.0	< 1.0	< 1.5	<1.0	1.8
	RPD:	--	--	--	--	--	10.5
MW-11	05/11/21	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
(MW-11 DUP)	05/11/21	< 1.0	< 1.0	< 1.0	< 1.5	NA	NA
	RPD:	--	--	--	--	--	--

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: HRB 1/5/2022
Checked by: SSD 3/17/22

Released to Imaging: 11/22/2022 8:38:59 AM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 01, 2021

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2111A38

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 10 sample(s) on 11/19/2021 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: **2111A38**
Date Reported: **12/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Lab Order:** 2111A38
Project: Earth Con Consultants Inc TWP Roswell Station

Lab ID: 2111A38-001 **Collection Date:** 11/10/2021 1:05:00 PM
Client Sample ID: MW-37 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 3:14:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 3:14:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 3:14:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 3:14:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%Rec	1	11/20/2021 3:14:00 PM	R83017
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	11/20/2021 3:14:00 PM	R83017
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	11/20/2021 3:14:00 PM	R83017
Surr: Toluene-d8	100	70-130		%Rec	1	11/20/2021 3:14:00 PM	R83017

Lab ID: 2111A38-002 **Collection Date:** 11/10/2021 1:05:00 PM
Client Sample ID: MW-37 Duplicate **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 4:24:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 4:24:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 4:24:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 4:24:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%Rec	1	11/20/2021 4:24:00 PM	R83017
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	11/20/2021 4:24:00 PM	R83017
Surr: Dibromofluoromethane	96.4	70-130		%Rec	1	11/20/2021 4:24:00 PM	R83017
Surr: Toluene-d8	99.6	70-130		%Rec	1	11/20/2021 4:24:00 PM	R83017

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 interference
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: **2111A38**
Date Reported: **12/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Lab Order:** 2111A38
Project: Earth Con Consultants Inc TWP Roswell Station

Lab ID: 2111A38-003 **Collection Date:** 11/11/2021 9:00:00 AM
Client Sample ID: MW-32 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 4:48:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 4:48:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 4:48:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 4:48:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%Rec	1	11/20/2021 4:48:00 PM	R83017
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/20/2021 4:48:00 PM	R83017
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	11/20/2021 4:48:00 PM	R83017
Surr: Toluene-d8	101	70-130		%Rec	1	11/20/2021 4:48:00 PM	R83017

Lab ID: 2111A38-004 **Collection Date:** 11/11/2021 9:00:00 AM
Client Sample ID: MW-32 Duplicate **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 5:11:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 5:11:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 5:11:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 5:11:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	11/20/2021 5:11:00 PM	R83017
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	11/20/2021 5:11:00 PM	R83017
Surr: Dibromofluoromethane	93.1	70-130		%Rec	1	11/20/2021 5:11:00 PM	R83017
Surr: Toluene-d8	99.2	70-130		%Rec	1	11/20/2021 5:11:00 PM	R83017

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 interference
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: **2111A38**
Date Reported: **12/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Lab Order:** 2111A38
Project: Earth Con Consultants Inc TWP Roswell Station

Lab ID: 2111A38-005 **Collection Date:** 11/11/2021 10:42:00 AM
Client Sample ID: MW-29 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 5:35:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 5:35:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 5:35:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 5:35:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	11/20/2021 5:35:00 PM	R83017
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	11/20/2021 5:35:00 PM	R83017
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	11/20/2021 5:35:00 PM	R83017
Surr: Toluene-d8	99.3	70-130		%Rec	1	11/20/2021 5:35:00 PM	R83017

Lab ID: 2111A38-006 **Collection Date:** 11/11/2021 12:25:00 PM
Client Sample ID: MW-34 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 5:58:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 5:58:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 5:58:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 5:58:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	11/20/2021 5:58:00 PM	R83017
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	11/20/2021 5:58:00 PM	R83017
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	11/20/2021 5:58:00 PM	R83017
Surr: Toluene-d8	98.7	70-130		%Rec	1	11/20/2021 5:58:00 PM	R83017

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 interference
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: **2111A38**
Date Reported: **12/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Lab Order:** 2111A38
Project: Earth Con Consultants Inc TWP Roswell Station

Lab ID: 2111A38-007 **Collection Date:** 11/11/2021 1:47:00 PM
Client Sample ID: MW-35 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 6:22:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 6:22:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 6:22:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 6:22:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%Rec	1	11/20/2021 6:22:00 PM	R83017
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	11/20/2021 6:22:00 PM	R83017
Surr: Dibromofluoromethane	97.7	70-130		%Rec	1	11/20/2021 6:22:00 PM	R83017
Surr: Toluene-d8	99.8	70-130		%Rec	1	11/20/2021 6:22:00 PM	R83017

Lab ID: 2111A38-008 **Collection Date:** 11/12/2021 12:28:00 PM
Client Sample ID: MW-27 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 6:45:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 6:45:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 6:45:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 6:45:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	11/20/2021 6:45:00 PM	R83017
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	11/20/2021 6:45:00 PM	R83017
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	11/20/2021 6:45:00 PM	R83017
Surr: Toluene-d8	97.7	70-130		%Rec	1	11/20/2021 6:45:00 PM	R83017

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 interference
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: **2111A38**
Date Reported: **12/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Lab Order:** 2111A38
Project: Earth Con Consultants Inc TWP Roswell Station

Lab ID: 2111A38-009 **Collection Date:** 11/12/2021 2:00:00 PM
Client Sample ID: MW-21 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 7:09:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 7:09:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 7:09:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 7:09:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	11/20/2021 7:09:00 PM	R83017
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	11/20/2021 7:09:00 PM	R83017
Surr: Dibromofluoromethane	96.4	70-130		%Rec	1	11/20/2021 7:09:00 PM	R83017
Surr: Toluene-d8	101	70-130		%Rec	1	11/20/2021 7:09:00 PM	R83017

Lab ID: 2111A38-010 **Collection Date:**
Client Sample ID: TRIP BLANK **Matrix:** TRIP BLANK

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/20/2021 7:32:00 PM	R83017
Toluene	ND	1.0		µg/L	1	11/20/2021 7:32:00 PM	R83017
Ethylbenzene	ND	1.0		µg/L	1	11/20/2021 7:32:00 PM	R83017
Xylenes, Total	ND	1.5		µg/L	1	11/20/2021 7:32:00 PM	R83017
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	11/20/2021 7:32:00 PM	R83017
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	11/20/2021 7:32:00 PM	R83017
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	11/20/2021 7:32:00 PM	R83017
Surr: Toluene-d8	100	70-130		%Rec	1	11/20/2021 7:32:00 PM	R83017

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 interference
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#: **2111A38**
01-Dec-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng 8260 lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **R83017** RunNo: **83017**
Prep Date: Analysis Date: **11/20/2021** SeqNo: **2948172** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.2	70	130			
Toluene	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.0	70	130			
Surr: Toluene-d8	9.9		10.00		99.4	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R83017** RunNo: **83017**
Prep Date: Analysis Date: **11/20/2021** SeqNo: **2948173** 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	9.6		10.00		96.1	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **2111A38-001ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-37** Batch ID: **R83017** RunNo: **83017**
Prep Date: Analysis Date: **11/20/2021** SeqNo: **2948176** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.7	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.9	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.5	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **2111A38-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-37** Batch ID: **R83017** RunNo: **83017**
Prep Date: Analysis Date: **11/20/2021** SeqNo: **2948177** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.1	70	130	4.03	20	
Toluene	20	1.0	20.00	0	99.2	70	130	3.05	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 interference
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#: **2111A38**
01-Dec-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **2111A38-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-37** Batch ID: **R83017** RunNo: **83017**
Prep Date: Analysis Date: **11/20/2021** SeqNo: **2948177** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.9		10.00		98.8	70	130	0	0	
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130	0	0	
Surr: Toluene-d8	10		10.00		101	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 interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2111A38** RcptNo: **1**

Received By: **Sean Livingston** **11/19/2021 9:38:00 AM** Sean Livingston

Completed By: **Cheyenne Cason** **11/19/2021 1:12:06 PM** Chey

Reviewed By: DEA 11/19/21

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. 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: TMC 11/19/21

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	2.8	Good	Not Present			

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway Suite 100
Marietta, Ga. 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@earthcon.com
QA/QC Package: SDiMento@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 Rosnell Station 9
Project #: 02.2012.003710 Bi-Annual GW Monitoring 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PE
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 2.9 +0=2.8 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2111A38	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
11/10/21	1305	H_2O	MW-37	3x40mL VOAs	HCl	001											X
11/10/21	13:05	H_2O	MW-37 Duplicate			~~003~~ 002											X
11/11/21	0900	H_2O	MW-32			003											X
11/11/21	0900	H_2O	MW-32 Duplicate			004											X
11/11/21	1042	H_2O	MW-29			005											X
11/11/21	1255	H_2O	MW-34			006											X
11/11/21	1347	H_2O	MW-35			007											X
11/12/21	1328	H_2O	MW-27			008											X
11/12/21	1400	H_2O	MW-21			009											X
			TRIP BLANK	2x40mL VOAs	HCl	~~010~~											X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
11/18/21	15:30		SEL	UPS	11/19/21	9:38
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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 13, 2021

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2111B32

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/23/2021 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 **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-17
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/13/2021 11:22:00 AM
Lab ID: 2111B32-001 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/23/2021 1:14:00 PM	SL83062
Toluene	ND	1.0		µg/L	1	11/23/2021 1:14:00 PM	SL83062
Ethylbenzene	ND	1.0		µg/L	1	11/23/2021 1:14:00 PM	SL83062
Xylenes, Total	1.7	1.5		µg/L	1	11/23/2021 1:14:00 PM	SL83062
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	11/23/2021 1:14:00 PM	SL83062
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	11/23/2021 1:14:00 PM	SL83062
Surr: Dibromofluoromethane	93.4	70-130		%Rec	1	11/23/2021 1:14:00 PM	SL83062
Surr: Toluene-d8	101	70-130		%Rec	1	11/23/2021 1:14:00 PM	SL83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-14
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/14/2021 9:55:00 AM
Lab ID: 2111B32-002 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/23/2021 2:25:00 PM	SL83062
Toluene	ND	1.0		µg/L	1	11/23/2021 2:25:00 PM	SL83062
Ethylbenzene	ND	1.0		µg/L	1	11/23/2021 2:25:00 PM	SL83062
Xylenes, Total	ND	1.5		µg/L	1	11/23/2021 2:25:00 PM	SL83062
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%Rec	1	11/23/2021 2:25:00 PM	SL83062
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	11/23/2021 2:25:00 PM	SL83062
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	11/23/2021 2:25:00 PM	SL83062
Surr: Toluene-d8	99.9	70-130		%Rec	1	11/23/2021 2:25:00 PM	SL83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-11
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/14/2021 10:36:00 AM
Lab ID: 2111B32-003 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/23/2021 2:48:00 PM	SL83062
Toluene	ND	1.0		µg/L	1	11/23/2021 2:48:00 PM	SL83062
Ethylbenzene	ND	1.0		µg/L	1	11/23/2021 2:48:00 PM	SL83062
Xylenes, Total	ND	1.5		µg/L	1	11/23/2021 2:48:00 PM	SL83062
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%Rec	1	11/23/2021 2:48:00 PM	SL83062
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/23/2021 2:48:00 PM	SL83062
Surr: Dibromofluoromethane	96.6	70-130		%Rec	1	11/23/2021 2:48:00 PM	SL83062
Surr: Toluene-d8	98.8	70-130		%Rec	1	11/23/2021 2:48:00 PM	SL83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/14/2021 11:20:00 AM
Lab ID: 2111B32-004 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	4.2	1.0	H	µg/L	1	12/2/2021 7:09:00 PM	64190
Naphthalene	0.10	0.10	H	µg/L	1	12/2/2021 7:09:00 PM	64190
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/2/2021 7:09:00 PM	64190
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/2/2021 7:09:00 PM	64190
Surr: Nitrobenzene-d5	58.0	21.9-89.8	H	%Rec	1	12/2/2021 7:09:00 PM	64190
Surr: 2-Fluorobiphenyl	52.0	15-84.5	H	%Rec	1	12/2/2021 7:09:00 PM	64190
Surr: 4-Terphenyl-d14	99.5	73.1-152	H	%Rec	1	12/2/2021 7:09:00 PM	64190
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Toluene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Ethylbenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2,4-Trimethylbenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Naphthalene	ND	10	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1-Methylnaphthalene	ND	20	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
2-Methylnaphthalene	ND	20	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Acetone	ND	50	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Bromobenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Bromodichloromethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Bromoform	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Bromomethane	ND	15	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
2-Butanone	ND	50	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Carbon disulfide	ND	50	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Carbon Tetrachloride	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Chlorobenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Chloroethane	ND	10	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Chloroform	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Chloromethane	ND	15	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
2-Chlorotoluene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
4-Chlorotoluene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
cis-1,2-DCE	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Dibromochloromethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Dibromomethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062

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

Qualifiers:

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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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/14/2021 11:20:00 AM
Lab ID: 2111B32-004 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,1-Dichloroethane	36	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,1-Dichloroethene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2-Dichloropropane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,3-Dichloropropane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
2,2-Dichloropropane	ND	10	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,1-Dichloropropene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Hexachlorobutadiene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
2-Hexanone	ND	50	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Isopropylbenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
4-Isopropyltoluene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
4-Methyl-2-pentanone	ND	50	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Methylene Chloride	ND	15	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
n-Butylbenzene	ND	15	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
n-Propylbenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
sec-Butylbenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Styrene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
tert-Butylbenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
trans-1,2-DCE	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Trichlorofluoromethane	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
1,2,3-Trichloropropane	ND	10	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Vinyl chloride	ND	5.0	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Xylenes, Total	ND	7.5	D	µg/L	5	11/23/2021 3:35:00 PM	R83062
Surr: 1,2-Dichloroethane-d4	91.5	70-130	D	%Rec	5	11/23/2021 3:35:00 PM	R83062
Surr: 4-Bromofluorobenzene	96.2	70-130	D	%Rec	5	11/23/2021 3:35:00 PM	R83062
Surr: Dibromofluoromethane	96.1	70-130	D	%Rec	5	11/23/2021 3:35:00 PM	R83062
Surr: Toluene-d8	99.8	70-130	D	%Rec	5	11/23/2021 3:35:00 PM	R83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-10
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/14/2021 3:03:00 PM
Lab ID: 2111B32-005 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/23/2021 3:58:00 PM	SL83062
Toluene	ND	1.0		µg/L	1	11/23/2021 3:58:00 PM	SL83062
Ethylbenzene	ND	1.0		µg/L	1	11/23/2021 3:58:00 PM	SL83062
Xylenes, Total	ND	1.5		µg/L	1	11/23/2021 3:58:00 PM	SL83062
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%Rec	1	11/23/2021 3:58:00 PM	SL83062
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	11/23/2021 3:58:00 PM	SL83062
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	11/23/2021 3:58:00 PM	SL83062
Surr: Toluene-d8	99.6	70-130		%Rec	1	11/23/2021 3:58:00 PM	SL83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-13
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/14/2021 4:30:00 PM
Lab ID: 2111B32-006 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/23/2021 4:22:00 PM	SL83062
Toluene	ND	1.0		µg/L	1	11/23/2021 4:22:00 PM	SL83062
Ethylbenzene	ND	1.0		µg/L	1	11/23/2021 4:22:00 PM	SL83062
Xylenes, Total	ND	1.5		µg/L	1	11/23/2021 4:22:00 PM	SL83062
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	11/23/2021 4:22:00 PM	SL83062
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	11/23/2021 4:22:00 PM	SL83062
Surr: Dibromofluoromethane	96.5	70-130		%Rec	1	11/23/2021 4:22:00 PM	SL83062
Surr: Toluene-d8	100	70-130		%Rec	1	11/23/2021 4:22:00 PM	SL83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/15/2021 11:32:00 AM
Lab ID: 2111B32-007 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0	H	µg/L	1	12/2/2021 7:54:00 PM	64190
Naphthalene	0.54	0.10	H	µg/L	1	12/2/2021 7:54:00 PM	64190
1-Methylnaphthalene	0.60	0.10	H	µg/L	1	12/2/2021 7:54:00 PM	64190
2-Methylnaphthalene	0.22	0.10	H	µg/L	1	12/2/2021 7:54:00 PM	64190
Surr: Nitrobenzene-d5	73.5	21.9-89.8	H	%Rec	1	12/2/2021 7:54:00 PM	64190
Surr: 2-Fluorobiphenyl	60.0	15-84.5	H	%Rec	1	12/2/2021 7:54:00 PM	64190
Surr: 4-Terphenyl-d14	92.0	73.1-152	H	%Rec	1	12/2/2021 7:54:00 PM	64190
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	17	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Toluene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Ethylbenzene	3.8	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Naphthalene	ND	2.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Acetone	ND	10		µg/L	1	11/23/2021 4:45:00 PM	R83062
Bromobenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Bromodichloromethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Bromoform	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Bromomethane	ND	3.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
2-Butanone	ND	10		µg/L	1	11/23/2021 4:45:00 PM	R83062
Carbon disulfide	ND	10		µg/L	1	11/23/2021 4:45:00 PM	R83062
Carbon Tetrachloride	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Chlorobenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Chloroethane	ND	2.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Chloroform	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Chloromethane	ND	3.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
2-Chlorotoluene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
4-Chlorotoluene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
cis-1,2-DCE	1.7	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Dibromochloromethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Dibromomethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062

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 interference

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/15/2021 11:32:00 AM
Lab ID: 2111B32-007 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,1-Dichloroethane	2.1	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,1-Dichloroethene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2-Dichloropropane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,3-Dichloropropane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
2,2-Dichloropropane	ND	2.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,1-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Hexachlorobutadiene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
2-Hexanone	ND	10		µg/L	1	11/23/2021 4:45:00 PM	R83062
Isopropylbenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
4-Isopropyltoluene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
4-Methyl-2-pentanone	ND	10		µg/L	1	11/23/2021 4:45:00 PM	R83062
Methylene Chloride	ND	3.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
n-Butylbenzene	ND	3.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
n-Propylbenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
sec-Butylbenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Styrene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
tert-Butylbenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
trans-1,2-DCE	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Trichlorofluoromethane	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Vinyl chloride	ND	1.0		µg/L	1	11/23/2021 4:45:00 PM	R83062
Xylenes, Total	ND	1.5		µg/L	1	11/23/2021 4:45:00 PM	R83062
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	11/23/2021 4:45:00 PM	R83062
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	11/23/2021 4:45:00 PM	R83062
Surr: Dibromofluoromethane	95.9	70-130		%Rec	1	11/23/2021 4:45:00 PM	R83062
Surr: Toluene-d8	101	70-130		%Rec	1	11/23/2021 4:45:00 PM	R83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/15/2021 12:38:00 PM
Lab ID: 2111B32-008 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0	H	µg/L	1	12/2/2021 8:39:00 PM	64190
Naphthalene	ND	0.10	H	µg/L	1	12/2/2021 8:39:00 PM	64190
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/2/2021 8:39:00 PM	64190
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/2/2021 8:39:00 PM	64190
Surr: Nitrobenzene-d5	79.0	21.9-89.8	H	%Rec	1	12/2/2021 8:39:00 PM	64190
Surr: 2-Fluorobiphenyl	59.0	15-84.5	H	%Rec	1	12/2/2021 8:39:00 PM	64190
Surr: 4-Terphenyl-d14	98.0	73.1-152	H	%Rec	1	12/2/2021 8:39:00 PM	64190
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	4.0	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Toluene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Ethylbenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Naphthalene	ND	2.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Acetone	ND	10		µg/L	1	11/23/2021 5:09:00 PM	R83062
Bromobenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Bromodichloromethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Bromoform	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Bromomethane	ND	3.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
2-Butanone	ND	10		µg/L	1	11/23/2021 5:09:00 PM	R83062
Carbon disulfide	ND	10		µg/L	1	11/23/2021 5:09:00 PM	R83062
Carbon Tetrachloride	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Chlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Chloroethane	ND	2.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Chloroform	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Chloromethane	ND	3.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
2-Chlorotoluene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
4-Chlorotoluene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
cis-1,2-DCE	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Dibromochloromethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Dibromomethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/15/2021 12:38:00 PM
Lab ID: 2111B32-008 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,1-Dichloroethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,1-Dichloroethene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2-Dichloropropane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,3-Dichloropropane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
2,2-Dichloropropane	ND	2.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,1-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Hexachlorobutadiene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
2-Hexanone	ND	10		µg/L	1	11/23/2021 5:09:00 PM	R83062
Isopropylbenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
4-Isopropyltoluene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
4-Methyl-2-pentanone	ND	10		µg/L	1	11/23/2021 5:09:00 PM	R83062
Methylene Chloride	ND	3.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
n-Butylbenzene	ND	3.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
n-Propylbenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
sec-Butylbenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Styrene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
tert-Butylbenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
trans-1,2-DCE	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Trichlorofluoromethane	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Vinyl chloride	ND	1.0		µg/L	1	11/23/2021 5:09:00 PM	R83062
Xylenes, Total	ND	1.5		µg/L	1	11/23/2021 5:09:00 PM	R83062
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%Rec	1	11/23/2021 5:09:00 PM	R83062
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	11/23/2021 5:09:00 PM	R83062
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	11/23/2021 5:09:00 PM	R83062
Surr: Toluene-d8	98.4	70-130		%Rec	1	11/23/2021 5:09:00 PM	R83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-31
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/15/2021 1:31:00 PM
Lab ID: 2111B32-009 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Toluene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Ethylbenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Naphthalene	ND	2.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Acetone	ND	10		µg/L	1	11/23/2021 5:33:00 PM	R83062
Bromobenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Bromodichloromethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Bromoform	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Bromomethane	ND	3.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
2-Butanone	ND	10		µg/L	1	11/23/2021 5:33:00 PM	R83062
Carbon disulfide	ND	10		µg/L	1	11/23/2021 5:33:00 PM	R83062
Carbon Tetrachloride	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Chlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Chloroethane	ND	2.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Chloroform	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Chloromethane	ND	3.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
2-Chlorotoluene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
4-Chlorotoluene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
cis-1,2-DCE	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Dibromochloromethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Dibromomethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,1-Dichloroethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,1-Dichloroethene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2-Dichloropropane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,3-Dichloropropane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
2,2-Dichloropropane	ND	2.0		µg/L	1	11/23/2021 5:33:00 PM	R83062

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 interference		

Analytical Report
Lab Order **2111B32**
Date Reported: **12/13/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-31
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/15/2021 1:31:00 PM
Lab ID: 2111B32-009 **Matrix:** AQUEOUS **Received Date:** 11/23/2021 9:25:00 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	11/23/2021 5:33:00 PM	R83062
Hexachlorobutadiene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
2-Hexanone	ND	10		µg/L	1	11/23/2021 5:33:00 PM	R83062
Isopropylbenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
4-Isopropyltoluene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
4-Methyl-2-pentanone	ND	10		µg/L	1	11/23/2021 5:33:00 PM	R83062
Methylene Chloride	ND	3.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
n-Butylbenzene	ND	3.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
n-Propylbenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
sec-Butylbenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Styrene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
tert-Butylbenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
trans-1,2-DCE	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Trichlorofluoromethane	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Vinyl chloride	ND	1.0		µg/L	1	11/23/2021 5:33:00 PM	R83062
Xylenes, Total	ND	1.5		µg/L	1	11/23/2021 5:33:00 PM	R83062
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	11/23/2021 5:33:00 PM	R83062
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	11/23/2021 5:33:00 PM	R83062
Surr: Dibromofluoromethane	97.5	70-130		%Rec	1	11/23/2021 5:33:00 PM	R83062
Surr: Toluene-d8	100	70-130		%Rec	1	11/23/2021 5:33:00 PM	R83062

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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111B32**
13-Dec-21

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: **SL83062** RunNo: **83062**
Prep Date: Analysis Date: **11/23/2021** SeqNo: **2952005** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.9	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.7	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL83062** RunNo: **83062**
Prep Date: Analysis Date: **11/23/2021** SeqNo: **2952006** 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	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130			
Surr: Dibromofluoromethane	10		10.00		99.7	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: **2111B32-001ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-17** Batch ID: **SL83062** RunNo: **83062**
Prep Date: Analysis Date: **11/23/2021** SeqNo: **2952008** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.5	70	130			
Toluene	20	1.0	20.00	0	98.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.7	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.8	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **2111B32-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-17** Batch ID: **SL83062** RunNo: **83062**
Prep Date: Analysis Date: **11/23/2021** SeqNo: **2952009** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	84.3	70	130	4.84	20	
Toluene	19	1.0	20.00	0	94.3	70	130	4.15	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 interference
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#: **2111B32**
13-Dec-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **2111B32-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-17** Batch ID: **SL83062** RunNo: **83062**
Prep Date: Analysis Date: **11/23/2021** SeqNo: **2952009** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.5		10.00		95.0	70	130	0	0	
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130	0	0	
Surr: Toluene-d8	10		10.00		100	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 interference
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#: **2111B32**
13-Dec-21

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: **R83062** RunNo: **83062**
Prep Date: Analysis Date: **11/23/2021** SeqNo: **2951964** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.9	70	130			
Toluene	20	1.0	20.00	0	100	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	89.9	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	89.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.7	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.9	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R83062** RunNo: **83062**
Prep Date: Analysis Date: **11/23/2021** SeqNo: **2953487** 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 interference
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#: **2111B32**
13-Dec-21

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: **R83062**	RunNo: **83062**
Prep Date:	Analysis Date: **11/23/2021**	SeqNo: **2953487** 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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111B32**
13-Dec-21

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: **R83062**	RunNo: **83062**
Prep Date:	Analysis Date: **11/23/2021**	SeqNo: **2953487** 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	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.7	70	130			
Surr: Dibromofluoromethane	10		10.00		99.7	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2111B32**
13-Dec-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **mb-64190** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **64190** RunNo: **83258**
Prep Date: **11/29/2021** Analysis Date: **12/2/2021** SeqNo: **2958243** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	1.0								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Surr: Nitrobenzene-d5	2.4		4.000		59.5	21.9	89.8			
Surr: 2,4,6-Tribromophenol	4.3		8.000		54.0	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.2		4.000		55.5	15	84.5			
Surr: 4-Terphenyl-d14	4.6		4.000		114	73.1	152			

Sample ID: **lcs-64190** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **64190** RunNo: **83258**
Prep Date: **11/29/2021** Analysis Date: **12/2/2021** SeqNo: **2958245** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	0.66	0.10	2.000	0	33.0	15	79.8			
Naphthalene	0.88	0.10	2.000	0	44.0	26.5	90.9			
1-Methylnaphthalene	0.92	0.10	2.000	0	46.0	27.9	88.2			
2-Methylnaphthalene	0.88	0.10	2.000	0	44.0	29.2	87.5			
Surr: Nitrobenzene-d5	3.3		5.000		65.2	21.9	89.8			
Surr: 2,4,6-Tribromophenol	5.6		10.00		56.2	23.4	71.6			
Surr: 2-Fluorobiphenyl	3.0		5.000		60.4	15	84.5			
Surr: 4-Terphenyl-d14	5.5		5.000		111	73.1	152			

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 interference
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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Earth Con Work Order Number: 2111B32 RcptNo: 1

Received By: **Juan Rojas** 11/23/2021 9:25:00 AM

Completed By: **Sean Livingston** 11/23/2021 9:57:10 AM

Reviewed By: KPG 11/23/21

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. 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: JR 11/23/21

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 ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good				

Chain-of-Custody Record

Client: Earth Con Consultants Inc

ATTN: Sofie Weber-Snapp

Mailing Address: 1580 West Oak Parkway Suite 100 Marietta, Ga 30062

Phone #: 770, 973, 2100

email or Fax#: SWeberSnapp@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 #: 02.2012.003710 Bi-Annual GW Monitoring 2021

Project Manager: Sofie Weber-Snapp

Sampler: CM Barnhill, PE

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.9-0.2=2.7 (°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. 2111832	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) + J & MDL Factors	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260	8270 SIMS, 1,4 Dioxane	Naphthalene, J & MDL	1-methylnaphthalene	2-Methylnaphthalene	gmg
11/15/21	1400	H20	~~Field Blank~~ Did not receive SO 11.23.21	3x40mL	HCl	010																
11/13/21	11:22	H20	MW-17	3x40mL VOA's	HCl	001											X					
11/14/21	0955	H20	MW-14	3x40mL VOA's	HCl	002											X					
11/14/21	1036	H20	MW-11	3x40mL VOA's	HCl	003											X					
11/14/21	1120	H20	SVE-30	3x40mL VOA's	HCl	004								X				X	X	X	X	X
11/14/21	1120	H20	SVE-30	1x1Liter	None	↓												X	X	X	X	X
11/14/21	1503	H20	MW-10	3x40mL VOA's	HCl	005											X					
11/14/21	1630	H20	MW-13	3x40mL VOA's	HCl	006											X					
11/15/21	1132	H20	RW-1	3x40mL VOA's	HCl	007								X								
11/15/21	1132	H20	RW-1	1x1Liter	None	↓												X	X	X	X	X
11/15/21	1238	H20	SVE-28	3x40mL VOA's	HCl	008								X								
11/15/21	1238	H20	SVE-28	1x1Liter	None	↓												X	X	X	X	X
11/15/21	1331	H20	SVE-31	3x40mL VOA's	HCl	009																

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/21/21	20:00			UPS	11/23/21	9:25
		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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 02, 2021

Sofie Weber-Snapp

Earth Con
1880 West Oak Parkway Suite 106
marrietta, GA
TEL: (770) 973-2100
FAX

RE: TWP Roswell Station 9 OrderNo.: 2105600

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 21 sample(s) on 5/13/2021 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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-11
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 9:35:00 AM
Lab ID: 2105600-001 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 5:30:33 PM	D77483
Toluene	ND	1.0		µg/L	1	5/18/2021 5:30:33 PM	D77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 5:30:33 PM	D77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 5:30:33 PM	D77483
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	5/18/2021 5:30:33 PM	D77483
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/18/2021 5:30:33 PM	D77483
Surr: Dibromofluoromethane	110	70-130		%Rec	1	5/18/2021 5:30:33 PM	D77483
Surr: Toluene-d8	105	70-130		%Rec	1	5/18/2021 5:30:33 PM	D77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-11 Duplicate
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 9:35:00 AM
Lab ID: 2105600-002 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 5:57:37 PM	D77483
Toluene	ND	1.0		µg/L	1	5/18/2021 5:57:37 PM	D77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 5:57:37 PM	D77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 5:57:37 PM	D77483
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	5/18/2021 5:57:37 PM	D77483
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/18/2021 5:57:37 PM	D77483
Surr: Dibromofluoromethane	125	70-130		%Rec	1	5/18/2021 5:57:37 PM	D77483
Surr: Toluene-d8	104	70-130		%Rec	1	5/18/2021 5:57:37 PM	D77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-10
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:00:00 AM
Lab ID: 2105600-003 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 6:24:38 PM	D77483
Toluene	ND	1.0		µg/L	1	5/18/2021 6:24:38 PM	D77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 6:24:38 PM	D77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 6:24:38 PM	D77483
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	5/18/2021 6:24:38 PM	D77483
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/18/2021 6:24:38 PM	D77483
Surr: Dibromofluoromethane	140	70-130	S	%Rec	1	5/18/2021 6:24:38 PM	D77483
Surr: Toluene-d8	98.4	70-130		%Rec	1	5/18/2021 6:24:38 PM	D77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-34
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 2:17:00 PM
Lab ID: 2105600-004 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 6:51:34 PM	D77483
Toluene	ND	1.0		µg/L	1	5/18/2021 6:51:34 PM	D77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 6:51:34 PM	D77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 6:51:34 PM	D77483
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/18/2021 6:51:34 PM	D77483
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/18/2021 6:51:34 PM	D77483
Surr: Dibromofluoromethane	136	70-130	S	%Rec	1	5/18/2021 6:51:34 PM	D77483
Surr: Toluene-d8	103	70-130		%Rec	1	5/18/2021 6:51:34 PM	D77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-29
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 2:47:00 PM
Lab ID: 2105600-005 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 7:18:30 PM	D77483
Toluene	ND	1.0		µg/L	1	5/18/2021 7:18:30 PM	D77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 7:18:30 PM	D77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 7:18:30 PM	D77483
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/18/2021 7:18:30 PM	D77483
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	5/18/2021 7:18:30 PM	D77483
Surr: Dibromofluoromethane	116	70-130		%Rec	1	5/18/2021 7:18:30 PM	D77483
Surr: Toluene-d8	101	70-130		%Rec	1	5/18/2021 7:18:30 PM	D77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-27
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:17:00 PM
Lab ID: 2105600-006 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	5.0	D P	µg/L	10	5/18/2021 7:45:29 PM	D77483
Toluene	ND	5.0	D P	µg/L	10	5/18/2021 7:45:29 PM	D77483
Ethylbenzene	ND	5.0	D P	µg/L	10	5/18/2021 7:45:29 PM	D77483
Xylenes, Total	ND	7.5	D P	µg/L	10	5/18/2021 7:45:29 PM	D77483
Surr: 1,2-Dichloroethane-d4	100	70-130	D P	%Rec	10	5/18/2021 7:45:29 PM	D77483
Surr: 4-Bromofluorobenzene	140	70-130	SD P	%Rec	10	5/18/2021 7:45:29 PM	D77483
Surr: Dibromofluoromethane	103	70-130	D P	%Rec	10	5/18/2021 7:45:29 PM	D77483
Surr: Toluene-d8	119	70-130	D P	%Rec	10	5/18/2021 7:45:29 PM	D77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-21
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:58:00 PM
Lab ID: 2105600-007 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 8:12:29 PM	D77483
Toluene	ND	1.0		µg/L	1	5/18/2021 8:12:29 PM	D77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 8:12:29 PM	D77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 8:12:29 PM	D77483
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	5/18/2021 8:12:29 PM	D77483
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/18/2021 8:12:29 PM	D77483
Surr: Dibromofluoromethane	148	70-130	S	%Rec	1	5/18/2021 8:12:29 PM	D77483
Surr: Toluene-d8	103	70-130		%Rec	1	5/18/2021 8:12:29 PM	D77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:07:00 AM
Lab ID: 2105600-009 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 4:07:00 AM	60093
Surr: 2-Fluorobiphenyl	63.5	21.1-110		%Rec	1	5/21/2021 4:07:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Toluene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Naphthalene	ND	2.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Acetone	ND	10		µg/L	1	5/18/2021 8:39:32 PM	A77483
Bromobenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Bromodichloromethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Bromoform	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Bromomethane	ND	3.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
2-Butanone	ND	10		µg/L	1	5/18/2021 8:39:32 PM	A77483
Carbon disulfide	ND	10		µg/L	1	5/18/2021 8:39:32 PM	A77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Chlorobenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Chloroethane	ND	2.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Chloroform	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Chloromethane	ND	3.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Dibromochloromethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Dibromomethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,1-Dichloroethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,1-Dichloroethene	1.5	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:07:00 AM
Lab ID: 2105600-009 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
2-Hexanone	ND	10		µg/L	1	5/18/2021 8:39:32 PM	A77483
Isopropylbenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/18/2021 8:39:32 PM	A77483
Methylene Chloride	ND	3.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
n-Butylbenzene	ND	3.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
n-Propylbenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Styrene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Vinyl chloride	ND	1.0		µg/L	1	5/18/2021 8:39:32 PM	A77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 8:39:32 PM	A77483
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	5/18/2021 8:39:32 PM	A77483
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	5/18/2021 8:39:32 PM	A77483
Surr: Dibromofluoromethane	116	70-130		%Rec	1	5/18/2021 8:39:32 PM	A77483
Surr: Toluene-d8	102	70-130		%Rec	1	5/18/2021 8:39:32 PM	A77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Duplicate
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:07:00 AM
Lab ID: 2105600-010 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 4:51:00 AM	60093
Surr: 2-Fluorobiphenyl	70.5	21.1-110		%Rec	1	5/21/2021 4:51:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Toluene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Naphthalene	ND	2.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Acetone	ND	10		µg/L	1	5/18/2021 11:22:02 PM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Bromoform	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Bromomethane	ND	3.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
2-Butanone	ND	10		µg/L	1	5/18/2021 11:22:02 PM	C77483
Carbon disulfide	ND	10		µg/L	1	5/18/2021 11:22:02 PM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Chloroethane	ND	2.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Chloroform	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Chloromethane	ND	3.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,1-Dichloroethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,1-Dichloroethene	2.0	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Duplicate
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:07:00 AM
Lab ID: 2105600-010 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
2-Hexanone	ND	10		µg/L	1	5/18/2021 11:22:02 PM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/18/2021 11:22:02 PM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Styrene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/18/2021 11:22:02 PM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 11:22:02 PM	C77483
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	5/18/2021 11:22:02 PM	C77483
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/18/2021 11:22:02 PM	C77483
Surr: Dibromofluoromethane	134	70-130	S	%Rec	1	5/18/2021 11:22:02 PM	C77483
Surr: Toluene-d8	102	70-130		%Rec	1	5/18/2021 11:22:02 PM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:47:00 AM
Lab ID: 2105600-011 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 5:34:00 AM	60093
Surr: 2-Fluorobiphenyl	71.0	21.1-110		%Rec	1	5/21/2021 5:34:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Toluene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Naphthalene	ND	2.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Acetone	ND	10		µg/L	1	5/18/2021 11:49:07 PM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Bromoform	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Bromomethane	ND	3.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
2-Butanone	ND	10		µg/L	1	5/18/2021 11:49:07 PM	C77483
Carbon disulfide	ND	10		µg/L	1	5/18/2021 11:49:07 PM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Chloroethane	ND	2.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Chloroform	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Chloromethane	ND	3.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,1-Dichloroethane	5.0	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,1-Dichloroethene	2.4	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:47:00 AM
Lab ID: 2105600-011 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
2-Hexanone	ND	10		µg/L	1	5/18/2021 11:49:07 PM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/18/2021 11:49:07 PM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Styrene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/18/2021 11:49:07 PM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/18/2021 11:49:07 PM	C77483
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/18/2021 11:49:07 PM	C77483
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/18/2021 11:49:07 PM	C77483
Surr: Dibromofluoromethane	111	70-130		%Rec	1	5/18/2021 11:49:07 PM	C77483
Surr: Toluene-d8	96.8	70-130		%Rec	1	5/18/2021 11:49:07 PM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 11:10:00 AM
Lab ID: 2105600-012
Matrix: AQUEOUS
Received Date: 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 6:19:00 AM	60093
Surr: 2-Fluorobiphenyl	55.5	21.1-110		%Rec	1	5/21/2021 6:19:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Toluene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Naphthalene	ND	2.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Acetone	ND	10		µg/L	1	5/19/2021 12:16:11 AM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Bromoform	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Bromomethane	ND	3.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
2-Butanone	ND	10		µg/L	1	5/19/2021 12:16:11 AM	C77483
Carbon disulfide	ND	10		µg/L	1	5/19/2021 12:16:11 AM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Chloroethane	ND	2.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Chloroform	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Chloromethane	ND	3.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,1-Dichloroethane	9.3	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,1-Dichloroethene	42	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 11:10:00 AM
Lab ID: 2105600-012
Matrix: AQUEOUS
Received Date: 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
2-Hexanone	ND	10		µg/L	1	5/19/2021 12:16:11 AM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 12:16:11 AM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Styrene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 12:16:11 AM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 12:16:11 AM	C77483
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	5/19/2021 12:16:11 AM	C77483
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	5/19/2021 12:16:11 AM	C77483
Surr: Dibromofluoromethane	125	70-130		%Rec	1	5/19/2021 12:16:11 AM	C77483
Surr: Toluene-d8	99.9	70-130		%Rec	1	5/19/2021 12:16:11 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 11:50:00 AM
Lab ID: 2105600-013 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 7:05:00 AM	60093
Surr: 2-Fluorobiphenyl	62.0	21.1-110		%Rec	1	5/21/2021 7:05:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Toluene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Naphthalene	ND	2.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Acetone	ND	10		µg/L	1	5/19/2021 12:43:13 AM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Bromoform	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Bromomethane	ND	3.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
2-Butanone	ND	10		µg/L	1	5/19/2021 12:43:13 AM	C77483
Carbon disulfide	ND	10		µg/L	1	5/19/2021 12:43:13 AM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Chloroethane	ND	2.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Chloroform	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Chloromethane	ND	3.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,1-Dichloroethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,1-Dichloroethene	2.2	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 11:50:00 AM
Lab ID: 2105600-013 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
2-Hexanone	ND	10		µg/L	1	5/19/2021 12:43:13 AM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 12:43:13 AM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Styrene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 12:43:13 AM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 12:43:13 AM	C77483
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	5/19/2021 12:43:13 AM	C77483
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/19/2021 12:43:13 AM	C77483
Surr: Dibromofluoromethane	125	70-130		%Rec	1	5/19/2021 12:43:13 AM	C77483
Surr: Toluene-d8	100	70-130		%Rec	1	5/19/2021 12:43:13 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 2:53:00 PM
Lab ID: 2105600-014 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 7:49:00 AM	60093
Surr: 2-Fluorobiphenyl	65.5	21.1-110		%Rec	1	5/21/2021 7:49:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Toluene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Naphthalene	ND	2.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Acetone	ND	10		µg/L	1	5/19/2021 1:10:12 AM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Bromoform	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Bromomethane	ND	3.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
2-Butanone	ND	10		µg/L	1	5/19/2021 1:10:12 AM	C77483
Carbon disulfide	ND	10		µg/L	1	5/19/2021 1:10:12 AM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Chloroethane	ND	2.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Chloroform	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Chloromethane	ND	3.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,1-Dichloroethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,1-Dichloroethene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 2:53:00 PM
Lab ID: 2105600-014 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
2-Hexanone	ND	10		µg/L	1	5/19/2021 1:10:12 AM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 1:10:12 AM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Styrene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 1:10:12 AM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 1:10:12 AM	C77483
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	5/19/2021 1:10:12 AM	C77483
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	5/19/2021 1:10:12 AM	C77483
Surr: Dibromofluoromethane	117	70-130		%Rec	1	5/19/2021 1:10:12 AM	C77483
Surr: Toluene-d8	103	70-130		%Rec	1	5/19/2021 1:10:12 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:21:00 PM
Lab ID: 2105600-015 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 8:33:00 AM	60093
Surr: 2-Fluorobiphenyl	63.0	21.1-110		%Rec	1	5/21/2021 8:33:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Toluene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Naphthalene	ND	2.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Acetone	ND	10		µg/L	1	5/19/2021 1:37:08 AM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Bromoform	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Bromomethane	ND	3.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
2-Butanone	ND	10		µg/L	1	5/19/2021 1:37:08 AM	C77483
Carbon disulfide	ND	10		µg/L	1	5/19/2021 1:37:08 AM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Chloroethane	ND	2.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Chloroform	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Chloromethane	ND	3.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,1-Dichloroethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,1-Dichloroethene	1.2	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:21:00 PM
Lab ID: 2105600-015 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
2-Hexanone	ND	10		µg/L	1	5/19/2021 1:37:08 AM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 1:37:08 AM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Styrene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 1:37:08 AM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 1:37:08 AM	C77483
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/19/2021 1:37:08 AM	C77483
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	5/19/2021 1:37:08 AM	C77483
Surr: Dibromofluoromethane	124	70-130		%Rec	1	5/19/2021 1:37:08 AM	C77483
Surr: Toluene-d8	103	70-130		%Rec	1	5/19/2021 1:37:08 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:45:00 PM
Lab ID: 2105600-016 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 9:18:00 AM	60093
Surr: 2-Fluorobiphenyl	66.5	21.1-110		%Rec	1	5/21/2021 9:18:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Toluene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Naphthalene	ND	2.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Acetone	ND	10		µg/L	1	5/19/2021 2:04:12 AM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Bromoform	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Bromomethane	ND	3.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
2-Butanone	ND	10		µg/L	1	5/19/2021 2:04:12 AM	C77483
Carbon disulfide	ND	10		µg/L	1	5/19/2021 2:04:12 AM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Chloroethane	ND	2.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Chloroform	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Chloromethane	ND	3.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,1-Dichloroethane	3.6	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,1-Dichloroethene	24	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:45:00 PM
Lab ID: 2105600-016 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
2-Hexanone	ND	10		µg/L	1	5/19/2021 2:04:12 AM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 2:04:12 AM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Styrene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 2:04:12 AM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 2:04:12 AM	C77483
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/19/2021 2:04:12 AM	C77483
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/19/2021 2:04:12 AM	C77483
Surr: Dibromofluoromethane	116	70-130		%Rec	1	5/19/2021 2:04:12 AM	C77483
Surr: Toluene-d8	101	70-130		%Rec	1	5/19/2021 2:04:12 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39 Duplicate
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:45:00 PM
Lab ID: 2105600-017 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	1.0		µg/L	1	5/21/2021 10:03:00 AM	60093
Surr: 2-Fluorobiphenyl	67.0	21.1-110		%Rec	1	5/21/2021 10:03:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Toluene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Naphthalene	ND	2.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Acetone	ND	10		µg/L	1	5/19/2021 2:31:15 AM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Bromoform	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Bromomethane	ND	3.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
2-Butanone	ND	10		µg/L	1	5/19/2021 2:31:15 AM	C77483
Carbon disulfide	ND	10		µg/L	1	5/19/2021 2:31:15 AM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Chloroethane	ND	2.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Chloroform	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Chloromethane	ND	3.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,1-Dichloroethane	3.5	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,1-Dichloroethene	23	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39 Duplicate
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 3:45:00 PM
Lab ID: 2105600-017 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
2-Hexanone	ND	10		µg/L	1	5/19/2021 2:31:15 AM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 2:31:15 AM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Styrene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 2:31:15 AM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 2:31:15 AM	C77483
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	5/19/2021 2:31:15 AM	C77483
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	5/19/2021 2:31:15 AM	C77483
Surr: Dibromofluoromethane	116	70-130		%Rec	1	5/19/2021 2:31:15 AM	C77483
Surr: Toluene-d8	105	70-130		%Rec	1	5/19/2021 2:31:15 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 11:20:00 AM
Lab ID: 2105600-018 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	10		µg/L	10	5/21/2021 10:47:00 AM	60093
Surr: 2-Fluorobiphenyl	65.0	21.1-110		%Rec	10	5/21/2021 10:47:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Toluene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Naphthalene	ND	2.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Acetone	14	10		µg/L	1	5/19/2021 12:53:56 PM	A77523
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Bromoform	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Bromomethane	ND	3.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
2-Butanone	ND	10		µg/L	1	5/19/2021 12:53:56 PM	A77523
Carbon disulfide	ND	10		µg/L	1	5/19/2021 12:53:56 PM	A77523
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Chloroethane	ND	2.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Chloroform	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Chloromethane	ND	3.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,1-Dichloroethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,1-Dichloroethene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-28
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 11:20:00 AM
Lab ID: 2105600-018 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
2-Hexanone	ND	10		µg/L	1	5/19/2021 12:53:56 PM	A77523
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 12:53:56 PM	A77523
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Styrene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 12:53:56 PM	A77523
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 12:53:56 PM	A77523
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	5/19/2021 12:53:56 PM	A77523
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/19/2021 12:53:56 PM	A77523
Surr: Dibromofluoromethane	129	70-130		%Rec	1	5/19/2021 12:53:56 PM	A77523
Surr: Toluene-d8	101	70-130		%Rec	1	5/19/2021 12:53:56 PM	A77523

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:50:00 AM
Lab ID: 2105600-019 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	10		µg/L	10	5/21/2021 11:31:00 AM	60093
Surr: 2-Fluorobiphenyl	45.0	21.1-110		%Rec	10	5/21/2021 11:31:00 AM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	6.4	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Toluene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Ethylbenzene	3.5	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Naphthalene	ND	2.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Acetone	ND	10		µg/L	1	5/19/2021 1:21:03 PM	A77523
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Bromoform	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Bromomethane	ND	3.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
2-Butanone	ND	10		µg/L	1	5/19/2021 1:21:03 PM	A77523
Carbon disulfide	ND	10		µg/L	1	5/19/2021 1:21:03 PM	A77523
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Chloroethane	3.3	2.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Chloroform	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Chloromethane	ND	3.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,1-Dichloroethane	37	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,1-Dichloroethene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: SVE-30
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 10:50:00 AM
Lab ID: 2105600-019 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
2-Hexanone	ND	10		µg/L	1	5/19/2021 1:21:03 PM	A77523
Isopropylbenzene	2.4	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 1:21:03 PM	A77523
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
n-Propylbenzene	1.8	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
sec-Butylbenzene	1.8	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Styrene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2,4-Trichlorobenzene	3.2	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,1,1-Trichloroethane	2.4	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 1:21:03 PM	A77523
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 1:21:03 PM	A77523
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	5/19/2021 1:21:03 PM	A77523
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	5/19/2021 1:21:03 PM	A77523
Surr: Dibromofluoromethane	108	70-130		%Rec	1	5/19/2021 1:21:03 PM	A77523
Surr: Toluene-d8	102	70-130		%Rec	1	5/19/2021 1:21:03 PM	A77523

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 1:15:00 PM
Lab ID: 2105600-020 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **TOM**	
1,4-Dioxane	ND	50		µg/L	50	5/21/2021 12:15:00 PM	60093
Surr: 2-Fluorobiphenyl	75.0	21.1-110		%Rec	50	5/21/2021 12:15:00 PM	60093
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	46	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Toluene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Ethylbenzene	10	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Methyl tert-butyl ether (MTBE)	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2,4-Trimethylbenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,3,5-Trimethylbenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2-Dichloroethane (EDC)	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2-Dibromoethane (EDB)	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Naphthalene	ND	10	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1-Methylnaphthalene	ND	20	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
2-Methylnaphthalene	ND	20	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Acetone	ND	50	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Bromobenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Bromodichloromethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Bromoform	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Bromomethane	ND	15	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
2-Butanone	ND	50	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Carbon disulfide	ND	50	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Carbon Tetrachloride	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Chlorobenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Chloroethane	ND	10	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Chloroform	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Chloromethane	ND	15	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
2-Chlorotoluene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
4-Chlorotoluene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
cis-1,2-DCE	6.0	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
cis-1,3-Dichloropropene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2-Dibromo-3-chloropropane	ND	10	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Dibromochloromethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Dibromomethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2-Dichlorobenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,3-Dichlorobenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,4-Dichlorobenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Dichlorodifluoromethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,1-Dichloroethane	5.6	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,1-Dichloroethene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: RW-1
Project: TWP Roswell Station 9
Collection Date: 5/11/2021 1:15:00 PM
Lab ID: 2105600-020 **Matrix:** AQUEOUS **Received Date:** 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,2-Dichloropropane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,3-Dichloropropane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
2,2-Dichloropropane	ND	10	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,1-Dichloropropene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Hexachlorobutadiene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
2-Hexanone	ND	50	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Isopropylbenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
4-Isopropyltoluene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
4-Methyl-2-pentanone	ND	50	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Methylene Chloride	ND	15	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
n-Butylbenzene	ND	15	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
n-Propylbenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
sec-Butylbenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Styrene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
tert-Butylbenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,1,1,2-Tetrachloroethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,1,2,2-Tetrachloroethane	ND	10	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Tetrachloroethene (PCE)	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
trans-1,2-DCE	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
trans-1,3-Dichloropropene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2,3-Trichlorobenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2,4-Trichlorobenzene	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,1,1-Trichloroethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,1,2-Trichloroethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Trichloroethene (TCE)	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Trichlorofluoromethane	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
1,2,3-Trichloropropane	ND	10	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Vinyl chloride	ND	5.0	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Xylenes, Total	ND	7.5	D	µg/L	5	5/19/2021 1:48:13 PM	A77523
Surr: 1,2-Dichloroethane-d4	98.7	70-130	D	%Rec	5	5/19/2021 1:48:13 PM	A77523
Surr: 4-Bromofluorobenzene	103	70-130	D	%Rec	5	5/19/2021 1:48:13 PM	A77523
Surr: Dibromofluoromethane	97.9	70-130	D	%Rec	5	5/19/2021 1:48:13 PM	A77523
Surr: Toluene-d8	102	70-130	D	%Rec	5	5/19/2021 1:48:13 PM	A77523

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9
Collection Date:
Lab ID: 2105600-021
Matrix: TRIP BLANK
Received Date: 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Toluene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Naphthalene	ND	2.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
2-Methylnaphthalene	ND	4.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Acetone	ND	10		µg/L	1	5/19/2021 4:19:25 AM	C77483
Bromobenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Bromodichloromethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Bromoform	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Bromomethane	ND	3.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
2-Butanone	ND	10		µg/L	1	5/19/2021 4:19:25 AM	C77483
Carbon disulfide	ND	10		µg/L	1	5/19/2021 4:19:25 AM	C77483
Carbon Tetrachloride	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Chlorobenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Chloroethane	ND	2.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Chloroform	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Chloromethane	ND	3.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
2-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
4-Chlorotoluene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
cis-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Dibromochloromethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Dibromomethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,1-Dichloroethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,1-Dichloroethene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,3-Dichloropropane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
2,2-Dichloropropane	ND	2.0		µg/L	1	5/19/2021 4:19:25 AM	C77483

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 **2105600**
Date Reported: **6/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9
Collection Date:
Lab ID: 2105600-021
Matrix: TRIP BLANK
Received Date: 5/13/2021 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Hexachlorobutadiene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
2-Hexanone	ND	10		µg/L	1	5/19/2021 4:19:25 AM	C77483
Isopropylbenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
4-Isopropyltoluene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
4-Methyl-2-pentanone	ND	10		µg/L	1	5/19/2021 4:19:25 AM	C77483
Methylene Chloride	ND	3.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
n-Butylbenzene	ND	3.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
n-Propylbenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
sec-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Styrene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
tert-Butylbenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
trans-1,2-DCE	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Trichlorofluoromethane	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Vinyl chloride	ND	1.0		µg/L	1	5/19/2021 4:19:25 AM	C77483
Xylenes, Total	ND	1.5		µg/L	1	5/19/2021 4:19:25 AM	C77483
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/19/2021 4:19:25 AM	C77483
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/19/2021 4:19:25 AM	C77483
Surr: Dibromofluoromethane	120	70-130		%Rec	1	5/19/2021 4:19:25 AM	C77483
Surr: Toluene-d8	97.8	70-130		%Rec	1	5/19/2021 4:19:25 AM	C77483

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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **D77483**	RunNo: **77483**
Prep Date:	Analysis Date: **5/18/2021**	SeqNo: **2750428** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	19	1.0	20.00	0	95.6	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **D77483**	RunNo: **77483**
Prep Date:	Analysis Date: **5/18/2021**	SeqNo: **2750436** 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	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		101	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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **C77483** RunNo: **77483**
Prep Date: Analysis Date: **5/18/2021** SeqNo: **2750149** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	19	1.0	20.00	0	95.6	70	130			
Chlorobenzene	19	1.0	20.00	0	94.1	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	99.4	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Sample ID: **100ng lcs4** SampType: **LCS4** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC** Batch ID: **A77483** RunNo: **77483**
Prep Date: Analysis Date: **5/18/2021** SeqNo: **2750150** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Ethylbenzene	20	1.0	20.00	0	98.7	70	130			
Methyl tert-butyl ether (MTBE)	39	1.0	40.00	0	97.4	70	130			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	94.1	70	130			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	93.8	70	130			
1,2-Dichloroethane (EDC)	21	1.0	20.00	0	104	70	130			
1,2-Dibromoethane (EDB)	19	1.0	20.00	0	95.3	70	130			
Naphthalene	17	2.0	20.00	0	85.6	70	130			
1-Methylnaphthalene	20	4.0	20.00	0	100	70	130			
2-Methylnaphthalene	20	4.0	20.00	0	100	70	130			
Acetone	38	10	40.00	0	94.5	55.4	145			
Bromobenzene	19	1.0	20.00	0	95.0	70	130			
Bromodichloromethane	18	1.0	20.00	0	88.7	70	130			
Bromoform	17	1.0	20.00	0	82.7	70	130			
Bromomethane	20	3.0	20.00	0	102	33.5	169			
2-Butanone	43	10	40.00	0	108	58.8	140			
Carbon disulfide	42	10	40.00	0	105	70	130			
Carbon Tetrachloride	20	1.0	20.00	0	98.9	70	130			
Chlorobenzene	19	1.0	20.00	0	93.0	70	130			
Chloroethane	22	2.0	20.00	0	112	51.4	145			
Chloroform	19	1.0	20.00	0	96.5	70	130			
Chloromethane	21	3.0	20.00	0	103	37.9	148			
2-Chlorotoluene	19	1.0	20.00	0	96.3	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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng lcs4** SampType: **LCS4** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC** Batch ID: **A77483** RunNo: **77483**
Prep Date: Analysis Date: **5/18/2021** SeqNo: **2750150** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	18	1.0	20.00	0	91.8	70	130			
cis-1,2-DCE	18	1.0	20.00	0	88.0	70	130			
cis-1,3-Dichloropropene	18	1.0	20.00	0	92.5	70	130			
1,2-Dibromo-3-chloropropane	19	2.0	20.00	0	96.2	70	130			
Dibromochloromethane	19	1.0	20.00	0	92.6	70	130			
Dibromomethane	19	1.0	20.00	0	95.8	70	130			
1,2-Dichlorobenzene	19	1.0	20.00	0	95.0	70	130			
1,3-Dichlorobenzene	19	1.0	20.00	0	94.0	70	130			
1,4-Dichlorobenzene	18	1.0	20.00	0	89.5	70	130			
Dichlorodifluoromethane	22	1.0	20.00	0	108	40.4	152			
1,1-Dichloroethane	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.6	70	130			
1,2-Dichloropropane	21	1.0	20.00	0	103	69.3	130			
1,3-Dichloropropane	20	1.0	20.00	0	99.0	70	130			
2,2-Dichloropropane	20	2.0	20.00	0	100	70	130			
1,1-Dichloropropene	21	1.0	20.00	0	103	70	130			
Hexachlorobutadiene	16	1.0	20.00	0	77.7	70	130			
2-Hexanone	38	10	40.00	0	94.9	70	130			
Isopropylbenzene	20	1.0	20.00	0	99.4	70	130			
4-Isopropyltoluene	19	1.0	20.00	0	97.3	70	130			
4-Methyl-2-pentanone	45	10	40.00	0	113	70	130			
Methylene Chloride	21	3.0	20.00	0	107	70	130			
n-Butylbenzene	19	3.0	20.00	0	96.3	70	130			
n-Propylbenzene	19	1.0	20.00	0	94.7	70	130			
sec-Butylbenzene	17	1.0	20.00	0	87.1	70	130			
Styrene	20	1.0	20.00	0	100	70	130			
tert-Butylbenzene	19	1.0	20.00	0	94.0	70	130			
1,1,1,2-Tetrachloroethane	20	1.0	20.00	0	101	70	130			
1,1,2,2-Tetrachloroethane	19	2.0	20.00	0	95.0	70	130			
Tetrachloroethene (PCE)	20	1.0	20.00	0	99.5	70	130			
trans-1,2-DCE	20	1.0	20.00	0	101	70	130			
trans-1,3-Dichloropropene	19	1.0	20.00	0	94.5	70	130			
1,2,3-Trichlorobenzene	18	1.0	20.00	0	91.8	70	130			
1,2,4-Trichlorobenzene	19	1.0	20.00	0	93.5	70	130			
1,1,1-Trichloroethane	20	1.0	20.00	0	98.4	70	130			
1,1,2-Trichloroethane	19	1.0	20.00	0	95.5	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.5	70	130			
Trichlorofluoromethane	20	1.0	20.00	0	100	70	130			
1,2,3-Trichloropropane	19	2.0	20.00	0	93.1	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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng lcs4** SampType: **LCS4** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC** Batch ID: **A77483** RunNo: **77483**
Prep Date: Analysis Date: **5/18/2021** SeqNo: **2750150** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	22	1.0	20.00	0	108	57.9	134			
Xylenes, Total	58	1.5	60.00	0	95.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	8.8		10.00		87.9	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		97.7	70	130			

Sample ID: **2105600-017a ms** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-39 Duplicate** Batch ID: **C77483** RunNo: **77483**
Prep Date: Analysis Date: **5/19/2021** SeqNo: **2750169** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	19	1.0	20.00	0	97.0	70	130			
Chlorobenzene	18	1.0	20.00	0	91.5	70	130			
1,1-Dichloroethene	41	1.0	20.00	23.12	88.5	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.9	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	12		10.00		118	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **2105600-017a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-39 Duplicate** Batch ID: **C77483** RunNo: **77483**
Prep Date: Analysis Date: **5/19/2021** SeqNo: **2750170** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.7	70	130	3.18	20	
Toluene	18	1.0	20.00	0	88.8	70	130	8.82	20	
Chlorobenzene	17	1.0	20.00	0	84.1	70	130	8.42	20	
1,1-Dichloroethene	38	1.0	20.00	23.12	75.0	70	130	6.81	20	
Trichloroethene (TCE)	18	1.0	20.00	0	92.0	70	130	4.16	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.5	70	130	0	0	
Surr: Dibromofluoromethane	12		10.00		117	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		97.5	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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A77483**	RunNo: **77483**
Prep Date:	Analysis Date: **5/18/2021**	SeqNo: **2750176** 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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A77483**	RunNo: **77483**
Prep Date:	Analysis Date: **5/18/2021**	SeqNo: **2750176** 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		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **C77483**	RunNo: **77483**
Prep Date:	Analysis Date: **5/18/2021**	SeqNo: **2750177** 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								

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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **C77483**	RunNo: **77483**
Prep Date:	Analysis Date: **5/18/2021**	SeqNo: **2750177** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								

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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **C77483**	RunNo: **77483**
Prep Date:	Analysis Date: **5/18/2021**	SeqNo: **2750177** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		107	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: **A77523**	RunNo: **77523**
Prep Date:	Analysis Date: **5/19/2021**	SeqNo: **2751468** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	19	1.0	20.00	0	97.0	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	99.4	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		105	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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **A77523**	RunNo: **77523**
Prep Date:	Analysis Date: **5/19/2021**	SeqNo: **2751468** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.9		10.00		99.4	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A77523**	RunNo: **77523**
Prep Date:	Analysis Date: **5/19/2021**	SeqNo: **2751496** 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								

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#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A77523**	RunNo: **77523**
Prep Date:	Analysis Date: **5/19/2021**	SeqNo: **2751496** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		103	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2105600**
02-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb-60093** SampType: **MBLK** TestCode: **EPA Method 8270SIM**
Client ID: **PBW** Batch ID: **60093** RunNo: **77625**
Prep Date: **5/18/2021** Analysis Date: **5/20/2021** SeqNo: **2755477** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	1.0								
Surr: Nitrobenzene-d5	3.3		4.000		82.5	26.3	112			
Surr: 2,4,6-Tribromophenol	4.3		8.000		53.8	27.7	118			
Surr: 2-Fluorobiphenyl	2.7		4.000		68.5	21.1	110			
Surr: 4-Terphenyl-d14	5.2		4.000		129	17.6	167			

Sample ID: **lcs-60093** SampType: **LCS** TestCode: **EPA Method 8270SIM**
Client ID: **LCSW** Batch ID: **60093** RunNo: **77625**
Prep Date: **5/18/2021** Analysis Date: **5/20/2021** SeqNo: **2755478** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	1.2	1.0	2.000	0	58.0	15	79.8			
Surr: Nitrobenzene-d5	5.4		5.000		108	26.3	112			
Surr: 2,4,6-Tribromophenol	6.9		10.00		68.8	27.7	118			
Surr: 2-Fluorobiphenyl	4.1		5.000		82.8	21.1	110			
Surr: 4-Terphenyl-d14	8.2		5.000		163	17.6	167			

Sample ID: **lcsd-60093** SampType: **LCSD** TestCode: **EPA Method 8270SIM**
Client ID: **LCSS02** Batch ID: **60093** RunNo: **77625**
Prep Date: **5/18/2021** Analysis Date: **5/21/2021** SeqNo: **2755479** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	1.0	2.000	0	47.0	15	79.8	200	34.2	
Surr: Nitrobenzene-d5	4.5		5.000		90.4	26.3	112	0	0	
Surr: 2,4,6-Tribromophenol	6.0		10.00		60.0	27.7	118	0	0	
Surr: 2-Fluorobiphenyl	3.1		5.000		61.6	21.1	110	0	0	
Surr: 4-Terphenyl-d14	7.6		5.000		151	17.6	167	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2105600** RcptNo: **1**

Received By: **Sean Livingston** **5/13/2021 9:35:00 AM** Sean Livingston

Completed By: **Sean Livingston** **5/13/2021 11:47:52 AM** Sean Livingston

Reviewed By: ENM 5/17/21

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. 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:

Special Handling (if applicable)

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

Person Notified: Clayton B. Date: 5/17/21

By Whom: Erin Melendrez Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding: MW-17 samples not present

Client Instructions: Client has samples, will ship ASAP.

-ENM 5/17/21

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good				
2	2.4	Good				

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc.
ATTN: Sofie Weber Snapp
Mailing Address: 180 West Oak Parkway, Suite 116 Marietta, GA 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@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 9
Project #: 02.2012.005700 GW Monitoring 2021
Project Manager: Sofie Weber Snapp
Sampler: CM Barnhill, PA
On Ice: ☑ Yes ☐ No
# of Coolers: 2
Cooler Temp(including CF): 4.2-0=4.2 (°C) 2.4-0=2.4

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. 2105600	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	8270 SIM Dioxane 1-4				
05/11/21	0935	H2O	MW-11	3x40mL VOAs	HCl	001											X	X				
05/11/21	0935	H2O	MW-11 Duplicate	3x40mL VOAs	HCl	002											X	X				
05/11/21	10:00	H2O	MW-10	3x40mL VOAs	HCl	003											X	X				
05/11/21	14:17	H2O	MW-34	3x40mL VOAs	HCl	004											X	X				
05/11/21	14:47	H2O	MW-29	3x40mL VOAs	HCl	005											X	X				
05/11/21	15:17	H2O	MW-27	3x40mL VOAs	HCl	006											X	X				
05/11/21	1558	H2O	MW-21	3x40mL VOAs	HCl	007											X	X				
*05/11/21	1617	H2O	MW-17	3x40mL VOAs	HCl	008											X	X				
05/11/21	10:07	H2O	MW-22	3x40mL 1x1Liter	HCl/None	009								X				X				
05/11/21	10:07	H2O	MW-22 Duplicate	3x40mL 1x1Liter	HCl/None	010								X				X				
05/11/21	10:47	H2O	MW-20	3x40mL 1x1Liter	HCl/None	011								X				X				
05/11/21	11:10	H2O	MW-26	3x40mL 1x1Liter	HCl/None	012								X				X				

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
05/12/21	11:00		Sue	UPS	5/12/21	9:35
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Any Questions? Please Call CMB @ 575.626.1615
ENM 5/19/21; Sample submitted on Seperate COC - ENM 5/19/21

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 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: Earth Con Consultants, Inc.
ATTN: Sofie Weber Snapp
Mailing Address: 880 West Oak Parkway, Suite 106, Marrietta, GA 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@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 Rosmell Station 9
Project #: 02.2012.003700 GW Monitoring 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PT
On Ice: ☒ Yes ☐ No
# of Coolers: 2
Cooler Temp(including CF): 4.2±0=4.2 (°C) 2.4±0=2.4

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)	8270 (c) SIM 1-4 Dioxane
05/11/21	11:50	H_2O	MW-42	3x40mL 1x1Liter	HCl/None	013								X			X
05/11/21	1453	H_2O	MW-40	3x40mL 1x1Liter	HCl/None	014								X			X
05/11/21	1521	H_2O	MW-41	3x40mL 1x1Liter	HCl/None	015								X			X
05/11/21	1545	H_2O	MW-39	3x40mL 1x1Liter	HCl/None	016								X			X
05/11/21	1545	H_2O	MW-39 Duplicate	3x40mL 1x1Liter	HCl/None	017								X			X
05/11/21	11:20	H_2O	SVE-28	3x40mL 1x1Liter	HCl/None	018								X			X
05/11/21	1050	H_2O	SVE-30	3x40mL 1x1Liter	HCl/None	019								X			X
05/11/21	1315	H_2O	RW-1	3x40mL 1x1Liter	HCl/None	020								X			X
			Trip Blank	2x40mL VOAs	HCl	021								X			
5/12/21	1110		Field Blank			022								X			
				ENM 5/19/21	ENM	5/19/21											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
05/12/21	11:00		SGL	UPS	5/13/21	9:35
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Any Questions Please Call CMB @ 575.626.1615
Field Blank and HW17 received 5/18/21 @10:15; Temp: 5.4-0.7(CF)=5.7 19 ENM 5/19/21
ENM 5/19/21

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: clients.hallenvironmental.com

May 24, 2021

Sofie Weber-Snapp
Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2105827

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/19/2021 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 **2105827**
Date Reported: **5/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-17
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 5/11/2021 4:17:00 PM
Lab ID: 2105827-001 **Matrix:** AQUEOUS **Received Date:** 5/19/2021 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 4:57:00 PM	R77497
Toluene	ND	1.0		µg/L	1	5/19/2021 4:57:00 PM	R77497
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 4:57:00 PM	R77497
Xylenes, Total	ND	2.0		µg/L	1	5/19/2021 4:57:00 PM	R77497
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	5/19/2021 4:57:00 PM	R77497

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 **2105827**
Date Reported: **5/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Field Blank
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 5/18/2021 11:10:00 AM
Lab ID: 2105827-002 **Matrix:** AQUEOUS **Received Date:** 5/19/2021 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	5/19/2021 5:16:00 PM	R77497
Toluene	ND	1.0		µg/L	1	5/19/2021 5:16:00 PM	R77497
Ethylbenzene	ND	1.0		µg/L	1	5/19/2021 5:16:00 PM	R77497
Xylenes, Total	ND	2.0		µg/L	1	5/19/2021 5:16:00 PM	R77497
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	5/19/2021 5:16:00 PM	R77497

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#: **2105827**
24-May-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **2105827-001ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-17** Batch ID: **R77497** RunNo: **77497**
Prep Date: Analysis Date: **5/19/2021** SeqNo: **2751579** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	18	2.5	20.00	0	89.8	60.4	152			
Benzene	19	1.0	20.00	0	93.4	80	120			
Toluene	19	1.0	20.00	0	93.2	80	120			
Ethylbenzene	19	1.0	20.00	0	95.8	80	120			
Xylenes, Total	56	2.0	60.00	0	94.1	80	120			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	94.0	80	120			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	17		20.00		84.4	70	130			

Sample ID: **2105827-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-17** Batch ID: **R77497** RunNo: **77497**
Prep Date: Analysis Date: **5/19/2021** SeqNo: **2751580** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	18	2.5	20.00	0	87.7	60.4	152	2.36	20	
Benzene	17	1.0	20.00	0	85.9	80	120	8.31	20	
Toluene	17	1.0	20.00	0	85.8	80	120	8.30	20	
Ethylbenzene	18	1.0	20.00	0	88.3	80	120	8.09	20	
Xylenes, Total	53	2.0	60.00	0	87.5	80	120	7.18	20	
1,2,4-Trimethylbenzene	18	1.0	20.00	0	90.8	80	120	3.49	20	
1,3,5-Trimethylbenzene	18	1.0	20.00	0	91.6	80	120	2.98	20	
Surr: 4-Bromofluorobenzene	16		20.00		81.2	70	130	0	0	

Sample ID: **100ng BTEX lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW** Batch ID: **R77497** RunNo: **77497**
Prep Date: Analysis Date: **5/19/2021** SeqNo: **2751599** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	18	2.5	20.00	0	90.3	59.5	133			
Benzene	19	1.0	20.00	0	92.8	80	120			
Toluene	19	1.0	20.00	0	92.9	80	120			
Ethylbenzene	19	1.0	20.00	0	96.0	80	120			
Xylenes, Total	57	2.0	60.00	0	94.6	80	120			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	96.0	80	120			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		91.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
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#: **2105827**
24-May-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**	
Client ID: **PBW**	Batch ID: **R77497**	RunNo: **77497**	
Prep Date:	Analysis Date: **5/19/2021**	SeqNo: **2751638**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	17		20.00		86.5	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2105827** RcptNo: **1**

Received By: **Sean Livingston** **5/19/2021 10:15:00 AM** Sean Livingston

Completed By: **Sean Livingston** **5/19/2021 11:15:30 AM** Sean Livingston

Reviewed By: JR 5/19/21

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. 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: CM 5/19/21

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	5.2	Good				

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: Earthcon Consultants Inc.
ATTN: Sofic Weber Snapp
Mailing Address: 1880 West Oak Parkway Suite 108
Marietta, GA 30062
Phone #: 770.973.2107
email or Fax#: SWeberSnapp@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 #: 02.2012.005700 GW Monitoring 2021
Project Manager: Sophie Webber-Snapp
Sampler: CM Barnhill, PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): ~~5.2~~ 5.4-0.2=5.2 SCM 5/19/21 (°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. 2105827	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
05/11/21	1617	H2O	MW-17	3x40mL Vials	HCL	001											X
05/18/21	11:10	H2O	Field Blank	3x40mL Vials	HCL	002											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
05/18/21	11:15		SCM	UPS	5/19/21	10:15
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Any Questions? Please Call CMBC 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: clients.hallenvironmental.com

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2112155

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 11 sample(s) on 12/2/2021 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 **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 2:40:00 PM
Lab ID: 2112155-001 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **DAM**	
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 12:25:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 12:25:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 12:25:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 12:25:00 AM	64290
Surr: 2-Fluorobiphenyl	64.0	15-84.5	H	%Rec	1	12/28/2021 12:25:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Toluene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Naphthalene	ND	2.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Acetone	ND	10		µg/L	1	12/2/2021 9:16:00 PM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Bromoform	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Bromomethane	ND	3.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
2-Butanone	ND	10		µg/L	1	12/2/2021 9:16:00 PM	R83260
Carbon disulfide	ND	10		µg/L	1	12/2/2021 9:16:00 PM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Chloroethane	ND	2.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Chloroform	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Chloromethane	ND	3.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 2:40:00 PM
Lab ID: 2112155-001 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,1-Dichloroethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,1-Dichloroethene	2.0	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
2-Hexanone	ND	10		µg/L	1	12/2/2021 9:16:00 PM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/2/2021 9:16:00 PM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Styrene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/2/2021 9:16:00 PM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/2/2021 9:16:00 PM	R83260
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	12/2/2021 9:16:00 PM	R83260
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/2/2021 9:16:00 PM	R83260
Surr: Dibromofluoromethane	104	70-130		%Rec	1	12/2/2021 9:16:00 PM	R83260
Surr: Toluene-d8	99.2	70-130		%Rec	1	12/2/2021 9:16:00 PM	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 2:40:00 PM
Lab ID: 2112155-002 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **DAM**	
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 1:09:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 1:09:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 1:09:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 1:09:00 AM	64290
Surr: 2-Fluorobiphenyl	70.0	15-84.5	H	%Rec	1	12/28/2021 1:09:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Toluene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Naphthalene	ND	2.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Acetone	ND	10		µg/L	1	12/2/2021 10:26:00 PM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Bromoform	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Bromomethane	ND	3.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
2-Butanone	ND	10		µg/L	1	12/2/2021 10:26:00 PM	R83260
Carbon disulfide	ND	10		µg/L	1	12/2/2021 10:26:00 PM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Chloroethane	ND	2.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Chloroform	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Chloromethane	ND	3.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-22 Duplicate
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 2:40:00 PM
Lab ID: 2112155-002 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,1-Dichloroethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,1-Dichloroethene	1.8	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
2-Hexanone	ND	10		µg/L	1	12/2/2021 10:26:00 PM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/2/2021 10:26:00 PM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Styrene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/2/2021 10:26:00 PM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/2/2021 10:26:00 PM	R83260
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	12/2/2021 10:26:00 PM	R83260
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/2/2021 10:26:00 PM	R83260
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/2/2021 10:26:00 PM	R83260
Surr: Toluene-d8	99.0	70-130		%Rec	1	12/2/2021 10:26:00 PM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 3:07:00 PM
Lab ID: 2112155-003 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **DAM**	
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 1:52:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 1:52:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 1:52:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 1:52:00 AM	64290
Surr: 2-Fluorobiphenyl	62.0	15-84.5	H	%Rec	1	12/28/2021 1:52:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Toluene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Naphthalene	ND	2.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Acetone	ND	10		µg/L	1	12/2/2021 10:50:00 PM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Bromoform	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Bromomethane	ND	3.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
2-Butanone	ND	10		µg/L	1	12/2/2021 10:50:00 PM	R83260
Carbon disulfide	ND	10		µg/L	1	12/2/2021 10:50:00 PM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Chloroethane	ND	2.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Chloroform	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Chloromethane	ND	3.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-20
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 3:07:00 PM
Lab ID: 2112155-003 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,1-Dichloroethane	5.2	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,1-Dichloroethene	2.2	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
2-Hexanone	ND	10		µg/L	1	12/2/2021 10:50:00 PM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/2/2021 10:50:00 PM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Styrene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/2/2021 10:50:00 PM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/2/2021 10:50:00 PM	R83260
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	12/2/2021 10:50:00 PM	R83260
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/2/2021 10:50:00 PM	R83260
Surr: Dibromofluoromethane	104	70-130		%Rec	1	12/2/2021 10:50:00 PM	R83260
Surr: Toluene-d8	98.2	70-130		%Rec	1	12/2/2021 10:50:00 PM	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 3:56:00 PM
Lab ID: 2112155-004 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **DAM**	
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 2:34:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 2:34:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 2:34:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 2:34:00 AM	64290
Surr: 2-Fluorobiphenyl	50.5	15-84.5	H	%Rec	1	12/28/2021 2:34:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Toluene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Naphthalene	ND	2.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Acetone	ND	10		µg/L	1	12/2/2021 11:13:00 PM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Bromoform	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Bromomethane	ND	3.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
2-Butanone	ND	10		µg/L	1	12/2/2021 11:13:00 PM	R83260
Carbon disulfide	ND	10		µg/L	1	12/2/2021 11:13:00 PM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Chloroethane	ND	2.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Chloroform	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Chloromethane	ND	3.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-26
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 3:56:00 PM
Lab ID: 2112155-004 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,1-Dichloroethane	7.8	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,1-Dichloroethene	35	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
2-Hexanone	ND	10		µg/L	1	12/2/2021 11:13:00 PM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/2/2021 11:13:00 PM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Styrene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/2/2021 11:13:00 PM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/2/2021 11:13:00 PM	R83260
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/2/2021 11:13:00 PM	R83260
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/2/2021 11:13:00 PM	R83260
Surr: Dibromofluoromethane	103	70-130		%Rec	1	12/2/2021 11:13:00 PM	R83260
Surr: Toluene-d8	97.9	70-130		%Rec	1	12/2/2021 11:13:00 PM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-24D
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/22/2021 4:50:00 PM
Lab ID: 2112155-005 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/3/2021 1:57:00 AM	SL83260
Toluene	ND	1.0		µg/L	1	12/3/2021 1:57:00 AM	SL83260
Ethylbenzene	ND	1.0		µg/L	1	12/3/2021 1:57:00 AM	SL83260
Xylenes, Total	ND	1.5		µg/L	1	12/3/2021 1:57:00 AM	SL83260
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	12/3/2021 1:57:00 AM	SL83260
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	12/3/2021 1:57:00 AM	SL83260
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/3/2021 1:57:00 AM	SL83260
Surr: Toluene-d8	99.7	70-130		%Rec	1	12/3/2021 1:57:00 AM	SL83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/23/2021 10:36:00 AM
Lab ID: 2112155-006 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst:	**DAM**
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 3:17:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 3:17:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 3:17:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 3:17:00 AM	64290
Surr: 2-Fluorobiphenyl	64.0	15-84.5	H	%Rec	1	12/28/2021 3:17:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst:	**CCM**
Benzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Toluene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Naphthalene	ND	2.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Acetone	ND	10		µg/L	1	12/2/2021 11:37:00 PM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Bromoform	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Bromomethane	ND	3.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
2-Butanone	ND	10		µg/L	1	12/2/2021 11:37:00 PM	R83260
Carbon disulfide	ND	10		µg/L	1	12/2/2021 11:37:00 PM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Chloroethane	ND	2.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Chloroform	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Chloromethane	ND	3.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-42
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/23/2021 10:36:00 AM
Lab ID: 2112155-006 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,1-Dichloroethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,1-Dichloroethene	2.2	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
2-Hexanone	ND	10		µg/L	1	12/2/2021 11:37:00 PM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/2/2021 11:37:00 PM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Styrene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/2/2021 11:37:00 PM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/2/2021 11:37:00 PM	R83260
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	12/2/2021 11:37:00 PM	R83260
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/2/2021 11:37:00 PM	R83260
Surr: Dibromofluoromethane	103	70-130		%Rec	1	12/2/2021 11:37:00 PM	R83260
Surr: Toluene-d8	97.9	70-130		%Rec	1	12/2/2021 11:37:00 PM	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/23/2021 11:24:00 AM
Lab ID: 2112155-007 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst:	**DAM**
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 4:01:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 4:01:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 4:01:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 4:01:00 AM	64290
Surr: 2-Fluorobiphenyl	43.5	15-84.5	H	%Rec	1	12/28/2021 4:01:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst:	**CCM**
Benzene	ND	1.0		µg/L	1	12/3/2021	R83260
Toluene	ND	1.0		µg/L	1	12/3/2021	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/3/2021	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/3/2021	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/3/2021	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/3/2021	R83260
Naphthalene	ND	2.0		µg/L	1	12/3/2021	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021	R83260
Acetone	ND	10		µg/L	1	12/3/2021	R83260
Bromobenzene	ND	1.0		µg/L	1	12/3/2021	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/3/2021	R83260
Bromoform	ND	1.0		µg/L	1	12/3/2021	R83260
Bromomethane	ND	3.0		µg/L	1	12/3/2021	R83260
2-Butanone	ND	10		µg/L	1	12/3/2021	R83260
Carbon disulfide	ND	10		µg/L	1	12/3/2021	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/3/2021	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/3/2021	R83260
Chloroethane	ND	2.0		µg/L	1	12/3/2021	R83260
Chloroform	ND	1.0		µg/L	1	12/3/2021	R83260
Chloromethane	ND	3.0		µg/L	1	12/3/2021	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/3/2021	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/3/2021	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/3/2021	R83260
Dibromomethane	ND	1.0		µg/L	1	12/3/2021	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-40
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/23/2021 11:24:00 AM
Lab ID: 2112155-007 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/3/2021	R83260
1,1-Dichloroethane	ND	1.0		µg/L	1	12/3/2021	R83260
1,1-Dichloroethene	ND	1.0		µg/L	1	12/3/2021	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/3/2021	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/3/2021	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/3/2021	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/3/2021	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/3/2021	R83260
2-Hexanone	ND	10		µg/L	1	12/3/2021	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/3/2021	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/3/2021	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/3/2021	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/3/2021	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/3/2021	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/3/2021	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/3/2021	R83260
Styrene	ND	1.0		µg/L	1	12/3/2021	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/3/2021	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/3/2021	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/3/2021	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/3/2021	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/3/2021	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/3/2021	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/3/2021	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/3/2021	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/3/2021	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/3/2021	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/3/2021	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/3/2021	R83260
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	12/3/2021	R83260
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/3/2021	R83260
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/3/2021	R83260
Surr: Toluene-d8	99.2	70-130		%Rec	1	12/3/2021	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/23/2021 12:10:00 PM
Lab ID: 2112155-008 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst: **DAM**	
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 4:45:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 4:45:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 4:45:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 4:45:00 AM	64290
Surr: 2-Fluorobiphenyl	57.0	15-84.5	H	%Rec	1	12/28/2021 4:45:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Toluene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Naphthalene	ND	2.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Acetone	ND	10		µg/L	1	12/3/2021 12:23:00 AM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Bromoform	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Bromomethane	ND	3.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
2-Butanone	ND	10		µg/L	1	12/3/2021 12:23:00 AM	R83260
Carbon disulfide	ND	10		µg/L	1	12/3/2021 12:23:00 AM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Chloroethane	ND	2.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Chloroform	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Chloromethane	ND	3.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-41
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/23/2021 12:10:00 PM
Lab ID: 2112155-008 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,1-Dichloroethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,1-Dichloroethene	1.2	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
2-Hexanone	ND	10		µg/L	1	12/3/2021 12:23:00 AM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/3/2021 12:23:00 AM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Styrene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/3/2021 12:23:00 AM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/3/2021 12:23:00 AM	R83260
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/3/2021 12:23:00 AM	R83260
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/3/2021 12:23:00 AM	R83260
Surr: Dibromofluoromethane	103	70-130		%Rec	1	12/3/2021 12:23:00 AM	R83260
Surr: Toluene-d8	99.7	70-130		%Rec	1	12/3/2021 12:23:00 AM	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Client Sample ID:** MW-39
Project: Earth Con Consultants Inc TWP Roswell **Collection Date:** 11/23/2021 12:52:00 PM
Lab ID: 2112155-009 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270SIM						Analyst:	**DAM**
1,4-Dioxane	ND	1.0	H	µg/L	1	12/28/2021 5:30:00 AM	64290
Naphthalene	ND	0.10	H	µg/L	1	12/28/2021 5:30:00 AM	64290
1-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 5:30:00 AM	64290
2-Methylnaphthalene	ND	0.10	H	µg/L	1	12/28/2021 5:30:00 AM	64290
Surr: 2-Fluorobiphenyl	65.5	15-84.5	H	%Rec	1	12/28/2021 5:30:00 AM	64290
EPA METHOD 8260B: VOLATILES						Analyst:	**CCM**
Benzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Toluene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Naphthalene	ND	2.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Acetone	ND	10		µg/L	1	12/3/2021 12:47:00 AM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Bromoform	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Bromomethane	ND	3.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
2-Butanone	ND	10		µg/L	1	12/3/2021 12:47:00 AM	R83260
Carbon disulfide	ND	10		µg/L	1	12/3/2021 12:47:00 AM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Chloroethane	ND	2.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Chloroform	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Chloromethane	ND	3.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: MW-39
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 11/23/2021 12:52:00 PM
Lab ID: 2112155-009 **Matrix:** AQUEOUS **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,1-Dichloroethane	3.4	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,1-Dichloroethene	19	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,1-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
2-Hexanone	ND	10		µg/L	1	12/3/2021 12:47:00 AM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/3/2021 12:47:00 AM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Styrene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/3/2021 12:47:00 AM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/3/2021 12:47:00 AM	R83260
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	12/3/2021 12:47:00 AM	R83260
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/3/2021 12:47:00 AM	R83260
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	12/3/2021 12:47:00 AM	R83260
Surr: Toluene-d8	98.4	70-130		%Rec	1	12/3/2021 12:47:00 AM	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Client Sample ID:** TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell **Collection Date:**
Lab ID: 2112155-010 **Matrix:** TRIP BLANK **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Toluene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Naphthalene	ND	2.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Acetone	ND	10		µg/L	1	12/3/2021 1:10:00 AM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Bromoform	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Bromomethane	ND	3.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
2-Butanone	ND	10		µg/L	1	12/3/2021 1:10:00 AM	R83260
Carbon disulfide	ND	10		µg/L	1	12/3/2021 1:10:00 AM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Chloroethane	ND	2.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Chloroform	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Chloromethane	ND	3.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,1-Dichloroethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,1-Dichloroethene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/3/2021 1:10:00 AM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 2112155-010
Matrix: TRIP BLANK
Received Date: 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
2-Hexanone	ND	10		µg/L	1	12/3/2021 1:10:00 AM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/3/2021 1:10:00 AM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Styrene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/3/2021 1:10:00 AM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/3/2021 1:10:00 AM	R83260
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/3/2021 1:10:00 AM	R83260
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/3/2021 1:10:00 AM	R83260
Surr: Dibromofluoromethane	101	70-130		%Rec	1	12/3/2021 1:10:00 AM	R83260
Surr: Toluene-d8	99.1	70-130		%Rec	1	12/3/2021 1:10:00 AM	R83260

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	Estimated value
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 interference		

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con **Client Sample ID:** TRIP BLANK 2
Project: Earth Con Consultants Inc TWP Roswell **Collection Date:**
Lab ID: 2112155-011 **Matrix:** TRIP BLANK **Received Date:** 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Toluene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Ethylbenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Naphthalene	ND	2.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
2-Methylnaphthalene	ND	4.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Acetone	ND	10		µg/L	1	12/3/2021 1:34:00 AM	R83260
Bromobenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Bromodichloromethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Bromoform	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Bromomethane	ND	3.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
2-Butanone	ND	10		µg/L	1	12/3/2021 1:34:00 AM	R83260
Carbon disulfide	ND	10		µg/L	1	12/3/2021 1:34:00 AM	R83260
Carbon Tetrachloride	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Chlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Chloroethane	ND	2.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Chloroform	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Chloromethane	ND	3.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
2-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
4-Chlorotoluene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
cis-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Dibromochloromethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Dibromomethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,1-Dichloroethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,1-Dichloroethene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,3-Dichloropropane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
2,2-Dichloropropane	ND	2.0		µg/L	1	12/3/2021 1:34:00 AM	R83260

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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2112155**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK 2
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 2112155-011
Matrix: TRIP BLANK
Received Date: 12/2/2021 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Hexachlorobutadiene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
2-Hexanone	ND	10		µg/L	1	12/3/2021 1:34:00 AM	R83260
Isopropylbenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
4-Isopropyltoluene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
4-Methyl-2-pentanone	ND	10		µg/L	1	12/3/2021 1:34:00 AM	R83260
Methylene Chloride	ND	3.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
n-Butylbenzene	ND	3.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
n-Propylbenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
sec-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Styrene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
tert-Butylbenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
trans-1,2-DCE	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Trichlorofluoromethane	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Vinyl chloride	ND	1.0		µg/L	1	12/3/2021 1:34:00 AM	R83260
Xylenes, Total	ND	1.5		µg/L	1	12/3/2021 1:34:00 AM	R83260
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	12/3/2021 1:34:00 AM	R83260
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	12/3/2021 1:34:00 AM	R83260
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/3/2021 1:34:00 AM	R83260
Surr: Toluene-d8	100	70-130		%Rec	1	12/3/2021 1:34:00 AM	R83260

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	Estimated value
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 interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112155**

30-Dec-21

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: **SL83260**	RunNo: **83260**
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958492** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.7	70	130			
Toluene	20	1.0	20.00	0	99.3	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **SL83260**	RunNo: **83260**
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958493** 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	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.8		10.00		98.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112155**

30-Dec-21

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: **R83260**	RunNo: **83260**
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958465** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.7	70	130			
Toluene	20	1.0	20.00	0	99.3	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	87.6	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	94.6	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R83260**	RunNo: **83260**
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958466** 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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112155**
30-Dec-21

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: **R83260**	RunNo: **83260**	
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958466**	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	Estimated value
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 interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112155**

30-Dec-21

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: **R83260**	RunNo: **83260**
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958466** 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	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.8		10.00		98.4	70	130			

Sample ID: **2112155-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-22**	Batch ID: **R83260**	RunNo: **83260**
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958476** 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	98.8	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	19	1.0	20.00	1.962	87.1	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	97.4	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		99.7	70	130			

Sample ID: **2112155-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-22**	Batch ID: **R83260**	RunNo: **83260**
Prep Date:	Analysis Date: **12/2/2021**	SeqNo: **2958477** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.0	70	130	4.45	20	
Toluene	19	1.0	20.00	0	95.0	70	130	3.94	20	
Chlorobenzene	20	1.0	20.00	0	98.0	70	130	3.73	20	
1,1-Dichloroethene	18	1.0	20.00	1.962	82.0	70	130	5.43	20	
Trichloroethene (TCE)	18	1.0	20.00	0	90.5	70	130	7.29	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		103	70	130	0	0	
Surr: Toluene-d8	10		10.00		99.9	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	Estimated value
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 interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112155**

30-Dec-21

Client: Earth Con

Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **mb-64290**	SampType: **MBLK**	TestCode: **EPA Method 8270SIM**
Client ID: **PBW**	Batch ID: **64290**	RunNo: **84796**
Prep Date: **12/3/2021**	Analysis Date: **12/27/2021**	SeqNo: **2982585** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	1.0								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.10								
2-Methylnaphthalene	ND	0.10								
Acenaphthylene	ND	0.10								
Acenaphthene	ND	0.10								
Fluorene	ND	0.10								
Phenanthrene	ND	0.10								
Anthracene	ND	0.10								
Fluoranthene	ND	0.20								
Pyrene	ND	0.20								
Benz(a)anthracene	ND	0.10								
Chrysene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Benzo(a)pyrene	ND	0.070								
Dibenz(a,h)anthracene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Indeno(1,2,3-cd)pyrene	ND	0.30								
Atrazine	ND	1.5								
Pentachlorophenol	ND	0.10								
Surr: Nitrobenzene-d5	2.3		4.000		57.0	21.9	89.8			
Surr: 2,4,6-Tribromophenol	3.5		8.000		44.2	23.4	71.6			
Surr: 2-Fluorobiphenyl	2.4		4.000		61.0	15	84.5			
Surr: 4-Terphenyl-d14	3.0		4.000		75.5	73.1	152			

Sample ID: **lcs-64290**	SampType: **LCS**	TestCode: **EPA Method 8270SIM**
Client ID: **LCSW**	Batch ID: **64290**	RunNo: **84796**
Prep Date: **12/3/2021**	Analysis Date: **12/27/2021**	SeqNo: **2982586** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	1.4	1.0	2.000	0	72.0	15	79.8			
Naphthalene	1.9	0.10	2.000	0	96.0	26.5	90.9			S
1-Methylnaphthalene	1.9	0.10	2.000	0	94.0	27.9	88.2			S
2-Methylnaphthalene	1.8	0.10	2.000	0	89.0	29.2	87.5			S
Acenaphthylene	2.5	0.10	2.000	0	125	30	92.9			S
Acenaphthene	2.3	0.10	2.000	0	116	25.6	93.9			S
Fluorene	2.6	0.10	2.000	0	132	27.4	95.1			S
Phenanthrene	2.9	0.10	2.000	0	146	25.1	104			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112155**

30-Dec-21

Client: Earth Con

Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **lcs-64290** SampType: **LCS** TestCode: **EPA Method 8270SIM**

Client ID: **LCSW** Batch ID: **64290** RunNo: **84796**

Prep Date: **12/3/2021** Analysis Date: **12/27/2021** SeqNo: **2982586** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Anthracene	3.0	0.10	2.000	0	150	30.1	100			S
Fluoranthene	3.9	0.20	2.000	0	196	41.6	126			S
Pyrene	3.4	0.20	2.000	0	172	34.5	112			S
Benz(a)anthracene	4.2	0.10	2.000	0	208	43.9	132			S
Chrysene	3.6	0.10	2.000	0	180	39.8	118			S
Benzo(b)fluoranthene	4.0	0.10	2.000	0	198	37.2	134			S
Benzo(k)fluoranthene	3.8	0.10	2.000	0	188	43.8	122			S
Benzo(a)pyrene	3.9	0.070	2.000	0	195	36.6	122			S
Dibenz(a,h)anthracene	3.8	0.10	2.000	0	190	35.5	129			S
Benzo(g,h,i)perylene	3.7	0.10	2.000	0	183	39.4	120			S
Indeno(1,2,3-cd)pyrene	4.2	0.30	2.000	0	212	24.9	150			S
Atrazine	4.1	1.5	2.000	0	205	32.5	135			S
Pentachlorophenol	3.6	0.10	2.000	0	178	15	116			S
Surr: Nitrobenzene-d5	5.0		5.000		100	21.9	89.8			S
Surr: 2,4,6-Tribromophenol	8.4		10.00		83.6	23.4	71.6			S
Surr: 2-Fluorobiphenyl	4.1		5.000		81.2	15	84.5			
Surr: 4-Terphenyl-d14	6.4		5.000		128	73.1	152			

Sample ID: **lcsd-64290** SampType: **LCSD** TestCode: **EPA Method 8270SIM**

Client ID: **LCSS02** Batch ID: **64290** RunNo: **84796**

Prep Date: **12/3/2021** Analysis Date: **12/27/2021** SeqNo: **2982587** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	1.0	2.000	0	35.0	15	79.8	200	34.2	R
Naphthalene	0.70	0.10	2.000	0	35.0	26.5	90.9	93.1	37.6	R
1-Methylnaphthalene	0.66	0.10	2.000	0	33.0	27.9	88.2	96.1	33.1	R
2-Methylnaphthalene	0.64	0.10	2.000	0	32.0	29.2	87.5	94.2	35.4	R
Surr: Nitrobenzene-d5	3.4		5.000		67.2	21.9	89.8	0	0	
Surr: 2,4,6-Tribromophenol	5.4		10.00		54.2	23.4	71.6	0	0	
Surr: 2-Fluorobiphenyl	2.6		5.000		51.6	15	84.5	0	0	
Surr: 4-Terphenyl-d14	4.5		5.000		89.6	73.1	152	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2112155** RcptNo: **1**

Received By: **Juan Rojas** **12/2/2021 9:25:00 AM**

Completed By: **Cheyenne Cason** **12/2/2021 1:44:10 PM**

Reviewed By: KPG 12/02/21

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. 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: Sca 12/2/21

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	2.7	Good	Not Present			
2	1.6	Good	Not Present			

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway Suite 109
Marietta, Ga. 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@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 #: 02.2012.003710 Bi-Annual GW Monitoring 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PK
On Ice: ☒ Yes ☐ No
# of Coolers: 2
Cooler Temp (including CF): 2.6 +0.1 = 2.7 (°C) 1.5 +0.1 = 1.6

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, NO3, NO2, PO4, SO4	8260 (VOA) Full List + TEMDL	8270 (Semi-VOA)	Total Coliform (Present/Absent)	BTEX 8260	8270 SIMS, 1,4 Dioxane	Naphthalene, 1-MDL	1-Methylnaphthalene	2-Methylnaphthalene
11/22/21	1440	H2O	MW-22	3x40mL VOAs/1x1L Amber	None HCl	001								X				X	X	X	X
11/22/21	1440	H2O	MW-22 Duplicate	3x40mL VOAs/1x1L Amber	None HCl	002								X				X	X	X	X
11/22/21	1520 1556	H2O	MW-20	3x40mL VOAs/1x1L Amber	HCl None	003								X				X	X	X	X
11/22/21	1556	H2O	MW-26	3x40mL VOAs/1x1L Amber	HCl None	004								X				X	X	X	X
11/22/21	1650	H2O	MW-24D	3x40mL VOAs	HCl	005											X				
11/23/21	1036	H2O	MW-42			006								X				X	X	X	X
11/23/21	1124	H2O	MW-40			007								X				X	X	X	X
11/23/21	12:10	H2O	MW-41			008								X				X	X	X	X
11/23/21	12:52	H2O	MW-39			009								X				X	X	X	X
			TRIP Blank	2x40mL VOAs	HCl	010															
			Trip Blank			011															

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/22/21	1600			UPS	12/2/21	9:20
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.

Appendix C

Analytical Data Packages – SVE and Groundwater Treatment System Sampling

01-Feb-2021

Sofie Weber-Snapp
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Re: **Roswell Station #9** Work Order: **21010970**

Dear Sofie,

ALS Environmental received 2 samples on 27-Jan-2021 01:19 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

Report of Laboratory Analysis

ALS Environmental

Date: 01-Feb-21

Client: EarthCon
Project: Roswell Station #9
Work Order: **21010970**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21010970-01	West Baker Furnace	Air		1/22/2021 10:20	1/27/2021 13:19	☐
21010970-02	East Baker Furnace	Air		1/22/2021 10:25	1/27/2021 13:19	☐

ALS Environmental

Date: 01-Feb-21

Client: EarthCon
Project: Roswell Station #9
Work Order: 21010970

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: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9
Sample ID: West Baker Furnace
Collection Date: 1/22/2021 10:20 AM

Work Order: 21010970
Lab ID: 21010970-01
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	1/29/2021 02:34 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	1/29/2021 02:34 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	1/29/2021 02:34 AM
1,1-Dichloroethane	ND		250	ppbv	500	1/29/2021 02:34 AM
1,1-Dichloroethene	ND		250	ppbv	500	1/29/2021 02:34 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	1/29/2021 02:34 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	1/29/2021 02:34 AM
1,2-Dibromoethane	ND		100	ppbv	500	1/29/2021 02:34 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	1/29/2021 02:34 AM
1,2-Dichloroethane	ND		100	ppbv	500	1/29/2021 02:34 AM
1,2-Dichloropropane	ND		250	ppbv	500	1/29/2021 02:34 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	1/29/2021 02:34 AM
1,3-Butadiene	ND		100	ppbv	500	1/29/2021 02:34 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	1/29/2021 02:34 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	1/29/2021 02:34 AM
1,4-Dioxane	ND		500	ppbv	500	1/29/2021 02:34 AM
2-Butanone	ND		500	ppbv	500	1/29/2021 02:34 AM
2-Hexanone	ND		500	ppbv	500	1/29/2021 02:34 AM
2-Propanol	ND		500	ppbv	500	1/29/2021 02:34 AM
4-Ethyltoluene	ND		250	ppbv	500	1/29/2021 02:34 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	1/29/2021 02:34 AM
Acetone	ND		500	ppbv	500	1/29/2021 02:34 AM
Benzene	**410**		**250**	**ppbv**	500	1/29/2021 02:34 AM
Benzyl chloride	ND		500	ppbv	500	1/29/2021 02:34 AM
Bromodichloromethane	ND		100	ppbv	500	1/29/2021 02:34 AM
Bromoform	ND		250	ppbv	500	1/29/2021 02:34 AM
Bromomethane	ND		250	ppbv	500	1/29/2021 02:34 AM
Carbon disulfide	ND		250	ppbv	500	1/29/2021 02:34 AM
Carbon tetrachloride	ND		250	ppbv	500	1/29/2021 02:34 AM
Chlorobenzene	ND		250	ppbv	500	1/29/2021 02:34 AM
Chloroethane	ND		250	ppbv	500	1/29/2021 02:34 AM
Chloroform	ND		100	ppbv	500	1/29/2021 02:34 AM
Chloromethane	ND		250	ppbv	500	1/29/2021 02:34 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	1/29/2021 02:34 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	1/29/2021 02:34 AM
Cumene	ND		250	ppbv	500	1/29/2021 02:34 AM
Cyclohexane	**14,000**		**2,500**	**ppbv**	5000	1/29/2021 01:50 AM
Dibromochloromethane	ND		250	ppbv	500	1/29/2021 02:34 AM
Dichlorodifluoromethane	ND		250	ppbv	500	1/29/2021 02:34 AM

Note:

ALS Environmental

Date: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9 **Work Order:** 21010970
Sample ID: West Baker Furnace **Lab ID:** 21010970-01
Collection Date: 1/22/2021 10:20 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	1/29/2021 02:34 AM
Ethylbenzene	ND		250	ppbv	500	1/29/2021 02:34 AM
Freon 113	ND		250	ppbv	500	1/29/2021 02:34 AM
Freon 114	ND		250	ppbv	500	1/29/2021 02:34 AM
Heptane	**12,000**		**2,500**	**ppbv**	5000	1/29/2021 01:50 AM
Hexachlorobutadiene	ND		100	ppbv	500	1/29/2021 02:34 AM
Hexane	**24,000**		**2,500**	**ppbv**	5000	1/29/2021 01:50 AM
m,p-Xylene	ND		250	ppbv	500	1/29/2021 02:34 AM
Methylene chloride	ND		1,000	ppbv	500	1/29/2021 02:34 AM
MTBE	ND		250	ppbv	500	1/29/2021 02:34 AM
Naphthalene	ND		100	ppbv	500	1/29/2021 02:34 AM
o-Xylene	ND		250	ppbv	500	1/29/2021 02:34 AM
Propene	ND		250	ppbv	500	1/29/2021 02:34 AM
Styrene	ND		250	ppbv	500	1/29/2021 02:34 AM
Tetrachloroethene	ND		250	ppbv	500	1/29/2021 02:34 AM
Tetrahydrofuran	ND		250	ppbv	500	1/29/2021 02:34 AM
Toluene	**260**		**250**	**ppbv**	500	1/29/2021 02:34 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	1/29/2021 02:34 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	1/29/2021 02:34 AM
Trichloroethene	ND		100	ppbv	500	1/29/2021 02:34 AM
Trichlorofluoromethane	ND		250	ppbv	500	1/29/2021 02:34 AM
Vinyl acetate	ND		250	ppbv	500	1/29/2021 02:34 AM
Vinyl chloride	ND		250	ppbv	500	1/29/2021 02:34 AM
Surr: Bromofluorobenzene	*109*		*60-140*	*%REC*	500	1/29/2021 02:34 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	1/29/2021 02:34 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	1/29/2021 02:34 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	1/29/2021 02:34 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	1/29/2021 02:34 AM
1,1-Dichloroethene	ND		991	µg/m3	500	1/29/2021 02:34 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	1/29/2021 02:34 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	1/29/2021 02:34 AM
1,2-Dibromoethane	ND		768	µg/m3	500	1/29/2021 02:34 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	1/29/2021 02:34 AM
1,2-Dichloroethane	ND		405	µg/m3	500	1/29/2021 02:34 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	1/29/2021 02:34 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	1/29/2021 02:34 AM
1,3-Butadiene	ND		221	µg/m3	500	1/29/2021 02:34 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	1/29/2021 02:34 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	1/29/2021 02:34 AM

Note:

ALS Environmental

Date: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9 **Work Order:** 21010970
Sample ID: West Baker Furnace **Lab ID:** 21010970-01
Collection Date: 1/22/2021 10:20 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	1/29/2021 02:34 AM
2-Butanone	ND		1,470	µg/m3	500	1/29/2021 02:34 AM
2-Hexanone	ND		2,050	µg/m3	500	1/29/2021 02:34 AM
2-Propanol	ND		1,230	µg/m3	500	1/29/2021 02:34 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	1/29/2021 02:34 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	1/29/2021 02:34 AM
Acetone	ND		1,190	µg/m3	500	1/29/2021 02:34 AM
Benzene	**1,310**		**799**	**µg/m3**	500	1/29/2021 02:34 AM
Benzyl chloride	ND		2,590	µg/m3	500	1/29/2021 02:34 AM
Bromodichloromethane	ND		670	µg/m3	500	1/29/2021 02:34 AM
Bromoform	ND		2,580	µg/m3	500	1/29/2021 02:34 AM
Bromomethane	ND		971	µg/m3	500	1/29/2021 02:34 AM
Carbon disulfide	ND		778	µg/m3	500	1/29/2021 02:34 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	1/29/2021 02:34 AM
Chlorobenzene	ND		1,150	µg/m3	500	1/29/2021 02:34 AM
Chloroethane	ND		660	µg/m3	500	1/29/2021 02:34 AM
Chloroform	ND		488	µg/m3	500	1/29/2021 02:34 AM
Chloromethane	ND		516	µg/m3	500	1/29/2021 02:34 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	1/29/2021 02:34 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/29/2021 02:34 AM
Cumene	ND		1,230	µg/m3	500	1/29/2021 02:34 AM
Cyclohexane	**48,500**		**8,610**	**µg/m3**	5000	1/29/2021 01:50 AM
Dibromochloromethane	ND		2,130	µg/m3	500	1/29/2021 02:34 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	1/29/2021 02:34 AM
Ethyl acetate	ND		901	µg/m3	500	1/29/2021 02:34 AM
Ethylbenzene	ND		1,090	µg/m3	500	1/29/2021 02:34 AM
Freon 113	ND		1,920	µg/m3	500	1/29/2021 02:34 AM
Freon 114	ND		1,750	µg/m3	500	1/29/2021 02:34 AM
Heptane	**51,200**		**10,200**	**µg/m3**	5000	1/29/2021 01:50 AM
Hexachlorobutadiene	ND		1,070	µg/m3	500	1/29/2021 02:34 AM
Hexane	**83,200**		**8,810**	**µg/m3**	5000	1/29/2021 01:50 AM
m,p-Xylene	ND		1,090	µg/m3	500	1/29/2021 02:34 AM
Methylene chloride	ND		3,500	µg/m3	500	1/29/2021 02:34 AM
MTBE	ND		901	µg/m3	500	1/29/2021 02:34 AM
Naphthalene	ND		524	µg/m3	500	1/29/2021 02:34 AM
o-Xylene	ND		1,090	µg/m3	500	1/29/2021 02:34 AM
Propene	ND		430	µg/m3	500	1/29/2021 02:34 AM
Styrene	ND		1,060	µg/m3	500	1/29/2021 02:34 AM
Tetrachloroethene	ND		1,700	µg/m3	500	1/29/2021 02:34 AM
Tetrahydrofuran	ND		737	µg/m3	500	1/29/2021 02:34 AM

Note:

ALS Environmental

Date: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9
Sample ID: West Baker Furnace
Collection Date: 1/22/2021 10:20 AM

Work Order: 21010970
Lab ID: 21010970-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**999**		**942**	**µg/m3**	500	1/29/2021 02:34 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	1/29/2021 02:34 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/29/2021 02:34 AM
Trichloroethene	ND		537	µg/m3	500	1/29/2021 02:34 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	1/29/2021 02:34 AM
Vinyl acetate	ND		880	µg/m3	500	1/29/2021 02:34 AM
Vinyl chloride	ND		639	µg/m3	500	1/29/2021 02:34 AM
Surr: Bromofluorobenzene	*109*		*60-140*	*%REC*	500	1/29/2021 02:34 AM

Note:

ALS Environmental

Date: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9 **Work Order:** 21010970
Sample ID: East Baker Furnace **Lab ID:** 21010970-02
Collection Date: 1/22/2021 10:25 AM **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	1/29/2021 04:03 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	1/29/2021 04:03 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	1/29/2021 04:03 AM
1,1-Dichloroethane	ND		250	ppbv	500	1/29/2021 04:03 AM
1,1-Dichloroethene	ND		250	ppbv	500	1/29/2021 04:03 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	1/29/2021 04:03 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	1/29/2021 04:03 AM
1,2-Dibromoethane	ND		100	ppbv	500	1/29/2021 04:03 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	1/29/2021 04:03 AM
1,2-Dichloroethane	ND		100	ppbv	500	1/29/2021 04:03 AM
1,2-Dichloropropane	ND		250	ppbv	500	1/29/2021 04:03 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	1/29/2021 04:03 AM
1,3-Butadiene	ND		100	ppbv	500	1/29/2021 04:03 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	1/29/2021 04:03 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	1/29/2021 04:03 AM
1,4-Dioxane	ND		500	ppbv	500	1/29/2021 04:03 AM
2-Butanone	ND		500	ppbv	500	1/29/2021 04:03 AM
2-Hexanone	ND		500	ppbv	500	1/29/2021 04:03 AM
2-Propanol	ND		500	ppbv	500	1/29/2021 04:03 AM
4-Ethyltoluene	ND		250	ppbv	500	1/29/2021 04:03 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	1/29/2021 04:03 AM
Acetone	**650**		**500**	**ppbv**	500	1/29/2021 04:03 AM
Benzene	**250**		**250**	**ppbv**	500	1/29/2021 04:03 AM
Benzyl chloride	ND		500	ppbv	500	1/29/2021 04:03 AM
Bromodichloromethane	ND		100	ppbv	500	1/29/2021 04:03 AM
Bromoform	ND		250	ppbv	500	1/29/2021 04:03 AM
Bromomethane	ND		250	ppbv	500	1/29/2021 04:03 AM
Carbon disulfide	ND		250	ppbv	500	1/29/2021 04:03 AM
Carbon tetrachloride	ND		250	ppbv	500	1/29/2021 04:03 AM
Chlorobenzene	ND		250	ppbv	500	1/29/2021 04:03 AM
Chloroethane	ND		250	ppbv	500	1/29/2021 04:03 AM
Chloroform	ND		100	ppbv	500	1/29/2021 04:03 AM
Chloromethane	ND		250	ppbv	500	1/29/2021 04:03 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	1/29/2021 04:03 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	1/29/2021 04:03 AM
Cumene	ND		250	ppbv	500	1/29/2021 04:03 AM
Cyclohexane	**8,400**		**250**	**ppbv**	500	1/29/2021 04:03 AM
Dibromochloromethane	ND		250	ppbv	500	1/29/2021 04:03 AM
Dichlorodifluoromethane	ND		250	ppbv	500	1/29/2021 04:03 AM

Note:

ALS Environmental

Date: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9 **Work Order:** 21010970
Sample ID: East Baker Furnace **Lab ID:** 21010970-02
Collection Date: 1/22/2021 10:25 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	1/29/2021 04:03 AM
Ethylbenzene	ND		250	ppbv	500	1/29/2021 04:03 AM
Freon 113	ND		250	ppbv	500	1/29/2021 04:03 AM
Freon 114	ND		250	ppbv	500	1/29/2021 04:03 AM
Heptane	**8,000**		**250**	**ppbv**	500	1/29/2021 04:03 AM
Hexachlorobutadiene	ND		100	ppbv	500	1/29/2021 04:03 AM
Hexane	**15,000**		**2,500**	**ppbv**	5000	1/29/2021 03:19 AM
m,p-Xylene	ND		250	ppbv	500	1/29/2021 04:03 AM
Methylene chloride	ND		1,000	ppbv	500	1/29/2021 04:03 AM
MTBE	ND		250	ppbv	500	1/29/2021 04:03 AM
Naphthalene	ND		100	ppbv	500	1/29/2021 04:03 AM
o-Xylene	ND		250	ppbv	500	1/29/2021 04:03 AM
Propene	ND		250	ppbv	500	1/29/2021 04:03 AM
Styrene	ND		250	ppbv	500	1/29/2021 04:03 AM
Tetrachloroethene	ND		250	ppbv	500	1/29/2021 04:03 AM
Tetrahydrofuran	ND		250	ppbv	500	1/29/2021 04:03 AM
Toluene	ND		250	ppbv	500	1/29/2021 04:03 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	1/29/2021 04:03 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	1/29/2021 04:03 AM
Trichloroethene	ND		100	ppbv	500	1/29/2021 04:03 AM
Trichlorofluoromethane	ND		250	ppbv	500	1/29/2021 04:03 AM
Vinyl acetate	ND		250	ppbv	500	1/29/2021 04:03 AM
Vinyl chloride	ND		250	ppbv	500	1/29/2021 04:03 AM
Surr: Bromofluorobenzene	*107*		*60-140*	*%REC*	500	1/29/2021 04:03 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	1/29/2021 04:03 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	1/29/2021 04:03 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	1/29/2021 04:03 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	1/29/2021 04:03 AM
1,1-Dichloroethene	ND		991	µg/m3	500	1/29/2021 04:03 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	1/29/2021 04:03 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	1/29/2021 04:03 AM
1,2-Dibromoethane	ND		768	µg/m3	500	1/29/2021 04:03 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	1/29/2021 04:03 AM
1,2-Dichloroethane	ND		405	µg/m3	500	1/29/2021 04:03 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	1/29/2021 04:03 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	1/29/2021 04:03 AM
1,3-Butadiene	ND		221	µg/m3	500	1/29/2021 04:03 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	1/29/2021 04:03 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	1/29/2021 04:03 AM

Note:

ALS Environmental

Date: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9 **Work Order:** 21010970
Sample ID: East Baker Furnace **Lab ID:** 21010970-02
Collection Date: 1/22/2021 10:25 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	1/29/2021 04:03 AM
2-Butanone	ND		1,470	µg/m3	500	1/29/2021 04:03 AM
2-Hexanone	ND		2,050	µg/m3	500	1/29/2021 04:03 AM
2-Propanol	ND		1,230	µg/m3	500	1/29/2021 04:03 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	1/29/2021 04:03 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	1/29/2021 04:03 AM
Acetone	**1,540**		**1,190**	**µg/m3**	500	1/29/2021 04:03 AM
Benzene	ND		799	µg/m3	500	1/29/2021 04:03 AM
Benzyl chloride	ND		2,590	µg/m3	500	1/29/2021 04:03 AM
Bromodichloromethane	ND		670	µg/m3	500	1/29/2021 04:03 AM
Bromoform	ND		2,580	µg/m3	500	1/29/2021 04:03 AM
Bromomethane	ND		971	µg/m3	500	1/29/2021 04:03 AM
Carbon disulfide	ND		778	µg/m3	500	1/29/2021 04:03 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	1/29/2021 04:03 AM
Chlorobenzene	ND		1,150	µg/m3	500	1/29/2021 04:03 AM
Chloroethane	ND		660	µg/m3	500	1/29/2021 04:03 AM
Chloroform	ND		488	µg/m3	500	1/29/2021 04:03 AM
Chloromethane	ND		516	µg/m3	500	1/29/2021 04:03 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	1/29/2021 04:03 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/29/2021 04:03 AM
Cumene	ND		1,230	µg/m3	500	1/29/2021 04:03 AM
Cyclohexane	**29,000**		**861**	**µg/m3**	500	1/29/2021 04:03 AM
Dibromochloromethane	ND		2,130	µg/m3	500	1/29/2021 04:03 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	1/29/2021 04:03 AM
Ethyl acetate	ND		901	µg/m3	500	1/29/2021 04:03 AM
Ethylbenzene	ND		1,090	µg/m3	500	1/29/2021 04:03 AM
Freon 113	ND		1,920	µg/m3	500	1/29/2021 04:03 AM
Freon 114	ND		1,750	µg/m3	500	1/29/2021 04:03 AM
Heptane	**32,900**		**1,020**	**µg/m3**	500	1/29/2021 04:03 AM
Hexachlorobutadiene	ND		1,070	µg/m3	500	1/29/2021 04:03 AM
Hexane	**51,600**		**8,810**	**µg/m3**	5000	1/29/2021 03:19 AM
m,p-Xylene	ND		1,090	µg/m3	500	1/29/2021 04:03 AM
Methylene chloride	ND		3,500	µg/m3	500	1/29/2021 04:03 AM
MTBE	ND		901	µg/m3	500	1/29/2021 04:03 AM
Naphthalene	ND		524	µg/m3	500	1/29/2021 04:03 AM
o-Xylene	ND		1,090	µg/m3	500	1/29/2021 04:03 AM
Propene	ND		430	µg/m3	500	1/29/2021 04:03 AM
Styrene	ND		1,060	µg/m3	500	1/29/2021 04:03 AM
Tetrachloroethene	ND		1,700	µg/m3	500	1/29/2021 04:03 AM
Tetrahydrofuran	ND		737	µg/m3	500	1/29/2021 04:03 AM

Note:

ALS Environmental

Date: *01-Feb-21*

Client: EarthCon
Project: Roswell Station #9
Sample ID: East Baker Furnace
Collection Date: 1/22/2021 10:25 AM

Work Order: 21010970
Lab ID: 21010970-02
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	1/29/2021 04:03 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	1/29/2021 04:03 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/29/2021 04:03 AM
Trichloroethene	ND		537	µg/m3	500	1/29/2021 04:03 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	1/29/2021 04:03 AM
Vinyl acetate	ND		880	µg/m3	500	1/29/2021 04:03 AM
Vinyl chloride	ND		639	µg/m3	500	1/29/2021 04:03 AM
Surr: Bromofluorobenzene	*107*		*60-140*	*%REC*	500	1/29/2021 04:03 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 West Baker Furnace
ALS Sample # 21010970-01a
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	111511	PPBV
	TVOC**	393001	ug/m3

Client Sample ID: TWP East Baker Furnace
ALS Sample # 21010970-02a
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	66973	PPBV
	TVOC**	236036	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 01-Feb-21

Client: EarthCon

Work Order: 21010970

Project: Roswell Station #9

QC BATCH REPORT

Batch ID: **R187370** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID: **MBLK-R187370** Units: **ppbv** Analysis Date: **1/28/2021 03:22 PM**

Client ID: Run ID: **VMS4_210128A** SeqNo: **2390224** 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	0.20								
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	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	1.0								
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	1.0								
Bromodichloromethane	ND	0.20								
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: 21010970
Project: Roswell Station #9

QC BATCH REPORT

Batch ID: **R187370** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50					
Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.20					
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	*10.18*	0	*10*	0	*102*	*60-140*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21010970
Project: Roswell Station #9

QC BATCH REPORT

Batch ID: **R187370** Instrument ID **VMS4** Method: **ETO-15**

lcs	Sample ID: **LCS-R187370**				Units: **ppbv**			Analysis Date: **1/28/2021 02:10 PM**		
Client ID:		Run ID: **VMS4_210128A**			SeqNo: **2390223**		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	8.08	0.50	10	0	80.8	58.8-163	0			
1,1,2,2-Tetrachloroethane	7.95	0.50	10	0	79.5	60-140	0			
1,1,2-Trichloroethane	8.02	0.20	10	0	80.2	60-140	0			
1,1-Dichloroethane	8.43	0.50	10	0	84.3	60-140	0			
1,1-Dichloroethene	8.39	0.50	10	0	83.9	60-140	0			
1,2,4-Trichlorobenzene	6.28	0.50	10	0	62.8	49.3-150	0			
1,2,4-Trimethylbenzene	7.95	0.50	10	0	79.5	50.1-162	0			
1,2-Dibromoethane	7.9	0.20	10	0	79	60-140	0			
1,2-Dichlorobenzene	7.41	0.50	10	0	74.1	41.9-141	0			
1,2-Dichloroethane	8.67	0.20	10	0	86.7	60-140	0			
1,2-Dichloropropane	8.42	0.50	10	0	84.2	60-140	0			
1,3,5-Trimethylbenzene	7.75	0.50	10	0	77.5	60-140	0			
1,3-Butadiene	8.45	0.20	10	0	84.5	50.6-140	0			
1,3-Dichlorobenzene	7.31	0.50	10	0	73.1	60-140	0			
1,4-Dichlorobenzene	6.99	0.20	10	0	69.9	55.1-145	0			
1,4-Dioxane	7.71	1.0	10	0	77.1	60-140	0			
2-Butanone	8.21	1.0	10	0	82.1	60-140	0			
2-Hexanone	9.31	1.0	10	0	93.1	56.2-162	0			
2-Propanol	8.87	1.0	10	0	88.7	60-140	0			
4-Ethyltoluene	8.09	0.50	10	0	80.9	60-140	0			
4-Methyl-2-pentanone	9.71	1.0	10	0	97.1	60-140	0			
Acetone	9.62	1.0	10	0	96.2	60-140	0			
Benzene	8.36	0.50	10	0	83.6	60-140	0			
Benzyl chloride	7.49	1.0	10	0	74.9	31.9-174	0			
Bromodichloromethane	8.28	0.20	10	0	82.8	60-140	0			
Bromoform	7.74	0.50	10	0	77.4	60-140	0			
Bromomethane	8.12	0.50	10	0	81.2	60-140	0			
Carbon disulfide	7.78	0.50	10	0	77.8	60-140	0			
Carbon tetrachloride	7.84	0.50	10	0	78.4	60-140	0			
Chlorobenzene	7.44	0.50	10	0	74.4	60-140	0			
Chloroethane	8.71	0.50	10	0	87.1	60-140	0			
Chloroform	8.26	0.20	10	0	82.6	60-140	0			
Chloromethane	8.69	0.50	10	0	86.9	60-140	0			
cis-1,2-Dichloroethene	9.22	0.50	10	0	92.2	60-140	0			
cis-1,3-Dichloropropene	8.41	0.50	10	0	84.1	60-140	0			
Cumene	7.86	0.50	10	0	78.6	60-140	0			
Cyclohexane	8.29	0.50	10	0	82.9	60-140	0			
Dibromochloromethane	8	0.50	10	0	80	60-140	0			
Dichlorodifluoromethane	7.86	0.50	10	0	78.6	60-140	0			
Ethyl acetate	7.84	0.50	10	0	78.4	60-140	0			
Ethylbenzene	7.86	0.50	10	0	78.6	60-140	0			
Freon 113	7.82	0.50	10	0	78.2	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21010970
Project: Roswell Station #9

QC BATCH REPORT

Batch ID: **R187370** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	8.08	0.50	10	0	80.8	60-140	0
Heptane	9.8	0.50	10	0	98	60-140	0
Hexachlorobutadiene	7.07	0.20	10	0	70.7	60-140	0
Hexane	8.69	0.50	10	0	86.9	60-140	0
m,p-Xylene	15.98	0.50	20	0	79.9	60-140	0
Methylene chloride	8.18	2.0	10	0	81.8	60-140	0
MTBE	8.35	0.50	10	0	83.5	60.8-151	0
Naphthalene	6.15	0.20	10	0	61.5	53.1-152	0
o-Xylene	8.01	0.50	10	0	80.1	60-140	0
Propene	8.51	0.50	10	0	85.1	34.4-139	0
Styrene	8.02	0.50	10	0	80.2	60-140	0
Tetrachloroethene	7.89	0.50	10	0	78.9	60-140	0
Tetrahydrofuran	8.97	0.50	10	0	89.7	60-140	0
Toluene	8.59	0.50	10	0	85.9	60-140	0
trans-1,2-Dichloroethene	7.72	0.50	10	0	77.2	60-140	0
trans-1,3-Dichloropropene	8.15	0.50	10	0	81.5	60-140	0
Trichloroethene	7.94	0.20	10	0	79.4	60-140	0
Trichlorofluoromethane	10.8	0.50	10	0	108	60-140	0
Vinyl acetate	9.38	0.50	10	0	93.8	48.4-145	0
Vinyl chloride	8.95	0.50	10	0	89.5	60-140	0
Surr: Bromofluorobenzene	*10.89*	0	*10*	0	*109*	*60-140*	0

The following samples were analyzed in this batch: 21010970-01A 21010970-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 01-Feb-21

Client: EarthCon
Project: Roswell Station #9
WorkOrder: **21010970**

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: **27-Jan-21 13:19**

Work Order: **21010970** Received by: **JNW**

Checklist completed by Jan Wilcox 28-Jan-21 Reviewed by: Shawn Smythe 29-Jan-21
eSignature Date eSignature Date

Matrices: air
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 ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:			
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:

25-Mar-2021

Sofie Weber-Snapp
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Re: **TWP Roswell Station #9; SVE Quarterly Sampling/Q1/2021** Work Order: **21030820**

Dear Sofie,

ALS Environmental received 2 samples on 11-Mar-2021 03:58 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 19.

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

Report of Laboratory Analysis

ALS Environmental

Date: 25-Mar-21

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/202
Work Order: **21030820**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21030820-01	West Baker Furnace	Air		3/5/2021 09:25	3/11/2021 15:58	☐
21030820-02	East Baker Furnace	Air		3/5/2021 09:35	3/11/2021 15:58	☐

ALS Environmental

Date: 25-Mar-21

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/202
Work Order: 21030820

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: *25-Mar-21*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820
Sample ID: West Baker Furnace **Lab ID:** 21030820-01
Collection Date: 3/5/2021 09:25 AM **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	3/18/2021 07:14 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	3/18/2021 07:14 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	3/18/2021 07:14 AM
1,1-Dichloroethane	ND		250	ppbv	500	3/18/2021 07:14 AM
1,1-Dichloroethene	ND		250	ppbv	500	3/18/2021 07:14 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	3/18/2021 07:14 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	3/18/2021 07:14 AM
1,2-Dibromoethane	ND		100	ppbv	500	3/18/2021 07:14 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	3/18/2021 07:14 AM
1,2-Dichloroethane	ND		100	ppbv	500	3/18/2021 07:14 AM
1,2-Dichloropropane	ND		250	ppbv	500	3/18/2021 07:14 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	3/18/2021 07:14 AM
1,3-Butadiene	ND		100	ppbv	500	3/18/2021 07:14 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	3/18/2021 07:14 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	3/18/2021 07:14 AM
1,4-Dioxane	ND		500	ppbv	500	3/18/2021 07:14 AM
2-Butanone	ND		500	ppbv	500	3/18/2021 07:14 AM
2-Hexanone	ND		500	ppbv	500	3/18/2021 07:14 AM
2-Propanol	ND		500	ppbv	500	3/18/2021 07:14 AM
4-Ethyltoluene	ND		250	ppbv	500	3/18/2021 07:14 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	3/18/2021 07:14 AM
Acetone	ND		500	ppbv	500	3/18/2021 07:14 AM
Benzene	**270**		**250**	**ppbv**	500	3/18/2021 07:14 AM
Benzyl chloride	ND		500	ppbv	500	3/18/2021 07:14 AM
Bromodichloromethane	ND		100	ppbv	500	3/18/2021 07:14 AM
Bromoform	ND		250	ppbv	500	3/18/2021 07:14 AM
Bromomethane	ND		250	ppbv	500	3/18/2021 07:14 AM
Carbon disulfide	ND		250	ppbv	500	3/18/2021 07:14 AM
Carbon tetrachloride	ND		250	ppbv	500	3/18/2021 07:14 AM
Chlorobenzene	ND		250	ppbv	500	3/18/2021 07:14 AM
Chloroethane	ND		250	ppbv	500	3/18/2021 07:14 AM
Chloroform	ND		100	ppbv	500	3/18/2021 07:14 AM
Chloromethane	ND		250	ppbv	500	3/18/2021 07:14 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	3/18/2021 07:14 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	3/18/2021 07:14 AM
Cumene	ND		250	ppbv	500	3/18/2021 07:14 AM
Cyclohexane	**11,000**		**250**	**ppbv**	500	3/18/2021 07:14 AM
Dibromochloromethane	ND		250	ppbv	500	3/18/2021 07:14 AM
Dichlorodifluoromethane	ND		250	ppbv	500	3/18/2021 07:14 AM

Note:

ALS Environmental

Date: *25-Mar-21*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820
Sample ID: West Baker Furnace **Lab ID:** 21030820-01
Collection Date: 3/5/2021 09:25 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	3/18/2021 07:14 AM
Ethylbenzene	ND		250	ppbv	500	3/18/2021 07:14 AM
Freon 113	ND		250	ppbv	500	3/18/2021 07:14 AM
Freon 114	ND		250	ppbv	500	3/18/2021 07:14 AM
Heptane	**7,200**		**250**	**ppbv**	500	3/18/2021 07:14 AM
Hexachlorobutadiene	ND		100	ppbv	500	3/18/2021 07:14 AM
Hexane	**17,000**		**2,500**	**ppbv**	5000	3/18/2021 07:59 AM
m,p-Xylene	ND		250	ppbv	500	3/18/2021 07:14 AM
Methylene chloride	ND		1,000	ppbv	500	3/18/2021 07:14 AM
MTBE	ND		250	ppbv	500	3/18/2021 07:14 AM
Naphthalene	ND		100	ppbv	500	3/18/2021 07:14 AM
o-Xylene	ND		250	ppbv	500	3/18/2021 07:14 AM
Propene	ND		250	ppbv	500	3/18/2021 07:14 AM
Styrene	ND		250	ppbv	500	3/18/2021 07:14 AM
Tetrachloroethene	ND		250	ppbv	500	3/18/2021 07:14 AM
Tetrahydrofuran	ND		250	ppbv	500	3/18/2021 07:14 AM
Toluene	ND		250	ppbv	500	3/18/2021 07:14 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	3/18/2021 07:14 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	3/18/2021 07:14 AM
Trichloroethene	ND		100	ppbv	500	3/18/2021 07:14 AM
Trichlorofluoromethane	ND		250	ppbv	500	3/18/2021 07:14 AM
Vinyl acetate	ND		250	ppbv	500	3/18/2021 07:14 AM
Vinyl chloride	ND		250	ppbv	500	3/18/2021 07:14 AM
Surr: Bromofluorobenzene	*89.6*		*60-140*	*%REC*	500	3/18/2021 07:14 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	3/18/2021 07:14 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	3/18/2021 07:14 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	3/18/2021 07:14 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	3/18/2021 07:14 AM
1,1-Dichloroethene	ND		991	µg/m3	500	3/18/2021 07:14 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	3/18/2021 07:14 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	3/18/2021 07:14 AM
1,2-Dibromoethane	ND		768	µg/m3	500	3/18/2021 07:14 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	3/18/2021 07:14 AM
1,2-Dichloroethane	ND		405	µg/m3	500	3/18/2021 07:14 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	3/18/2021 07:14 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	3/18/2021 07:14 AM
1,3-Butadiene	ND		221	µg/m3	500	3/18/2021 07:14 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	3/18/2021 07:14 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	3/18/2021 07:14 AM

Note:

ALS Environmental

Date: *25-Mar-21*

Client: EarthCon

Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820

Sample ID: West Baker Furnace **Lab ID:** 21030820-01

Collection Date: 3/5/2021 09:25 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	3/18/2021 07:14 AM
2-Butanone	ND		1,470	µg/m3	500	3/18/2021 07:14 AM
2-Hexanone	ND		2,050	µg/m3	500	3/18/2021 07:14 AM
2-Propanol	ND		1,230	µg/m3	500	3/18/2021 07:14 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	3/18/2021 07:14 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	3/18/2021 07:14 AM
Acetone	ND		1,190	µg/m3	500	3/18/2021 07:14 AM
Benzene	**863**		**799**	**µg/m3**	500	3/18/2021 07:14 AM
Benzyl chloride	ND		2,590	µg/m3	500	3/18/2021 07:14 AM
Bromodichloromethane	ND		670	µg/m3	500	3/18/2021 07:14 AM
Bromoform	ND		2,580	µg/m3	500	3/18/2021 07:14 AM
Bromomethane	ND		971	µg/m3	500	3/18/2021 07:14 AM
Carbon disulfide	ND		778	µg/m3	500	3/18/2021 07:14 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	3/18/2021 07:14 AM
Chlorobenzene	ND		1,150	µg/m3	500	3/18/2021 07:14 AM
Chloroethane	ND		660	µg/m3	500	3/18/2021 07:14 AM
Chloroform	ND		488	µg/m3	500	3/18/2021 07:14 AM
Chloromethane	ND		516	µg/m3	500	3/18/2021 07:14 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	3/18/2021 07:14 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	3/18/2021 07:14 AM
Cumene	ND		1,230	µg/m3	500	3/18/2021 07:14 AM
Cyclohexane	**38,900**		**861**	**µg/m3**	500	3/18/2021 07:14 AM
Dibromochloromethane	ND		2,130	µg/m3	500	3/18/2021 07:14 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	3/18/2021 07:14 AM
Ethyl acetate	ND		901	µg/m3	500	3/18/2021 07:14 AM
Ethylbenzene	ND		1,090	µg/m3	500	3/18/2021 07:14 AM
Freon 113	ND		1,920	µg/m3	500	3/18/2021 07:14 AM
Freon 114	ND		1,750	µg/m3	500	3/18/2021 07:14 AM
Heptane	**29,500**		**1,020**	**µg/m3**	500	3/18/2021 07:14 AM
Hexachlorobutadiene	ND		1,070	µg/m3	500	3/18/2021 07:14 AM
Hexane	**59,200**		**8,810**	**µg/m3**	5000	3/18/2021 07:59 AM
m,p-Xylene	ND		1,090	µg/m3	500	3/18/2021 07:14 AM
Methylene chloride	ND		3,500	µg/m3	500	3/18/2021 07:14 AM
MTBE	ND		901	µg/m3	500	3/18/2021 07:14 AM
Naphthalene	ND		524	µg/m3	500	3/18/2021 07:14 AM
o-Xylene	ND		1,090	µg/m3	500	3/18/2021 07:14 AM
Propene	ND		430	µg/m3	500	3/18/2021 07:14 AM
Styrene	ND		1,060	µg/m3	500	3/18/2021 07:14 AM
Tetrachloroethene	ND		1,700	µg/m3	500	3/18/2021 07:14 AM
Tetrahydrofuran	ND		737	µg/m3	500	3/18/2021 07:14 AM

Note:

ALS Environmental

Date: *25-Mar-21*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820
Sample ID: West Baker Furnace **Lab ID:** 21030820-01
Collection Date: 3/5/2021 09:25 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	3/18/2021 07:14 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	3/18/2021 07:14 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	3/18/2021 07:14 AM
Trichloroethene	ND		537	µg/m3	500	3/18/2021 07:14 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	3/18/2021 07:14 AM
Vinyl acetate	ND		880	µg/m3	500	3/18/2021 07:14 AM
Vinyl chloride	ND		639	µg/m3	500	3/18/2021 07:14 AM
Surr: Bromofluorobenzene	*89.6*		*60-140*	*%REC*	500	3/18/2021 07:14 AM

Note:

ALS Environmental

Date: *25-Mar-21*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820
Sample ID: East Baker Furnace **Lab ID:** 21030820-02
Collection Date: 3/5/2021 09:35 AM **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	3/18/2021 08:44 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	3/18/2021 08:44 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	3/18/2021 08:44 AM
1,1-Dichloroethane	ND		250	ppbv	500	3/18/2021 08:44 AM
1,1-Dichloroethene	ND		250	ppbv	500	3/18/2021 08:44 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	3/18/2021 08:44 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	3/18/2021 08:44 AM
1,2-Dibromoethane	ND		100	ppbv	500	3/18/2021 08:44 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	3/18/2021 08:44 AM
1,2-Dichloroethane	ND		100	ppbv	500	3/18/2021 08:44 AM
1,2-Dichloropropane	ND		250	ppbv	500	3/18/2021 08:44 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	3/18/2021 08:44 AM
1,3-Butadiene	ND		100	ppbv	500	3/18/2021 08:44 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	3/18/2021 08:44 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	3/18/2021 08:44 AM
1,4-Dioxane	ND		500	ppbv	500	3/18/2021 08:44 AM
2-Butanone	ND		500	ppbv	500	3/18/2021 08:44 AM
2-Hexanone	ND		500	ppbv	500	3/18/2021 08:44 AM
2-Propanol	ND		500	ppbv	500	3/18/2021 08:44 AM
4-Ethyltoluene	ND		250	ppbv	500	3/18/2021 08:44 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	3/18/2021 08:44 AM
Acetone	ND		500	ppbv	500	3/18/2021 08:44 AM
Benzene	**250**		**250**	**ppbv**	500	3/18/2021 08:44 AM
Benzyl chloride	ND		500	ppbv	500	3/18/2021 08:44 AM
Bromodichloromethane	ND		100	ppbv	500	3/18/2021 08:44 AM
Bromoform	ND		250	ppbv	500	3/18/2021 08:44 AM
Bromomethane	ND		250	ppbv	500	3/18/2021 08:44 AM
Carbon disulfide	ND		250	ppbv	500	3/18/2021 08:44 AM
Carbon tetrachloride	ND		250	ppbv	500	3/18/2021 08:44 AM
Chlorobenzene	ND		250	ppbv	500	3/18/2021 08:44 AM
Chloroethane	ND		250	ppbv	500	3/18/2021 08:44 AM
Chloroform	ND		100	ppbv	500	3/18/2021 08:44 AM
Chloromethane	ND		250	ppbv	500	3/18/2021 08:44 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	3/18/2021 08:44 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	3/18/2021 08:44 AM
Cumene	ND		250	ppbv	500	3/18/2021 08:44 AM
Cyclohexane	**8,900**		**250**	**ppbv**	500	3/18/2021 08:44 AM
Dibromochloromethane	ND		250	ppbv	500	3/18/2021 08:44 AM
Dichlorodifluoromethane	ND		250	ppbv	500	3/18/2021 08:44 AM

Note:

ALS Environmental

Date: *25-Mar-21*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820
Sample ID: East Baker Furnace **Lab ID:** 21030820-02
Collection Date: 3/5/2021 09:35 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	3/18/2021 08:44 AM
Ethylbenzene	ND		250	ppbv	500	3/18/2021 08:44 AM
Freon 113	ND		250	ppbv	500	3/18/2021 08:44 AM
Freon 114	ND		250	ppbv	500	3/18/2021 08:44 AM
Heptane	**6,900**		**250**	**ppbv**	500	3/18/2021 08:44 AM
Hexachlorobutadiene	ND		100	ppbv	500	3/18/2021 08:44 AM
Hexane	**14,000**		**2,500**	**ppbv**	5000	3/19/2021 11:45 AM
m,p-Xylene	ND		250	ppbv	500	3/18/2021 08:44 AM
Methylene chloride	ND		1,000	ppbv	500	3/18/2021 08:44 AM
MTBE	ND		250	ppbv	500	3/18/2021 08:44 AM
Naphthalene	ND		100	ppbv	500	3/18/2021 08:44 AM
o-Xylene	ND		250	ppbv	500	3/18/2021 08:44 AM
Propene	ND		250	ppbv	500	3/18/2021 08:44 AM
Styrene	ND		250	ppbv	500	3/18/2021 08:44 AM
Tetrachloroethene	ND		250	ppbv	500	3/18/2021 08:44 AM
Tetrahydrofuran	ND		250	ppbv	500	3/18/2021 08:44 AM
Toluene	ND		250	ppbv	500	3/18/2021 08:44 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	3/18/2021 08:44 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	3/18/2021 08:44 AM
Trichloroethene	ND		100	ppbv	500	3/18/2021 08:44 AM
Trichlorofluoromethane	ND		250	ppbv	500	3/18/2021 08:44 AM
Vinyl acetate	ND		250	ppbv	500	3/18/2021 08:44 AM
Vinyl chloride	ND		250	ppbv	500	3/18/2021 08:44 AM
Surr: Bromofluorobenzene	*47,000*	S	*60-140*	*%REC*	500	3/18/2021 08:44 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	3/18/2021 08:44 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	3/18/2021 08:44 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	3/18/2021 08:44 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	3/18/2021 08:44 AM
1,1-Dichloroethene	ND		991	µg/m3	500	3/18/2021 08:44 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	3/18/2021 08:44 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	3/18/2021 08:44 AM
1,2-Dibromoethane	ND		768	µg/m3	500	3/18/2021 08:44 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	3/18/2021 08:44 AM
1,2-Dichloroethane	ND		405	µg/m3	500	3/18/2021 08:44 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	3/18/2021 08:44 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	3/18/2021 08:44 AM
1,3-Butadiene	ND		221	µg/m3	500	3/18/2021 08:44 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	3/18/2021 08:44 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	3/18/2021 08:44 AM

Note:

ALS Environmental

Date: *25-Mar-21*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820
Sample ID: East Baker Furnace **Lab ID:** 21030820-02
Collection Date: 3/5/2021 09:35 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	3/18/2021 08:44 AM
2-Butanone	ND		1,470	µg/m3	500	3/18/2021 08:44 AM
2-Hexanone	ND		2,050	µg/m3	500	3/18/2021 08:44 AM
2-Propanol	ND		1,230	µg/m3	500	3/18/2021 08:44 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	3/18/2021 08:44 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	3/18/2021 08:44 AM
Acetone	ND		1,190	µg/m3	500	3/18/2021 08:44 AM
Benzene	ND		799	µg/m3	500	3/18/2021 08:44 AM
Benzyl chloride	ND		2,590	µg/m3	500	3/18/2021 08:44 AM
Bromodichloromethane	ND		670	µg/m3	500	3/18/2021 08:44 AM
Bromoform	ND		2,580	µg/m3	500	3/18/2021 08:44 AM
Bromomethane	ND		971	µg/m3	500	3/18/2021 08:44 AM
Carbon disulfide	ND		778	µg/m3	500	3/18/2021 08:44 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	3/18/2021 08:44 AM
Chlorobenzene	ND		1,150	µg/m3	500	3/18/2021 08:44 AM
Chloroethane	ND		660	µg/m3	500	3/18/2021 08:44 AM
Chloroform	ND		488	µg/m3	500	3/18/2021 08:44 AM
Chloromethane	ND		516	µg/m3	500	3/18/2021 08:44 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	3/18/2021 08:44 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	3/18/2021 08:44 AM
Cumene	ND		1,230	µg/m3	500	3/18/2021 08:44 AM
Cyclohexane	**30,700**		**861**	**µg/m3**	500	3/18/2021 08:44 AM
Dibromochloromethane	ND		2,130	µg/m3	500	3/18/2021 08:44 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	3/18/2021 08:44 AM
Ethyl acetate	ND		901	µg/m3	500	3/18/2021 08:44 AM
Ethylbenzene	ND		1,090	µg/m3	500	3/18/2021 08:44 AM
Freon 113	ND		1,920	µg/m3	500	3/18/2021 08:44 AM
Freon 114	ND		1,750	µg/m3	500	3/18/2021 08:44 AM
Heptane	**28,100**		**1,020**	**µg/m3**	500	3/18/2021 08:44 AM
Hexachlorobutadiene	ND		1,070	µg/m3	500	3/18/2021 08:44 AM
Hexane	**48,300**		**8,810**	**µg/m3**	5000	3/19/2021 11:45 AM
m,p-Xylene	ND		1,090	µg/m3	500	3/18/2021 08:44 AM
Methylene chloride	ND		3,500	µg/m3	500	3/18/2021 08:44 AM
MTBE	ND		901	µg/m3	500	3/18/2021 08:44 AM
Naphthalene	ND		524	µg/m3	500	3/18/2021 08:44 AM
o-Xylene	ND		1,090	µg/m3	500	3/18/2021 08:44 AM
Propene	ND		430	µg/m3	500	3/18/2021 08:44 AM
Styrene	ND		1,060	µg/m3	500	3/18/2021 08:44 AM
Tetrachloroethene	ND		1,700	µg/m3	500	3/18/2021 08:44 AM
Tetrahydrofuran	ND		737	µg/m3	500	3/18/2021 08:44 AM

Note:

ALS Environmental

Date: *25-Mar-21*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/ **Work Order:** 21030820
Sample ID: East Baker Furnace **Lab ID:** 21030820-02
Collection Date: 3/5/2021 09:35 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	3/18/2021 08:44 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	3/18/2021 08:44 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	3/18/2021 08:44 AM
Trichloroethene	ND		537	µg/m3	500	3/18/2021 08:44 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	3/18/2021 08:44 AM
Vinyl acetate	ND		880	µg/m3	500	3/18/2021 08:44 AM
Vinyl chloride	ND		639	µg/m3	500	3/18/2021 08:44 AM
Surr: Bromofluorobenzene	*47,000*	S	*60-140*	*%REC*	500	3/18/2021 08:44 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 West Baker Furnace
ALS Sample # 21030820-01a
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	101327	PPBV
	TVOC**	357110	ug/m3

Client Sample ID: TWP East Baker Furnace
ALS Sample # 21030820-02a
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	79148	PPBV
	TVOC**	278944	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 25-Mar-21

Client: EarthCon

Work Order: 21030820

Project: TWP Roswell Station #9; SVE Quarterly Sampling/

QC BATCH REPORT

Batch ID: **R189854** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **MBLK-R189854** Units: **ppbv** Analysis Date: **3/17/2021 02:26 PM**

Client ID: Run ID: **VMS4_210317A** SeqNo: **2419004** 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	0.20								
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	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	1.0								
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	1.0								
Bromodichloromethane	ND	0.20								
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: 21030820
Project: TWP Roswell Station #9; SVE Quarterly Sampling/

QC BATCH REPORT

Batch ID: **R189854** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50					
Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.20					
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	*9.47*	0	*10*	0	*94.7*	*60-140*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21030820
Project: TWP Roswell Station #9; SVE Quarterly Sampling/

QC BATCH REPORT

Batch ID: **R189854** Instrument ID **VMS4** Method: **ETO-15**

LCS Sample ID: **LCS-R189854** Units: **ppbv** Analysis Date: **3/17/2021 01:43 PM**
Client ID: Run ID: **VMS4_210317A** SeqNo: **2419003** 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	9.85	0.50	10	0	98.5	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.94	0.50	10	0	99.4	60-140	0			
1,1,2-Trichloroethane	9.96	0.20	10	0	99.6	60-140	0			
1,1-Dichloroethane	10.3	0.50	10	0	103	60-140	0			
1,1-Dichloroethene	10.58	0.50	10	0	106	60-140	0			
1,2,4-Trichlorobenzene	7.12	0.50	10	0	71.2	49.3-150	0			
1,2,4-Trimethylbenzene	10.19	0.50	10	0	102	50.1-162	0			
1,2-Dibromoethane	10.14	0.20	10	0	101	60-140	0			
1,2-Dichlorobenzene	8.99	0.50	10	0	89.9	41.9-141	0			
1,2-Dichloroethane	10.33	0.20	10	0	103	60-140	0			
1,2-Dichloropropane	10.64	0.50	10	0	106	60-140	0			
1,3,5-Trimethylbenzene	9.85	0.50	10	0	98.5	60-140	0			
1,3-Butadiene	11.08	0.20	10	0	111	50.6-140	0			
1,3-Dichlorobenzene	9.11	0.50	10	0	91.1	60-140	0			
1,4-Dichlorobenzene	9.11	0.20	10	0	91.1	55.1-145	0			
1,4-Dioxane	8.92	1.0	10	0	89.2	60-140	0			
2-Butanone	10.78	1.0	10	0	108	60-140	0			
2-Hexanone	10.57	1.0	10	0	106	56.2-162	0			
2-Propanol	11.12	1.0	10	0	111	60-140	0			
4-Ethyltoluene	10.5	0.50	10	0	105	60-140	0			
4-Methyl-2-pentanone	11.65	1.0	10	0	116	60-140	0			
Acetone	10.89	1.0	10	0	109	60-140	0			
Benzene	10.06	0.50	10	0	101	60-140	0			
Benzyl chloride	10.02	1.0	10	0	100	31.9-174	0			
Bromodichloromethane	10.11	0.20	10	0	101	60-140	0			
Bromoform	9.6	0.50	10	0	96	60-140	0			
Bromomethane	10.2	0.50	10	0	102	60-140	0			
Carbon disulfide	10.17	0.50	10	0	102	60-140	0			
Carbon tetrachloride	9.76	0.50	10	0	97.6	60-140	0			
Chlorobenzene	9.42	0.50	10	0	94.2	60-140	0			
Chloroethane	10.12	0.50	10	0	101	60-140	0			
Chloroform	9.93	0.20	10	0	99.3	60-140	0			
Chloromethane	10.77	0.50	10	0	108	60-140	0			
cis-1,2-Dichloroethene	11.48	0.50	10	0	115	60-140	0			
cis-1,3-Dichloropropene	10.9	0.50	10	0	109	60-140	0			
Cumene	10.1	0.50	10	0	101	60-140	0			
Cyclohexane	10.23	0.50	10	0	102	60-140	0			
Dibromochloromethane	10.07	0.50	10	0	101	60-140	0			
Dichlorodifluoromethane	9.84	0.50	10	0	98.4	60-140	0			
Ethyl acetate	10.94	0.50	10	0	109	60-140	0			
Ethylbenzene	10.11	0.50	10	0	101	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: 21030820
Project: TWP Roswell Station #9; SVE Quarterly Sampling/

QC BATCH REPORT

Batch ID: **R189854** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	9.91	0.50	10	0	99.1	60-140	0
Heptane	11.26	0.50	10	0	113	60-140	0
Hexachlorobutadiene	8.3	0.20	10	0	83	60-140	0
Hexane	10.59	0.50	10	0	106	60-140	0
m,p-Xylene	20.66	0.50	20	0	103	60-140	0
Methylene chloride	9.9	2.0	10	0	99	60-140	0
MTBE	10.51	0.50	10	0	105	60.8-151	0
Naphthalene	6.47	0.20	10	0	64.7	53.1-152	0
o-Xylene	10.25	0.50	10	0	102	60-140	0
Propene	10.65	0.50	10	0	106	34.4-139	0
Styrene	10.34	0.50	10	0	103	60-140	0
Tetrachloroethene	9.5	0.50	10	0	95	60-140	0
Tetrahydrofuran	11.42	0.50	10	0	114	60-140	0
Toluene	10.34	0.50	10	0	103	60-140	0
trans-1,2-Dichloroethene	10.04	0.50	10	0	100	60-140	0
trans-1,3-Dichloropropene	10.77	0.50	10	0	108	60-140	0
Trichloroethene	9.82	0.20	10	0	98.2	60-140	0
Trichlorofluoromethane	11.32	0.50	10	0	113	60-140	0
Vinyl acetate	12.57	0.50	10	0	126	48.4-145	0
Vinyl chloride	10.81	0.50	10	0	108	60-140	0
Surr: Bromofluorobenzene	*10.06*	0	*10*	0	*101*	*60-140*	0

The following samples were analyzed in this batch: 21030820-01A 21030820-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21030820
Project: TWP Roswell Station #9; SVE Quarterly Sampling/

QC BATCH REPORT

Batch ID: **R189947** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **MBLK-R189947** Units: **ppbv** Analysis Date: **3/19/2021 11:01 AM**
Client ID: Run ID: **VMS4_210319A** SeqNo: **2421229** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hexane	ND	0.50								
Surr: Bromofluorobenzene	*9.38*	0	*10*	0	*93.8*	*60-140*	0			

LCS Sample ID: **LCS-R189947** Units: **ppbv** Analysis Date: **3/19/2021 10:17 AM**
Client ID: Run ID: **VMS4_210319A** SeqNo: **2421228** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Hexane	8	0.50	10	0	80	60-140	0			
Surr: Bromofluorobenzene	*9.4*	0	*10*	0	*94*	*60-140*	0			

The following samples were analyzed in this batch: 21030820-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 25-Mar-21

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling/Q1/
WorkOrder: **21030820**

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: **11-Mar-21 15:58**

Work Order: **21030820** Received by: **SNH**

Checklist completed by Jan Wilcox 11-Mar-21 Reviewed by: Shawn Smythe 12-Mar-21
eSignature Date eSignature Date

Matrices: air
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 ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:			
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-Jun-2021

Sofie Weber-Snapp
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Re: **SVE Quarterly Sampling/Q2/2021** Work Order: **21060686**

Dear Sofie,

ALS Environmental received 2 samples on 15-Jun-2021 03:30 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 22.

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

Report of Laboratory Analysis

ALS Environmental

Date: 29-Jun-21

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021
Work Order: **21060686**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21060686-01	West Baker Furnace	Air		6/9/2021 12:31	6/15/2021 15:30	☐
21060686-02	East Baker Furnace	Air		6/9/2021 12:46	6/15/2021 15:30	☐

ALS Environmental

Date: 29-Jun-21

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021
Work Order: 21060686

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-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: West Baker Furnace **Lab ID:** 21060686-01
Collection Date: 6/9/2021 12:31 PM **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	6/26/2021 02:58 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	6/26/2021 02:58 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	6/26/2021 02:58 AM
1,1-Dichloroethane	ND		250	ppbv	500	6/26/2021 02:58 AM
1,1-Dichloroethene	ND		250	ppbv	500	6/26/2021 02:58 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	6/26/2021 02:58 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	6/26/2021 02:58 AM
1,2-Dibromoethane	ND		100	ppbv	500	6/26/2021 02:58 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	6/26/2021 02:58 AM
1,2-Dichloroethane	ND		100	ppbv	500	6/26/2021 02:58 AM
1,2-Dichloropropane	ND		250	ppbv	500	6/26/2021 02:58 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	6/26/2021 02:58 AM
1,3-Butadiene	ND		100	ppbv	500	6/26/2021 02:58 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	6/26/2021 02:58 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	6/26/2021 02:58 AM
1,4-Dioxane	ND		500	ppbv	500	6/26/2021 02:58 AM
2-Butanone	ND		500	ppbv	500	6/26/2021 02:58 AM
2-Hexanone	ND		500	ppbv	500	6/26/2021 02:58 AM
2-Propanol	ND		500	ppbv	500	6/26/2021 02:58 AM
4-Ethyltoluene	ND		250	ppbv	500	6/26/2021 02:58 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	6/26/2021 02:58 AM
Acetone	ND		500	ppbv	500	6/26/2021 02:58 AM
Benzene	**360**		**250**	**ppbv**	500	6/26/2021 02:58 AM
Benzyl chloride	ND		500	ppbv	500	6/26/2021 02:58 AM
Bromodichloromethane	ND		100	ppbv	500	6/26/2021 02:58 AM
Bromoform	ND		250	ppbv	500	6/26/2021 02:58 AM
Bromomethane	ND		250	ppbv	500	6/26/2021 02:58 AM
Carbon disulfide	ND		250	ppbv	500	6/26/2021 02:58 AM
Carbon tetrachloride	ND		250	ppbv	500	6/26/2021 02:58 AM
Chlorobenzene	ND		250	ppbv	500	6/26/2021 02:58 AM
Chloroethane	ND		250	ppbv	500	6/26/2021 02:58 AM
Chloroform	ND		100	ppbv	500	6/26/2021 02:58 AM
Chloromethane	ND		250	ppbv	500	6/26/2021 02:58 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	6/26/2021 02:58 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	6/26/2021 02:58 AM
Cumene	ND		250	ppbv	500	6/26/2021 02:58 AM
Cyclohexane	**19,000**		**2,500**	**ppbv**	5000	6/29/2021 12:06 PM
Dibromochloromethane	ND		250	ppbv	500	6/26/2021 02:58 AM
Dichlorodifluoromethane	ND		250	ppbv	500	6/26/2021 02:58 AM

Note:

ALS Environmental

Date: *29-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: West Baker Furnace **Lab ID:** 21060686-01
Collection Date: 6/9/2021 12:31 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	6/26/2021 02:58 AM
Ethylbenzene	ND		250	ppbv	500	6/26/2021 02:58 AM
Freon 113	ND		250	ppbv	500	6/26/2021 02:58 AM
Freon 114	ND		250	ppbv	500	6/26/2021 02:58 AM
Heptane	**15,000**		**2,500**	**ppbv**	5000	6/29/2021 12:06 PM
Hexachlorobutadiene	ND		100	ppbv	500	6/26/2021 02:58 AM
Hexane	**25,000**		**2,500**	**ppbv**	5000	6/29/2021 12:06 PM
m,p-Xylene	**270**		**250**	**ppbv**	500	6/26/2021 02:58 AM
Methylene chloride	ND		1,000	ppbv	500	6/26/2021 02:58 AM
MTBE	ND		250	ppbv	500	6/26/2021 02:58 AM
Naphthalene	ND		100	ppbv	500	6/26/2021 02:58 AM
o-Xylene	ND		250	ppbv	500	6/26/2021 02:58 AM
Propene	ND		250	ppbv	500	6/26/2021 02:58 AM
Styrene	ND		250	ppbv	500	6/26/2021 02:58 AM
Tetrachloroethene	ND		250	ppbv	500	6/26/2021 02:58 AM
Tetrahydrofuran	ND		250	ppbv	500	6/26/2021 02:58 AM
Toluene	ND		250	ppbv	500	6/26/2021 02:58 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	6/26/2021 02:58 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	6/26/2021 02:58 AM
Trichloroethene	ND		100	ppbv	500	6/26/2021 02:58 AM
Trichlorofluoromethane	ND		250	ppbv	500	6/26/2021 02:58 AM
Vinyl acetate	ND		250	ppbv	500	6/26/2021 02:58 AM
Vinyl chloride	ND		250	ppbv	500	6/26/2021 02:58 AM
Surr: Bromofluorobenzene	*102*		*60-140*	*%REC*	500	6/26/2021 02:58 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	6/26/2021 02:58 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	6/26/2021 02:58 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	6/26/2021 02:58 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	6/26/2021 02:58 AM
1,1-Dichloroethene	ND		991	µg/m3	500	6/26/2021 02:58 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	6/26/2021 02:58 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	6/26/2021 02:58 AM
1,2-Dibromoethane	ND		768	µg/m3	500	6/26/2021 02:58 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	6/26/2021 02:58 AM
1,2-Dichloroethane	ND		405	µg/m3	500	6/26/2021 02:58 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	6/26/2021 02:58 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	6/26/2021 02:58 AM
1,3-Butadiene	ND		221	µg/m3	500	6/26/2021 02:58 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	6/26/2021 02:58 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	6/26/2021 02:58 AM

Note:

ALS Environmental

Date: *29-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: West Baker Furnace **Lab ID:** 21060686-01
Collection Date: 6/9/2021 12:31 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	6/26/2021 02:58 AM
2-Butanone	ND		1,470	µg/m3	500	6/26/2021 02:58 AM
2-Hexanone	ND		2,050	µg/m3	500	6/26/2021 02:58 AM
2-Propanol	ND		1,230	µg/m3	500	6/26/2021 02:58 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	6/26/2021 02:58 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	6/26/2021 02:58 AM
Acetone	ND		1,190	µg/m3	500	6/26/2021 02:58 AM
Benzene	**1,130**		**799**	**µg/m3**	500	6/26/2021 02:58 AM
Benzyl chloride	ND		2,590	µg/m3	500	6/26/2021 02:58 AM
Bromodichloromethane	ND		670	µg/m3	500	6/26/2021 02:58 AM
Bromoform	ND		2,580	µg/m3	500	6/26/2021 02:58 AM
Bromomethane	ND		971	µg/m3	500	6/26/2021 02:58 AM
Carbon disulfide	ND		778	µg/m3	500	6/26/2021 02:58 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	6/26/2021 02:58 AM
Chlorobenzene	ND		1,150	µg/m3	500	6/26/2021 02:58 AM
Chloroethane	ND		660	µg/m3	500	6/26/2021 02:58 AM
Chloroform	ND		488	µg/m3	500	6/26/2021 02:58 AM
Chloromethane	ND		516	µg/m3	500	6/26/2021 02:58 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	6/26/2021 02:58 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/26/2021 02:58 AM
Cumene	ND		1,230	µg/m3	500	6/26/2021 02:58 AM
Cyclohexane	**66,800**		**8,610**	**µg/m3**	5000	6/29/2021 12:06 PM
Dibromochloromethane	ND		2,130	µg/m3	500	6/26/2021 02:58 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	6/26/2021 02:58 AM
Ethyl acetate	ND		901	µg/m3	500	6/26/2021 02:58 AM
Ethylbenzene	ND		1,090	µg/m3	500	6/26/2021 02:58 AM
Freon 113	ND		1,920	µg/m3	500	6/26/2021 02:58 AM
Freon 114	ND		1,750	µg/m3	500	6/26/2021 02:58 AM
Heptane	**62,900**		**10,200**	**µg/m3**	5000	6/29/2021 12:06 PM
Hexachlorobutadiene	ND		1,070	µg/m3	500	6/26/2021 02:58 AM
Hexane	**89,300**		**8,810**	**µg/m3**	5000	6/29/2021 12:06 PM
m,p-Xylene	**1,170**		**1,090**	**µg/m3**	500	6/26/2021 02:58 AM
Methylene chloride	ND		3,500	µg/m3	500	6/26/2021 02:58 AM
MTBE	ND		901	µg/m3	500	6/26/2021 02:58 AM
Naphthalene	ND		524	µg/m3	500	6/26/2021 02:58 AM
o-Xylene	ND		1,090	µg/m3	500	6/26/2021 02:58 AM
Propene	ND		430	µg/m3	500	6/26/2021 02:58 AM
Styrene	ND		1,060	µg/m3	500	6/26/2021 02:58 AM
Tetrachloroethene	ND		1,700	µg/m3	500	6/26/2021 02:58 AM
Tetrahydrofuran	ND		737	µg/m3	500	6/26/2021 02:58 AM

Note:

ALS Environmental

Date: *29-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: West Baker Furnace **Lab ID:** 21060686-01
Collection Date: 6/9/2021 12:31 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	6/26/2021 02:58 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	6/26/2021 02:58 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/26/2021 02:58 AM
Trichloroethene	ND		537	µg/m3	500	6/26/2021 02:58 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	6/26/2021 02:58 AM
Vinyl acetate	ND		880	µg/m3	500	6/26/2021 02:58 AM
Vinyl chloride	ND		639	µg/m3	500	6/26/2021 02:58 AM
Surr: Bromofluorobenzene	*102*		*60-140*	*%REC*	500	6/26/2021 02:58 AM

Note:

ALS Environmental

Date: *29-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: East Baker Furnace **Lab ID:** 21060686-02
Collection Date: 6/9/2021 12:46 PM **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	6/26/2021 03:41 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	6/26/2021 03:41 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	6/26/2021 03:41 AM
1,1-Dichloroethane	ND		250	ppbv	500	6/26/2021 03:41 AM
1,1-Dichloroethene	ND		250	ppbv	500	6/26/2021 03:41 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	6/26/2021 03:41 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	6/26/2021 03:41 AM
1,2-Dibromoethane	ND		100	ppbv	500	6/26/2021 03:41 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	6/26/2021 03:41 AM
1,2-Dichloroethane	ND		100	ppbv	500	6/26/2021 03:41 AM
1,2-Dichloropropane	ND		250	ppbv	500	6/26/2021 03:41 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	6/26/2021 03:41 AM
1,3-Butadiene	ND		100	ppbv	500	6/26/2021 03:41 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	6/26/2021 03:41 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	6/26/2021 03:41 AM
1,4-Dioxane	ND		500	ppbv	500	6/26/2021 03:41 AM
2-Butanone	ND		500	ppbv	500	6/26/2021 03:41 AM
2-Hexanone	ND		500	ppbv	500	6/26/2021 03:41 AM
2-Propanol	ND		500	ppbv	500	6/26/2021 03:41 AM
4-Ethyltoluene	ND		250	ppbv	500	6/26/2021 03:41 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	6/26/2021 03:41 AM
Acetone	ND		500	ppbv	500	6/26/2021 03:41 AM
Benzene	**250**		**250**	**ppbv**	500	6/26/2021 03:41 AM
Benzyl chloride	ND		500	ppbv	500	6/26/2021 03:41 AM
Bromodichloromethane	ND		100	ppbv	500	6/26/2021 03:41 AM
Bromoform	ND		250	ppbv	500	6/26/2021 03:41 AM
Bromomethane	ND		250	ppbv	500	6/26/2021 03:41 AM
Carbon disulfide	ND		250	ppbv	500	6/26/2021 03:41 AM
Carbon tetrachloride	ND		250	ppbv	500	6/26/2021 03:41 AM
Chlorobenzene	ND		250	ppbv	500	6/26/2021 03:41 AM
Chloroethane	ND		250	ppbv	500	6/26/2021 03:41 AM
Chloroform	ND		100	ppbv	500	6/26/2021 03:41 AM
Chloromethane	ND		250	ppbv	500	6/26/2021 03:41 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	6/26/2021 03:41 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	6/26/2021 03:41 AM
Cumene	ND		250	ppbv	500	6/26/2021 03:41 AM
Cyclohexane	**11,000**		**250**	**ppbv**	500	6/26/2021 03:41 AM
Dibromochloromethane	ND		250	ppbv	500	6/26/2021 03:41 AM
Dichlorodifluoromethane	ND		250	ppbv	500	6/26/2021 03:41 AM

Note:

ALS Environmental

Date: *29-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: East Baker Furnace **Lab ID:** 21060686-02
Collection Date: 6/9/2021 12:46 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	6/26/2021 03:41 AM
Ethylbenzene	ND		250	ppbv	500	6/26/2021 03:41 AM
Freon 113	ND		250	ppbv	500	6/26/2021 03:41 AM
Freon 114	ND		250	ppbv	500	6/26/2021 03:41 AM
Heptane	**8,600**		**250**	**ppbv**	500	6/26/2021 03:41 AM
Hexachlorobutadiene	ND		100	ppbv	500	6/26/2021 03:41 AM
Hexane	**16,000**		**2,500**	**ppbv**	5000	6/26/2021 04:25 AM
m,p-Xylene	ND		250	ppbv	500	6/26/2021 03:41 AM
Methylene chloride	ND		1,000	ppbv	500	6/26/2021 03:41 AM
MTBE	ND		250	ppbv	500	6/26/2021 03:41 AM
Naphthalene	ND		100	ppbv	500	6/26/2021 03:41 AM
o-Xylene	ND		250	ppbv	500	6/26/2021 03:41 AM
Propene	ND		250	ppbv	500	6/26/2021 03:41 AM
Styrene	ND		250	ppbv	500	6/26/2021 03:41 AM
Tetrachloroethene	ND		250	ppbv	500	6/26/2021 03:41 AM
Tetrahydrofuran	ND		250	ppbv	500	6/26/2021 03:41 AM
Toluene	ND		250	ppbv	500	6/26/2021 03:41 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	6/26/2021 03:41 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	6/26/2021 03:41 AM
Trichloroethene	ND		100	ppbv	500	6/26/2021 03:41 AM
Trichlorofluoromethane	ND		250	ppbv	500	6/26/2021 03:41 AM
Vinyl acetate	ND		250	ppbv	500	6/26/2021 03:41 AM
Vinyl chloride	ND		250	ppbv	500	6/26/2021 03:41 AM
Surr: Bromofluorobenzene	*104*		*60-140*	*%REC*	500	6/26/2021 03:41 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	6/26/2021 03:41 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	6/26/2021 03:41 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	6/26/2021 03:41 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	6/26/2021 03:41 AM
1,1-Dichloroethene	ND		991	µg/m3	500	6/26/2021 03:41 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	6/26/2021 03:41 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	6/26/2021 03:41 AM
1,2-Dibromoethane	ND		768	µg/m3	500	6/26/2021 03:41 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	6/26/2021 03:41 AM
1,2-Dichloroethane	ND		405	µg/m3	500	6/26/2021 03:41 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	6/26/2021 03:41 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	6/26/2021 03:41 AM
1,3-Butadiene	ND		221	µg/m3	500	6/26/2021 03:41 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	6/26/2021 03:41 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	6/26/2021 03:41 AM

Note:

ALS Environmental

Date: *29-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: East Baker Furnace **Lab ID:** 21060686-02
Collection Date: 6/9/2021 12:46 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	6/26/2021 03:41 AM
2-Butanone	ND		1,470	µg/m3	500	6/26/2021 03:41 AM
2-Hexanone	ND		2,050	µg/m3	500	6/26/2021 03:41 AM
2-Propanol	ND		1,230	µg/m3	500	6/26/2021 03:41 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	6/26/2021 03:41 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	6/26/2021 03:41 AM
Acetone	ND		1,190	µg/m3	500	6/26/2021 03:41 AM
Benzene	ND		799	µg/m3	500	6/26/2021 03:41 AM
Benzyl chloride	ND		2,590	µg/m3	500	6/26/2021 03:41 AM
Bromodichloromethane	ND		670	µg/m3	500	6/26/2021 03:41 AM
Bromoform	ND		2,580	µg/m3	500	6/26/2021 03:41 AM
Bromomethane	ND		971	µg/m3	500	6/26/2021 03:41 AM
Carbon disulfide	ND		778	µg/m3	500	6/26/2021 03:41 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	6/26/2021 03:41 AM
Chlorobenzene	ND		1,150	µg/m3	500	6/26/2021 03:41 AM
Chloroethane	ND		660	µg/m3	500	6/26/2021 03:41 AM
Chloroform	ND		488	µg/m3	500	6/26/2021 03:41 AM
Chloromethane	ND		516	µg/m3	500	6/26/2021 03:41 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	6/26/2021 03:41 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/26/2021 03:41 AM
Cumene	ND		1,230	µg/m3	500	6/26/2021 03:41 AM
Cyclohexane	**37,000**		**861**	**µg/m3**	500	6/26/2021 03:41 AM
Dibromochloromethane	ND		2,130	µg/m3	500	6/26/2021 03:41 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	6/26/2021 03:41 AM
Ethyl acetate	ND		901	µg/m3	500	6/26/2021 03:41 AM
Ethylbenzene	ND		1,090	µg/m3	500	6/26/2021 03:41 AM
Freon 113	ND		1,920	µg/m3	500	6/26/2021 03:41 AM
Freon 114	ND		1,750	µg/m3	500	6/26/2021 03:41 AM
Heptane	**35,200**		**1,020**	**µg/m3**	500	6/26/2021 03:41 AM
Hexachlorobutadiene	ND		1,070	µg/m3	500	6/26/2021 03:41 AM
Hexane	**58,200**		**8,810**	**µg/m3**	5000	6/26/2021 04:25 AM
m,p-Xylene	ND		1,090	µg/m3	500	6/26/2021 03:41 AM
Methylene chloride	ND		3,500	µg/m3	500	6/26/2021 03:41 AM
MTBE	ND		901	µg/m3	500	6/26/2021 03:41 AM
Naphthalene	ND		524	µg/m3	500	6/26/2021 03:41 AM
o-Xylene	ND		1,090	µg/m3	500	6/26/2021 03:41 AM
Propene	ND		430	µg/m3	500	6/26/2021 03:41 AM
Styrene	ND		1,060	µg/m3	500	6/26/2021 03:41 AM
Tetrachloroethene	ND		1,700	µg/m3	500	6/26/2021 03:41 AM
Tetrahydrofuran	ND		737	µg/m3	500	6/26/2021 03:41 AM

Note:

ALS Environmental

Date: *29-Jun-21*

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021 **Work Order:** 21060686
Sample ID: East Baker Furnace **Lab ID:** 21060686-02
Collection Date: 6/9/2021 12:46 PM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	6/26/2021 03:41 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	6/26/2021 03:41 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	6/26/2021 03:41 AM
Trichloroethene	ND		537	µg/m3	500	6/26/2021 03:41 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	6/26/2021 03:41 AM
Vinyl acetate	ND		880	µg/m3	500	6/26/2021 03:41 AM
Vinyl chloride	ND		639	µg/m3	500	6/26/2021 03:41 AM
Surr: Bromofluorobenzene	*104*		*60-140*	*%REC*	500	6/26/2021 03:41 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 West Baker Furnace
ALS Sample # 21060686-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	155779	PPBV
	TVOC**	549016	ug/m3

Client Sample ID: TWP East Baker Furnace
ALS Sample # 21060686-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	91292	PPBV
	TVOC**	321744	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 29-Jun-21

Client: EarthCon

Work Order: 21060686

Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193272** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **MBLK-R193272** Units: **ppbv** Analysis Date: **6/25/2021 11:59 AM**

Client ID: Run ID: **VMS4_210625A** SeqNo: **2501646** 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	0.20								
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	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	1.0								
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	1.0								
Bromodichloromethane	ND	0.20								
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: 21060686
Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193272** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50					
Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.20					
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	*9.48*	0	*10*	0	*94.8*	*60-140*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21060686
Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193272** Instrument ID **VMS4** Method: **ETO-15**

LCS Sample ID: **LCS-R193272** Units: **ppbv** Analysis Date: **6/25/2021 11:16 AM**
Client ID: Run ID: **VMS4_210625A** SeqNo: **2501645** 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	9.52	0.50	10	0	95.2	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.12	0.50	10	0	91.2	60-140	0			
1,1,2-Trichloroethane	8.88	0.20	10	0	88.8	60-140	0			
1,1-Dichloroethane	9.38	0.50	10	0	93.8	60-140	0			
1,1-Dichloroethene	9.7	0.50	10	0	97	60-140	0			
1,2,4-Trichlorobenzene	6.83	0.50	10	0	68.3	49.3-150	0			
1,2,4-Trimethylbenzene	9.84	0.50	10	0	98.4	50.1-162	0			
1,2-Dibromoethane	9.04	0.20	10	0	90.4	60-140	0			
1,2-Dichlorobenzene	8.84	0.50	10	0	88.4	41.9-141	0			
1,2-Dichloroethane	9.84	0.20	10	0	98.4	60-140	0			
1,2-Dichloropropane	9.01	0.50	10	0	90.1	60-140	0			
1,3,5-Trimethylbenzene	9.76	0.50	10	0	97.6	60-140	0			
1,3-Butadiene	9.56	0.20	10	0	95.6	50.6-140	0			
1,3-Dichlorobenzene	8.6	0.50	10	0	86	60-140	0			
1,4-Dichlorobenzene	8.25	0.20	10	0	82.5	55.1-145	0			
1,4-Dioxane	7.43	1.0	10	0	74.3	60-140	0			
2-Butanone	9.68	1.0	10	0	96.8	60-140	0			
2-Hexanone	8.58	1.0	10	0	85.8	56.2-162	0			
2-Propanol	8.98	1.0	10	0	89.8	60-140	0			
4-Ethyltoluene	10.03	0.50	10	0	100	60-140	0			
4-Methyl-2-pentanone	10.16	1.0	10	0	102	60-140	0			
Acetone	7.43	1.0	10	0	74.3	60-140	0			
Benzene	9.19	0.50	10	0	91.9	60-140	0			
Benzyl chloride	9.18	1.0	10	0	91.8	31.9-174	0			
Bromodichloromethane	9.28	0.20	10	0	92.8	60-140	0			
Bromoform	9.57	0.50	10	0	95.7	60-140	0			
Bromomethane	8.05	0.50	10	0	80.5	60-140	0			
Carbon disulfide	9.23	0.50	10	0	92.3	60-140	0			
Carbon tetrachloride	9.65	0.50	10	0	96.5	60-140	0			
Chlorobenzene	8.83	0.50	10	0	88.3	60-140	0			
Chloroethane	8.07	0.50	10	0	80.7	60-140	0			
Chloroform	9.22	0.20	10	0	92.2	60-140	0			
Chloromethane	8.96	0.50	10	0	89.6	60-140	0			
cis-1,2-Dichloroethene	10.03	0.50	10	0	100	60-140	0			
cis-1,3-Dichloropropene	9.73	0.50	10	0	97.3	60-140	0			
Cumene	9.9	0.50	10	0	99	60-140	0			
Cyclohexane	9.5	0.50	10	0	95	60-140	0			
Dibromochloromethane	9.42	0.50	10	0	94.2	60-140	0			
Dichlorodifluoromethane	9.04	0.50	10	0	90.4	60-140	0			
Ethyl acetate	10.27	0.50	10	0	103	60-140	0			
Ethylbenzene	9.51	0.50	10	0	95.1	60-140	0			
Freon 113	9.54	0.50	10	0	95.4	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21060686
Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193272** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	8.84	0.50	10	0	88.4	60-140	0
Heptane	9.89	0.50	10	0	98.9	60-140	0
Hexachlorobutadiene	9.21	0.20	10	0	92.1	60-140	0
Hexane	9.16	0.50	10	0	91.6	60-140	0
m,p-Xylene	19.77	0.50	20	0	98.8	60-140	0
Methylene chloride	8.35	2.0	10	0	83.5	60-140	0
MTBE	9.24	0.50	10	0	92.4	60.8-151	0
Naphthalene	6.24	0.20	10	0	62.4	53.1-152	0
o-Xylene	9.77	0.50	10	0	97.7	60-140	0
Propene	9.07	0.50	10	0	90.7	34.4-139	0
Styrene	9.45	0.50	10	0	94.5	60-140	0
Tetrachloroethene	9.22	0.50	10	0	92.2	60-140	0
Tetrahydrofuran	9.07	0.50	10	0	90.7	60-140	0
Toluene	9.68	0.50	10	0	96.8	60-140	0
trans-1,2-Dichloroethene	9.7	0.50	10	0	97	60-140	0
trans-1,3-Dichloropropene	9.46	0.50	10	0	94.6	60-140	0
Trichloroethene	9.07	0.20	10	0	90.7	60-140	0
Trichlorofluoromethane	9.98	0.50	10	0	99.8	60-140	0
Vinyl acetate	10.83	0.50	10	0	108	48.4-145	0
Vinyl chloride	11.09	0.50	10	0	111	60-140	0
Surr: Bromofluorobenzene	*10.3*	0	*10*	0	*103*	*60-140*	0

The following samples were analyzed in this batch: 21060686-01A 21060686-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21060686
Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193350** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **MBLK-R193350** Units: **ppbv** Analysis Date: **6/29/2021 10:39 AM**
Client ID: Run ID: **VMS4_210629A** SeqNo: **2503098** 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	0.20								
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	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	1.0								
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	1.0								
Bromodichloromethane	ND	0.20								
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								
Freon 113	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21060686
Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193350** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.20					
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	*9.5*	0	*10*	0	*95*	*60-140*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21060686
Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193350** Instrument ID **VMS4** Method: **ETO-15**

LCS Sample ID: **LCS-R193350** Units: **ppbv** Analysis Date: **6/29/2021 09:56 AM**
Client ID: Run ID: **VMS4_210629A** SeqNo: **2503097** 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	9.34	0.50	10	0	93.4	58.8-163	0			
1,1,2,2-Tetrachloroethane	8.54	0.50	10	0	85.4	60-140	0			
1,1,2-Trichloroethane	9.23	0.20	10	0	92.3	60-140	0			
1,1-Dichloroethane	9.02	0.50	10	0	90.2	60-140	0			
1,1-Dichloroethene	8.82	0.50	10	0	88.2	60-140	0			
1,2,4-Trichlorobenzene	7.02	0.50	10	0	70.2	49.3-150	0			
1,2,4-Trimethylbenzene	9.7	0.50	10	0	97	50.1-162	0			
1,2-Dibromoethane	9.28	0.20	10	0	92.8	60-140	0			
1,2-Dichlorobenzene	8.86	0.50	10	0	88.6	41.9-141	0			
1,2-Dichloroethane	9.81	0.20	10	0	98.1	60-140	0			
1,2-Dichloropropane	9.45	0.50	10	0	94.5	60-140	0			
1,3,5-Trimethylbenzene	9.34	0.50	10	0	93.4	60-140	0			
1,3-Butadiene	9.28	0.20	10	0	92.8	50.6-140	0			
1,3-Dichlorobenzene	8.43	0.50	10	0	84.3	60-140	0			
1,4-Dichlorobenzene	8.31	0.20	10	0	83.1	55.1-145	0			
1,4-Dioxane	7.74	1.0	10	0	77.4	60-140	0			
2-Butanone	9.92	1.0	10	0	99.2	60-140	0			
2-Hexanone	8.2	1.0	10	0	82	56.2-162	0			
2-Propanol	8.59	1.0	10	0	85.9	60-140	0			
4-Ethyltoluene	9.68	0.50	10	0	96.8	60-140	0			
4-Methyl-2-pentanone	10.21	1.0	10	0	102	60-140	0			
Acetone	7.21	1.0	10	0	72.1	60-140	0			
Benzene	9.65	0.50	10	0	96.5	60-140	0			
Benzyl chloride	8.87	1.0	10	0	88.7	31.9-174	0			
Bromodichloromethane	9.33	0.20	10	0	93.3	60-140	0			
Bromoform	8.97	0.50	10	0	89.7	60-140	0			
Bromomethane	6.73	0.50	10	0	67.3	60-140	0			
Carbon disulfide	8.6	0.50	10	0	86	60-140	0			
Carbon tetrachloride	9.29	0.50	10	0	92.9	60-140	0			
Chlorobenzene	8.84	0.50	10	0	88.4	60-140	0			
Chloroethane	14.82	0.50	10	0	148	60-140	0			S
Chloroform	9.11	0.20	10	0	91.1	60-140	0			
Chloromethane	8.17	0.50	10	0	81.7	60-140	0			
cis-1,2-Dichloroethene	10.01	0.50	10	0	100	60-140	0			
cis-1,3-Dichloropropene	10.36	0.50	10	0	104	60-140	0			
Cumene	9.45	0.50	10	0	94.5	60-140	0			
Cyclohexane	9.8	0.50	10	0	98	60-140	0			
Dibromochloromethane	9.35	0.50	10	0	93.5	60-140	0			
Dichlorodifluoromethane	8.24	0.50	10	0	82.4	60-140	0			
Ethyl acetate	10.59	0.50	10	0	106	60-140	0			
Ethylbenzene	9.2	0.50	10	0	92	60-140	0			
Freon 113	8.74	0.50	10	0	87.4	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21060686
Project: SVE Quarterly Sampling/Q2/2021

QC BATCH REPORT

Batch ID: **R193350** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	7.95	0.50	10	0	79.5	60-140	0
Heptane	10.58	0.50	10	0	106	60-140	0
Hexachlorobutadiene	8.94	0.20	10	0	89.4	60-140	0
Hexane	8.91	0.50	10	0	89.1	60-140	0
m,p-Xylene	18.12	0.50	20	0	90.6	60-140	0
Methylene chloride	7.83	2.0	10	0	78.3	60-140	0
MTBE	9.45	0.50	10	0	94.5	60.8-151	0
Naphthalene	6.18	0.20	10	0	61.8	53.1-152	0
o-Xylene	9.26	0.50	10	0	92.6	60-140	0
Propene	8.45	0.50	10	0	84.5	34.4-139	0
Styrene	9.03	0.50	10	0	90.3	60-140	0
Tetrachloroethene	9.2	0.50	10	0	92	60-140	0
Tetrahydrofuran	9.6	0.50	10	0	96	60-140	0
Toluene	9.98	0.50	10	0	99.8	60-140	0
trans-1,2-Dichloroethene	9.2	0.50	10	0	92	60-140	0
trans-1,3-Dichloropropene	9.87	0.50	10	0	98.7	60-140	0
Trichloroethene	9.33	0.20	10	0	93.3	60-140	0
Trichlorofluoromethane	8.91	0.50	10	0	89.1	60-140	0
Vinyl acetate	10.62	0.50	10	0	106	48.4-145	0
Vinyl chloride	9.61	0.50	10	0	96.1	60-140	0
Surr: Bromofluorobenzene	*9.94*	0	*10*	0	*99.4*	*60-140*	0

The following samples were analyzed in this batch: 21060686-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 29-Jun-21

Client: EarthCon
Project: SVE Quarterly Sampling/Q2/2021
WorkOrder: **21060686**

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: **15-Jun-21 15:30**

Work Order: **21060686** Received by: **AB**

Checklist completed by Alec Bolender 15-Jun-21 Reviewed by: Shawn Smythe 15-Jun-21

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 ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:			
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:

16-Sep-2021

Sofie Weber-Snapp
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Re: **TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2021** Work Order: **21081095**

Dear Sofie,

ALS Environmental received 2 samples on 30-Aug-2021 12:27 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

Report of Laboratory Analysis

ALS Environmental

Date: 16-Sep-21

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2021
Work Order: **21081095**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21081095-01	West Baker Furnace	Air		8/25/2021 09:50	8/30/2021 12:27	☐
21081095-02	East Baker Furnace	Air		8/25/2021 10:00	8/30/2021 12:27	☐

ALS Environmental

Date: 16-Sep-21

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2021
Work Order: 21081095

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: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: West Baker Furnace **Lab ID:** 21081095-01
Collection Date: 8/25/2021 09:50 AM **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	9/16/2021 02:05 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	9/16/2021 02:05 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	9/16/2021 02:05 AM
1,1-Dichloroethane	ND		250	ppbv	500	9/16/2021 02:05 AM
1,1-Dichloroethene	ND		250	ppbv	500	9/16/2021 02:05 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	9/16/2021 02:05 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	9/16/2021 02:05 AM
1,2-Dibromoethane	ND		100	ppbv	500	9/16/2021 02:05 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	9/16/2021 02:05 AM
1,2-Dichloroethane	ND		100	ppbv	500	9/16/2021 02:05 AM
1,2-Dichloropropane	ND		250	ppbv	500	9/16/2021 02:05 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	9/16/2021 02:05 AM
1,3-Butadiene	ND		100	ppbv	500	9/16/2021 02:05 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	9/16/2021 02:05 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	9/16/2021 02:05 AM
1,4-Dioxane	ND		500	ppbv	500	9/16/2021 02:05 AM
2-Butanone	ND		500	ppbv	500	9/16/2021 02:05 AM
2-Hexanone	ND		500	ppbv	500	9/16/2021 02:05 AM
2-Propanol	ND		500	ppbv	500	9/16/2021 02:05 AM
4-Ethyltoluene	ND		250	ppbv	500	9/16/2021 02:05 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	9/16/2021 02:05 AM
Acetone	ND		500	ppbv	500	9/16/2021 02:05 AM
Benzene	ND		250	ppbv	500	9/16/2021 02:05 AM
Benzyl chloride	ND		500	ppbv	500	9/16/2021 02:05 AM
Bromodichloromethane	ND		100	ppbv	500	9/16/2021 02:05 AM
Bromoform	ND		250	ppbv	500	9/16/2021 02:05 AM
Bromomethane	ND		250	ppbv	500	9/16/2021 02:05 AM
Carbon disulfide	ND		250	ppbv	500	9/16/2021 02:05 AM
Carbon tetrachloride	ND		250	ppbv	500	9/16/2021 02:05 AM
Chlorobenzene	ND		250	ppbv	500	9/16/2021 02:05 AM
Chloroethane	ND		250	ppbv	500	9/16/2021 02:05 AM
Chloroform	ND		100	ppbv	500	9/16/2021 02:05 AM
Chloromethane	ND		250	ppbv	500	9/16/2021 02:05 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	9/16/2021 02:05 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	9/16/2021 02:05 AM
Cumene	ND		250	ppbv	500	9/16/2021 02:05 AM
Cyclohexane	**6,900**		**250**	**ppbv**	500	9/16/2021 02:05 AM
Dibromochloromethane	ND		250	ppbv	500	9/16/2021 02:05 AM
Dichlorodifluoromethane	ND		250	ppbv	500	9/16/2021 02:05 AM

Note:

ALS Environmental

Date: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: West Baker Furnace **Lab ID:** 21081095-01
Collection Date: 8/25/2021 09:50 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	9/16/2021 02:05 AM
Ethylbenzene	ND		250	ppbv	500	9/16/2021 02:05 AM
Freon 113	ND		250	ppbv	500	9/16/2021 02:05 AM
Freon 114	ND		250	ppbv	500	9/16/2021 02:05 AM
Heptane	**5,900**		**250**	**ppbv**	500	9/16/2021 02:05 AM
Hexachlorobutadiene	ND		100	ppbv	500	9/16/2021 02:05 AM
Hexane	**11,000**		**250**	**ppbv**	500	9/16/2021 02:05 AM
m,p-Xylene	ND		250	ppbv	500	9/16/2021 02:05 AM
Methylene chloride	ND		1,000	ppbv	500	9/16/2021 02:05 AM
MTBE	ND		250	ppbv	500	9/16/2021 02:05 AM
Naphthalene	ND		100	ppbv	500	9/16/2021 02:05 AM
o-Xylene	ND		250	ppbv	500	9/16/2021 02:05 AM
Propene	ND		250	ppbv	500	9/16/2021 02:05 AM
Styrene	ND		250	ppbv	500	9/16/2021 02:05 AM
Tetrachloroethene	ND		250	ppbv	500	9/16/2021 02:05 AM
Tetrahydrofuran	ND		250	ppbv	500	9/16/2021 02:05 AM
Toluene	ND		250	ppbv	500	9/16/2021 02:05 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	9/16/2021 02:05 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	9/16/2021 02:05 AM
Trichloroethene	ND		100	ppbv	500	9/16/2021 02:05 AM
Trichlorofluoromethane	ND		250	ppbv	500	9/16/2021 02:05 AM
Vinyl acetate	ND		250	ppbv	500	9/16/2021 02:05 AM
Vinyl chloride	ND		250	ppbv	500	9/16/2021 02:05 AM
Surr: Bromofluorobenzene	*91.3*		*60-140*	*%REC*	500	9/16/2021 02:05 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	9/16/2021 02:05 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	9/16/2021 02:05 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	9/16/2021 02:05 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	9/16/2021 02:05 AM
1,1-Dichloroethene	ND		991	µg/m3	500	9/16/2021 02:05 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	9/16/2021 02:05 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	9/16/2021 02:05 AM
1,2-Dibromoethane	ND		768	µg/m3	500	9/16/2021 02:05 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	9/16/2021 02:05 AM
1,2-Dichloroethane	ND		405	µg/m3	500	9/16/2021 02:05 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	9/16/2021 02:05 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	9/16/2021 02:05 AM
1,3-Butadiene	ND		221	µg/m3	500	9/16/2021 02:05 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	9/16/2021 02:05 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	9/16/2021 02:05 AM

Note:

ALS Environmental

Date: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: West Baker Furnace **Lab ID:** 21081095-01
Collection Date: 8/25/2021 09:50 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	9/16/2021 02:05 AM
2-Butanone	ND		1,470	µg/m3	500	9/16/2021 02:05 AM
2-Hexanone	ND		2,050	µg/m3	500	9/16/2021 02:05 AM
2-Propanol	ND		1,230	µg/m3	500	9/16/2021 02:05 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	9/16/2021 02:05 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	9/16/2021 02:05 AM
Acetone	ND		1,190	µg/m3	500	9/16/2021 02:05 AM
Benzene	ND		799	µg/m3	500	9/16/2021 02:05 AM
Benzyl chloride	ND		2,590	µg/m3	500	9/16/2021 02:05 AM
Bromodichloromethane	ND		670	µg/m3	500	9/16/2021 02:05 AM
Bromoform	ND		2,580	µg/m3	500	9/16/2021 02:05 AM
Bromomethane	ND		971	µg/m3	500	9/16/2021 02:05 AM
Carbon disulfide	ND		778	µg/m3	500	9/16/2021 02:05 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	9/16/2021 02:05 AM
Chlorobenzene	ND		1,150	µg/m3	500	9/16/2021 02:05 AM
Chloroethane	ND		660	µg/m3	500	9/16/2021 02:05 AM
Chloroform	ND		488	µg/m3	500	9/16/2021 02:05 AM
Chloromethane	ND		516	µg/m3	500	9/16/2021 02:05 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	9/16/2021 02:05 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	9/16/2021 02:05 AM
Cumene	ND		1,230	µg/m3	500	9/16/2021 02:05 AM
Cyclohexane	**23,700**		**861**	**µg/m3**	500	9/16/2021 02:05 AM
Dibromochloromethane	ND		2,130	µg/m3	500	9/16/2021 02:05 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	9/16/2021 02:05 AM
Ethyl acetate	ND		901	µg/m3	500	9/16/2021 02:05 AM
Ethylbenzene	ND		1,090	µg/m3	500	9/16/2021 02:05 AM
Freon 113	ND		1,920	µg/m3	500	9/16/2021 02:05 AM
Freon 114	ND		1,750	µg/m3	500	9/16/2021 02:05 AM
Heptane	**24,400**		**1,020**	**µg/m3**	500	9/16/2021 02:05 AM
Hexachlorobutadiene	ND		1,070	µg/m3	500	9/16/2021 02:05 AM
Hexane	**37,100**		**881**	**µg/m3**	500	9/16/2021 02:05 AM
m,p-Xylene	ND		1,090	µg/m3	500	9/16/2021 02:05 AM
Methylene chloride	ND		3,500	µg/m3	500	9/16/2021 02:05 AM
MTBE	ND		901	µg/m3	500	9/16/2021 02:05 AM
Naphthalene	ND		524	µg/m3	500	9/16/2021 02:05 AM
o-Xylene	ND		1,090	µg/m3	500	9/16/2021 02:05 AM
Propene	ND		430	µg/m3	500	9/16/2021 02:05 AM
Styrene	ND		1,060	µg/m3	500	9/16/2021 02:05 AM
Tetrachloroethene	ND		1,700	µg/m3	500	9/16/2021 02:05 AM
Tetrahydrofuran	ND		737	µg/m3	500	9/16/2021 02:05 AM

Note:

ALS Environmental

Date: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: West Baker Furnace **Lab ID:** 21081095-01
Collection Date: 8/25/2021 09:50 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	9/16/2021 02:05 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	9/16/2021 02:05 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	9/16/2021 02:05 AM
Trichloroethene	ND		537	µg/m3	500	9/16/2021 02:05 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	9/16/2021 02:05 AM
Vinyl acetate	ND		880	µg/m3	500	9/16/2021 02:05 AM
Vinyl chloride	ND		639	µg/m3	500	9/16/2021 02:05 AM
Surr: Bromofluorobenzene	*45,600*	S	*60-140*	*%REC*	500	9/16/2021 02:05 AM

Note:

ALS Environmental

Date: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: East Baker Furnace **Lab ID:** 21081095-02
Collection Date: 8/25/2021 10:00 AM **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	9/16/2021 03:33 AM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	9/16/2021 03:33 AM
1,1,2-Trichloroethane	ND		100	ppbv	500	9/16/2021 03:33 AM
1,1-Dichloroethane	ND		250	ppbv	500	9/16/2021 03:33 AM
1,1-Dichloroethene	ND		250	ppbv	500	9/16/2021 03:33 AM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	9/16/2021 03:33 AM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	9/16/2021 03:33 AM
1,2-Dibromoethane	ND		100	ppbv	500	9/16/2021 03:33 AM
1,2-Dichlorobenzene	ND		250	ppbv	500	9/16/2021 03:33 AM
1,2-Dichloroethane	ND		100	ppbv	500	9/16/2021 03:33 AM
1,2-Dichloropropane	ND		250	ppbv	500	9/16/2021 03:33 AM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	9/16/2021 03:33 AM
1,3-Butadiene	ND		100	ppbv	500	9/16/2021 03:33 AM
1,3-Dichlorobenzene	ND		250	ppbv	500	9/16/2021 03:33 AM
1,4-Dichlorobenzene	ND		100	ppbv	500	9/16/2021 03:33 AM
1,4-Dioxane	ND		500	ppbv	500	9/16/2021 03:33 AM
2-Butanone	ND		500	ppbv	500	9/16/2021 03:33 AM
2-Hexanone	ND		500	ppbv	500	9/16/2021 03:33 AM
2-Propanol	ND		500	ppbv	500	9/16/2021 03:33 AM
4-Ethyltoluene	ND		250	ppbv	500	9/16/2021 03:33 AM
4-Methyl-2-pentanone	ND		500	ppbv	500	9/16/2021 03:33 AM
Acetone	ND		500	ppbv	500	9/16/2021 03:33 AM
Benzene	ND		250	ppbv	500	9/16/2021 03:33 AM
Benzyl chloride	ND		500	ppbv	500	9/16/2021 03:33 AM
Bromodichloromethane	ND		100	ppbv	500	9/16/2021 03:33 AM
Bromoform	ND		250	ppbv	500	9/16/2021 03:33 AM
Bromomethane	ND		250	ppbv	500	9/16/2021 03:33 AM
Carbon disulfide	ND		250	ppbv	500	9/16/2021 03:33 AM
Carbon tetrachloride	ND		250	ppbv	500	9/16/2021 03:33 AM
Chlorobenzene	ND		250	ppbv	500	9/16/2021 03:33 AM
Chloroethane	ND		250	ppbv	500	9/16/2021 03:33 AM
Chloroform	ND		100	ppbv	500	9/16/2021 03:33 AM
Chloromethane	ND		250	ppbv	500	9/16/2021 03:33 AM
cis-1,2-Dichloroethene	ND		250	ppbv	500	9/16/2021 03:33 AM
cis-1,3-Dichloropropene	ND		250	ppbv	500	9/16/2021 03:33 AM
Cumene	ND		250	ppbv	500	9/16/2021 03:33 AM
Cyclohexane	**5,100**		**250**	**ppbv**	500	9/16/2021 03:33 AM
Dibromochloromethane	ND		250	ppbv	500	9/16/2021 03:33 AM
Dichlorodifluoromethane	ND		250	ppbv	500	9/16/2021 03:33 AM

Note:

ALS Environmental

Date: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: East Baker Furnace **Lab ID:** 21081095-02
Collection Date: 8/25/2021 10:00 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	9/16/2021 03:33 AM
Ethylbenzene	ND		250	ppbv	500	9/16/2021 03:33 AM
Freon 113	ND		250	ppbv	500	9/16/2021 03:33 AM
Freon 114	ND		250	ppbv	500	9/16/2021 03:33 AM
Heptane	**4,600**		**250**	**ppbv**	500	9/16/2021 03:33 AM
Hexachlorobutadiene	ND		100	ppbv	500	9/16/2021 03:33 AM
Hexane	**9,500**		**250**	**ppbv**	500	9/16/2021 03:33 AM
m,p-Xylene	ND		250	ppbv	500	9/16/2021 03:33 AM
Methylene chloride	ND		1,000	ppbv	500	9/16/2021 03:33 AM
MTBE	ND		250	ppbv	500	9/16/2021 03:33 AM
Naphthalene	ND		100	ppbv	500	9/16/2021 03:33 AM
o-Xylene	ND		250	ppbv	500	9/16/2021 03:33 AM
Propene	ND		250	ppbv	500	9/16/2021 03:33 AM
Styrene	ND		250	ppbv	500	9/16/2021 03:33 AM
Tetrachloroethene	ND		250	ppbv	500	9/16/2021 03:33 AM
Tetrahydrofuran	ND		250	ppbv	500	9/16/2021 03:33 AM
Toluene	**260**		**250**	**ppbv**	500	9/16/2021 03:33 AM
trans-1,2-Dichloroethene	ND		250	ppbv	500	9/16/2021 03:33 AM
trans-1,3-Dichloropropene	ND		250	ppbv	500	9/16/2021 03:33 AM
Trichloroethene	ND		100	ppbv	500	9/16/2021 03:33 AM
Trichlorofluoromethane	ND		250	ppbv	500	9/16/2021 03:33 AM
Vinyl acetate	ND		250	ppbv	500	9/16/2021 03:33 AM
Vinyl chloride	ND		250	ppbv	500	9/16/2021 03:33 AM
Surr: Bromofluorobenzene	*90.8*		*60-140*	*%REC*	500	9/16/2021 03:33 AM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	9/16/2021 03:33 AM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	9/16/2021 03:33 AM
1,1,2-Trichloroethane	ND		546	µg/m3	500	9/16/2021 03:33 AM
1,1-Dichloroethane	ND		1,010	µg/m3	500	9/16/2021 03:33 AM
1,1-Dichloroethene	ND		991	µg/m3	500	9/16/2021 03:33 AM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	9/16/2021 03:33 AM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	9/16/2021 03:33 AM
1,2-Dibromoethane	ND		768	µg/m3	500	9/16/2021 03:33 AM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	9/16/2021 03:33 AM
1,2-Dichloroethane	ND		405	µg/m3	500	9/16/2021 03:33 AM
1,2-Dichloropropane	ND		1,160	µg/m3	500	9/16/2021 03:33 AM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	9/16/2021 03:33 AM
1,3-Butadiene	ND		221	µg/m3	500	9/16/2021 03:33 AM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	9/16/2021 03:33 AM
1,4-Dichlorobenzene	ND		601	µg/m3	500	9/16/2021 03:33 AM

Note:

ALS Environmental

Date: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: East Baker Furnace **Lab ID:** 21081095-02
Collection Date: 8/25/2021 10:00 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	9/16/2021 03:33 AM
2-Butanone	ND		1,470	µg/m3	500	9/16/2021 03:33 AM
2-Hexanone	ND		2,050	µg/m3	500	9/16/2021 03:33 AM
2-Propanol	ND		1,230	µg/m3	500	9/16/2021 03:33 AM
4-Ethyltoluene	ND		1,230	µg/m3	500	9/16/2021 03:33 AM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	9/16/2021 03:33 AM
Acetone	ND		1,190	µg/m3	500	9/16/2021 03:33 AM
Benzene	ND		799	µg/m3	500	9/16/2021 03:33 AM
Benzyl chloride	ND		2,590	µg/m3	500	9/16/2021 03:33 AM
Bromodichloromethane	ND		670	µg/m3	500	9/16/2021 03:33 AM
Bromoform	ND		2,580	µg/m3	500	9/16/2021 03:33 AM
Bromomethane	ND		971	µg/m3	500	9/16/2021 03:33 AM
Carbon disulfide	ND		778	µg/m3	500	9/16/2021 03:33 AM
Carbon tetrachloride	ND		1,570	µg/m3	500	9/16/2021 03:33 AM
Chlorobenzene	ND		1,150	µg/m3	500	9/16/2021 03:33 AM
Chloroethane	ND		660	µg/m3	500	9/16/2021 03:33 AM
Chloroform	ND		488	µg/m3	500	9/16/2021 03:33 AM
Chloromethane	ND		516	µg/m3	500	9/16/2021 03:33 AM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	9/16/2021 03:33 AM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	9/16/2021 03:33 AM
Cumene	ND		1,230	µg/m3	500	9/16/2021 03:33 AM
Cyclohexane	**17,600**		**861**	**µg/m3**	500	9/16/2021 03:33 AM
Dibromochloromethane	ND		2,130	µg/m3	500	9/16/2021 03:33 AM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	9/16/2021 03:33 AM
Ethyl acetate	ND		901	µg/m3	500	9/16/2021 03:33 AM
Ethylbenzene	ND		1,090	µg/m3	500	9/16/2021 03:33 AM
Freon 113	ND		1,920	µg/m3	500	9/16/2021 03:33 AM
Freon 114	ND		1,750	µg/m3	500	9/16/2021 03:33 AM
Heptane	**19,000**		**1,020**	**µg/m3**	500	9/16/2021 03:33 AM
Hexachlorobutadiene	ND		1,070	µg/m3	500	9/16/2021 03:33 AM
Hexane	**33,600**		**881**	**µg/m3**	500	9/16/2021 03:33 AM
m,p-Xylene	ND		1,090	µg/m3	500	9/16/2021 03:33 AM
Methylene chloride	ND		3,500	µg/m3	500	9/16/2021 03:33 AM
MTBE	ND		901	µg/m3	500	9/16/2021 03:33 AM
Naphthalene	ND		524	µg/m3	500	9/16/2021 03:33 AM
o-Xylene	ND		1,090	µg/m3	500	9/16/2021 03:33 AM
Propene	ND		430	µg/m3	500	9/16/2021 03:33 AM
Styrene	ND		1,060	µg/m3	500	9/16/2021 03:33 AM
Tetrachloroethene	ND		1,700	µg/m3	500	9/16/2021 03:33 AM
Tetrahydrofuran	ND		737	µg/m3	500	9/16/2021 03:33 AM

Note:

ALS Environmental

Date: *16-Sep-21*

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2 **Work Order:** 21081095
Sample ID: East Baker Furnace **Lab ID:** 21081095-02
Collection Date: 8/25/2021 10:00 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	**980**		**942**	**µg/m3**	500	9/16/2021 03:33 AM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	9/16/2021 03:33 AM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	9/16/2021 03:33 AM
Trichloroethene	ND		537	µg/m3	500	9/16/2021 03:33 AM
Trichlorofluoromethane	ND		1,400	µg/m3	500	9/16/2021 03:33 AM
Vinyl acetate	ND		880	µg/m3	500	9/16/2021 03:33 AM
Vinyl chloride	ND		639	µg/m3	500	9/16/2021 03:33 AM
Surr: Bromofluorobenzene	*90.8*		*60-140*	*%REC*	500	9/16/2021 03:33 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 West Baker Furnace
ALS Sample # 21081095-01a
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	68816	PPBV
	TVOC**	242532	ug/m3

Client Sample ID: TWP East Baker Furnace
ALS Sample # 21081095-02A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	43169	PPBV
	TVOC**	152140	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 16-Sep-21

Client: EarthCon

Work Order: 21081095

Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q

QC BATCH REPORT

Batch ID: **R195868** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **MBLK-R195868** Units: **ppbv** Analysis Date: **9/15/2021 12:31 PM**

Client ID: Run ID: **VMS4_210915A** SeqNo: **2562496** 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	0.20								
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	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	1.0								
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	1.0								
Bromodichloromethane	ND	0.20								
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: 21081095
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q

QC BATCH REPORT

Batch ID: **R195868** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50					
Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.20					
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	*8.67*	0	*10*	0	*86.7*	*60-140*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21081095
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q

QC BATCH REPORT

Batch ID: **R195868** Instrument ID **VMS4** Method: **ETO-15**

LCS Sample ID: **LCS-R195868** Units: **ppbv** Analysis Date: **9/15/2021 11:48 AM**
Client ID: Run ID: **VMS4_210915A** SeqNo: **2562495** 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	10.28	0.50	10	0	103	58.8-163	0			
1,1,2,2-Tetrachloroethane	11.35	0.50	10	0	114	60-140	0			
1,1,2-Trichloroethane	11.08	0.20	10	0	111	60-140	0			
1,1-Dichloroethane	11.38	0.50	10	0	114	60-140	0			
1,1-Dichloroethene	11.61	0.50	10	0	116	60-140	0			
1,2,4-Trichlorobenzene	7.76	0.50	10	0	77.6	49.3-150	0			
1,2,4-Trimethylbenzene	10.21	0.50	10	0	102	50.1-162	0			
1,2-Dibromoethane	10.59	0.20	10	0	106	60-140	0			
1,2-Dichlorobenzene	9.78	0.50	10	0	97.8	41.9-141	0			
1,2-Dichloroethane	11.07	0.20	10	0	111	60-140	0			
1,2-Dichloropropane	11.59	0.50	10	0	116	60-140	0			
1,3,5-Trimethylbenzene	10.34	0.50	10	0	103	60-140	0			
1,3-Butadiene	11.86	0.20	10	0	119	50.6-140	0			
1,3-Dichlorobenzene	10.08	0.50	10	0	101	60-140	0			
1,4-Dichlorobenzene	10.17	0.20	10	0	102	55.1-145	0			
1,4-Dioxane	11.16	1.0	10	0	112	60-140	0			
2-Butanone	11.5	1.0	10	0	115	60-140	0			
2-Hexanone	12.99	1.0	10	0	130	56.2-162	0			
2-Propanol	11.23	1.0	10	0	112	60-140	0			
4-Ethyltoluene	10.69	0.50	10	0	107	60-140	0			
4-Methyl-2-pentanone	12.74	1.0	10	0	127	60-140	0			
Acetone	11.34	1.0	10	0	113	60-140	0			
Benzene	10.95	0.50	10	0	110	60-140	0			
Benzyl chloride	10.96	1.0	10	0	110	31.9-174	0			
Bromodichloromethane	11.28	0.20	10	0	113	60-140	0			
Bromoform	9.87	0.50	10	0	98.7	60-140	0			
Bromomethane	12.18	0.50	10	0	122	60-140	0			
Carbon disulfide	11.84	0.50	10	0	118	60-140	0			
Carbon tetrachloride	10.23	0.50	10	0	102	60-140	0			
Chlorobenzene	10.22	0.50	10	0	102	60-140	0			
Chloroethane	11.76	0.50	10	0	118	60-140	0			
Chloroform	11.18	0.20	10	0	112	60-140	0			
Chloromethane	13.31	0.50	10	0	133	60-140	0			
cis-1,2-Dichloroethene	11.96	0.50	10	0	120	60-140	0			
cis-1,3-Dichloropropene	10.87	0.50	10	0	109	60-140	0			
Cumene	10.61	0.50	10	0	106	60-140	0			
Cyclohexane	10.29	0.50	10	0	103	60-140	0			
Dibromochloromethane	10.45	0.50	10	0	104	60-140	0			
Dichlorodifluoromethane	12.52	0.50	10	0	125	60-140	0			
Ethyl acetate	11.85	0.50	10	0	118	60-140	0			
Ethylbenzene	10.61	0.50	10	0	106	60-140	0			
Freon 113	11.45	0.50	10	0	114	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 21081095
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q

QC BATCH REPORT

Batch ID: **R195868** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	12.19	0.50	10	0	122	60-140	0
Heptane	10.82	0.50	10	0	108	60-140	0
Hexachlorobutadiene	8.67	0.20	10	0	86.7	60-140	0
Hexane	10.75	0.50	10	0	108	60-140	0
m,p-Xylene	21.87	0.50	20	0	109	60-140	0
Methylene chloride	11.47	2.0	10	0	115	60-140	0
MTBE	10.55	0.50	10	0	106	60.8-151	0
Naphthalene	6.7	0.20	10	0	67	53.1-152	0
o-Xylene	10.67	0.50	10	0	107	60-140	0
Propene	13.7	0.50	10	0	137	34.4-139	0
Styrene	10.55	0.50	10	0	106	60-140	0
Tetrachloroethene	10.71	0.50	10	0	107	60-140	0
Tetrahydrofuran	11.7	0.50	10	0	117	60-140	0
Toluene	10.94	0.50	10	0	109	60-140	0
trans-1,2-Dichloroethene	11.17	0.50	10	0	112	60-140	0
trans-1,3-Dichloropropene	10.89	0.50	10	0	109	60-140	0
Trichloroethene	10.58	0.20	10	0	106	60-140	0
Trichlorofluoromethane	11.47	0.50	10	0	115	60-140	0
Vinyl acetate	10.97	0.50	10	0	110	48.4-145	0
Vinyl chloride	11.44	0.50	10	0	114	60-140	0
Surr: Bromofluorobenzene	*10.01*	0	*10*	0	*100*	*60-140*	0

The following samples were analyzed in this batch: 21081095-01A 21081095-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 16-Sep-21

Client: EarthCon
Project: TWP Roswell Station 9; SVE Quarterly Sampling/Q3/2
WorkOrder: **21081095**

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: **30-Aug-21 12:27**

Work Order: **21081095** Received by: **HXP**

Checklist completed by H annah P onder 30-Aug-21 Reviewed by: S hawn S mythe 16-Sep-21

eSignature Date eSignature Date

Matrices: air

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 ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/30/21 13.19		
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:

18-Jan-2022

Sofie Weber-Snapp
EarthCon
188 West Oak Parkway
Suite 106
Marietta, GA 30062

Re: **TWP Roswell Station #9; SVE Quarterly Sampling Q4/2021** Work Order: **22010040**

Dear Sofie,

ALS Environmental received 1 sample on 04-Jan-2022 10:30 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 14.

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

Report of Laboratory Analysis

ALS Environmental

Date: 18-Jan-22

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling Q4/2021
Work Order: **22010040**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
22010040-01	TWP Roswell Station 9 West Baker Furnace	Air		12/30/2021 09:10	1/4/2022 10:30	☐

ALS Environmental

Date: 18-Jan-22

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling Q4/202
Work Order: 22010040

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-Jan-22*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling Q4/ **Work Order:** 22010040
Sample ID: TWP Roswell Station 9 West Baker Furnace **Lab ID:** 22010040-01
Collection Date: 12/30/2021 09:10 AM **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	1/18/2022 12:14 PM
1,1,2,2-Tetrachloroethane	ND		250	ppbv	500	1/18/2022 12:14 PM
1,1,2-Trichloroethane	ND		100	ppbv	500	1/18/2022 12:14 PM
1,1-Dichloroethane	ND		250	ppbv	500	1/18/2022 12:14 PM
1,1-Dichloroethene	ND		250	ppbv	500	1/18/2022 12:14 PM
1,2,4-Trichlorobenzene	ND		250	ppbv	500	1/18/2022 12:14 PM
1,2,4-Trimethylbenzene	ND		250	ppbv	500	1/18/2022 12:14 PM
1,2-Dibromoethane	ND		100	ppbv	500	1/18/2022 12:14 PM
1,2-Dichlorobenzene	ND		250	ppbv	500	1/18/2022 12:14 PM
1,2-Dichloroethane	ND		100	ppbv	500	1/18/2022 12:14 PM
1,2-Dichloropropane	ND		250	ppbv	500	1/18/2022 12:14 PM
1,3,5-Trimethylbenzene	ND		250	ppbv	500	1/18/2022 12:14 PM
1,3-Butadiene	ND		100	ppbv	500	1/18/2022 12:14 PM
1,3-Dichlorobenzene	ND		250	ppbv	500	1/18/2022 12:14 PM
1,4-Dichlorobenzene	ND		100	ppbv	500	1/18/2022 12:14 PM
1,4-Dioxane	ND		500	ppbv	500	1/18/2022 12:14 PM
2-Butanone	ND		500	ppbv	500	1/18/2022 12:14 PM
2-Hexanone	ND		500	ppbv	500	1/18/2022 12:14 PM
2-Propanol	ND		500	ppbv	500	1/18/2022 12:14 PM
4-Ethyltoluene	ND		250	ppbv	500	1/18/2022 12:14 PM
4-Methyl-2-pentanone	ND		500	ppbv	500	1/18/2022 12:14 PM
Acetone	ND		500	ppbv	500	1/18/2022 12:14 PM
Benzene	**340**		**250**	**ppbv**	500	1/18/2022 12:14 PM
Benzyl chloride	ND		500	ppbv	500	1/18/2022 12:14 PM
Bromodichloromethane	ND		100	ppbv	500	1/18/2022 12:14 PM
Bromoform	ND		250	ppbv	500	1/18/2022 12:14 PM
Bromomethane	ND		250	ppbv	500	1/18/2022 12:14 PM
Carbon disulfide	ND		250	ppbv	500	1/18/2022 12:14 PM
Carbon tetrachloride	ND		250	ppbv	500	1/18/2022 12:14 PM
Chlorobenzene	ND		250	ppbv	500	1/18/2022 12:14 PM
Chloroethane	ND		250	ppbv	500	1/18/2022 12:14 PM
Chloroform	ND		100	ppbv	500	1/18/2022 12:14 PM
Chloromethane	ND		250	ppbv	500	1/18/2022 12:14 PM
cis-1,2-Dichloroethene	ND		250	ppbv	500	1/18/2022 12:14 PM
cis-1,3-Dichloropropene	ND		250	ppbv	500	1/18/2022 12:14 PM
Cumene	ND		250	ppbv	500	1/18/2022 12:14 PM
Cyclohexane	**11,000**		**250**	**ppbv**	500	1/18/2022 12:14 PM
Dibromochloromethane	ND		250	ppbv	500	1/18/2022 12:14 PM
Dichlorodifluoromethane	ND		250	ppbv	500	1/18/2022 12:14 PM

Note:

ALS Environmental

Date: *18-Jan-22*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling Q4/ **Work Order:** 22010040
Sample ID: TWP Roswell Station 9 West Baker Furnace **Lab ID:** 22010040-01
Collection Date: 12/30/2021 09:10 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		250	ppbv	500	1/18/2022 12:14 PM
Ethylbenzene	ND		250	ppbv	500	1/18/2022 12:14 PM
Freon 113	ND		250	ppbv	500	1/18/2022 12:14 PM
Freon 114	ND		250	ppbv	500	1/18/2022 12:14 PM
Heptane	**11,000**		**250**	**ppbv**	500	1/18/2022 12:14 PM
Hexachlorobutadiene	ND		100	ppbv	500	1/18/2022 12:14 PM
Hexane	**19,000**		**2,500**	**ppbv**	5000	1/18/2022 01:15 PM
m,p-Xylene	**300**		**250**	**ppbv**	500	1/18/2022 12:14 PM
Methylene chloride	ND		1,000	ppbv	500	1/18/2022 12:14 PM
MTBE	ND		250	ppbv	500	1/18/2022 12:14 PM
Naphthalene	ND		100	ppbv	500	1/18/2022 12:14 PM
o-Xylene	ND		250	ppbv	500	1/18/2022 12:14 PM
Propene	ND		250	ppbv	500	1/18/2022 12:14 PM
Styrene	ND		250	ppbv	500	1/18/2022 12:14 PM
Tetrachloroethene	ND		250	ppbv	500	1/18/2022 12:14 PM
Tetrahydrofuran	ND		250	ppbv	500	1/18/2022 12:14 PM
Toluene	ND		250	ppbv	500	1/18/2022 12:14 PM
trans-1,2-Dichloroethene	ND		250	ppbv	500	1/18/2022 12:14 PM
trans-1,3-Dichloropropene	ND		250	ppbv	500	1/18/2022 12:14 PM
Trichloroethene	ND		100	ppbv	500	1/18/2022 12:14 PM
Trichlorofluoromethane	ND		250	ppbv	500	1/18/2022 12:14 PM
Vinyl acetate	ND		500	ppbv	500	1/18/2022 12:14 PM
Vinyl chloride	ND		250	ppbv	500	1/18/2022 12:14 PM
Surr: Bromofluorobenzene	*81.9*		*60-140*	*%REC*	500	1/18/2022 12:14 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		1,360	µg/m3	500	1/18/2022 12:14 PM
1,1,2,2-Tetrachloroethane	ND		1,720	µg/m3	500	1/18/2022 12:14 PM
1,1,2-Trichloroethane	ND		546	µg/m3	500	1/18/2022 12:14 PM
1,1-Dichloroethane	ND		1,010	µg/m3	500	1/18/2022 12:14 PM
1,1-Dichloroethene	ND		991	µg/m3	500	1/18/2022 12:14 PM
1,2,4-Trichlorobenzene	ND		1,860	µg/m3	500	1/18/2022 12:14 PM
1,2,4-Trimethylbenzene	ND		1,230	µg/m3	500	1/18/2022 12:14 PM
1,2-Dibromoethane	ND		768	µg/m3	500	1/18/2022 12:14 PM
1,2-Dichlorobenzene	ND		1,500	µg/m3	500	1/18/2022 12:14 PM
1,2-Dichloroethane	ND		405	µg/m3	500	1/18/2022 12:14 PM
1,2-Dichloropropane	ND		1,160	µg/m3	500	1/18/2022 12:14 PM
1,3,5-Trimethylbenzene	ND		1,230	µg/m3	500	1/18/2022 12:14 PM
1,3-Butadiene	ND		221	µg/m3	500	1/18/2022 12:14 PM
1,3-Dichlorobenzene	ND		1,500	µg/m3	500	1/18/2022 12:14 PM
1,4-Dichlorobenzene	ND		601	µg/m3	500	1/18/2022 12:14 PM

Note:

ALS Environmental

Date: *18-Jan-22*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling Q4/ **Work Order:** 22010040
Sample ID: TWP Roswell Station 9 West Baker Furnace **Lab ID:** 22010040-01
Collection Date: 12/30/2021 09:10 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		1,800	µg/m3	500	1/18/2022 12:14 PM
2-Butanone	ND		1,470	µg/m3	500	1/18/2022 12:14 PM
2-Hexanone	ND		2,050	µg/m3	500	1/18/2022 12:14 PM
2-Propanol	ND		1,230	µg/m3	500	1/18/2022 12:14 PM
4-Ethyltoluene	ND		1,230	µg/m3	500	1/18/2022 12:14 PM
4-Methyl-2-pentanone	ND		2,050	µg/m3	500	1/18/2022 12:14 PM
Acetone	ND		1,190	µg/m3	500	1/18/2022 12:14 PM
Benzene	**1,100**		**799**	**µg/m3**	500	1/18/2022 12:14 PM
Benzyl chloride	ND		2,590	µg/m3	500	1/18/2022 12:14 PM
Bromodichloromethane	ND		670	µg/m3	500	1/18/2022 12:14 PM
Bromoform	ND		2,580	µg/m3	500	1/18/2022 12:14 PM
Bromomethane	ND		971	µg/m3	500	1/18/2022 12:14 PM
Carbon disulfide	ND		778	µg/m3	500	1/18/2022 12:14 PM
Carbon tetrachloride	ND		1,570	µg/m3	500	1/18/2022 12:14 PM
Chlorobenzene	ND		1,150	µg/m3	500	1/18/2022 12:14 PM
Chloroethane	ND		660	µg/m3	500	1/18/2022 12:14 PM
Chloroform	ND		488	µg/m3	500	1/18/2022 12:14 PM
Chloromethane	ND		516	µg/m3	500	1/18/2022 12:14 PM
cis-1,2-Dichloroethene	ND		991	µg/m3	500	1/18/2022 12:14 PM
cis-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/18/2022 12:14 PM
Cumene	ND		1,230	µg/m3	500	1/18/2022 12:14 PM
Cyclohexane	**38,800**		**861**	**µg/m3**	500	1/18/2022 12:14 PM
Dibromochloromethane	ND		2,130	µg/m3	500	1/18/2022 12:14 PM
Dichlorodifluoromethane	ND		1,240	µg/m3	500	1/18/2022 12:14 PM
Ethyl acetate	ND		901	µg/m3	500	1/18/2022 12:14 PM
Ethylbenzene	ND		1,090	µg/m3	500	1/18/2022 12:14 PM
Freon 113	ND		1,920	µg/m3	500	1/18/2022 12:14 PM
Freon 114	ND		1,750	µg/m3	500	1/18/2022 12:14 PM
Heptane	**43,200**		**1,020**	**µg/m3**	500	1/18/2022 12:14 PM
Hexachlorobutadiene	ND		1,070	µg/m3	500	1/18/2022 12:14 PM
Hexane	**68,200**		**8,810**	**µg/m3**	5000	1/18/2022 01:15 PM
m,p-Xylene	**1,280**		**1,090**	**µg/m3**	500	1/18/2022 12:14 PM
Methylene chloride	ND		3,500	µg/m3	500	1/18/2022 12:14 PM
MTBE	ND		901	µg/m3	500	1/18/2022 12:14 PM
Naphthalene	ND		524	µg/m3	500	1/18/2022 12:14 PM
o-Xylene	ND		1,090	µg/m3	500	1/18/2022 12:14 PM
Propene	ND		430	µg/m3	500	1/18/2022 12:14 PM
Styrene	ND		1,060	µg/m3	500	1/18/2022 12:14 PM
Tetrachloroethene	ND		1,700	µg/m3	500	1/18/2022 12:14 PM
Tetrahydrofuran	ND		737	µg/m3	500	1/18/2022 12:14 PM

Note:

ALS Environmental

Date: *18-Jan-22*

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling Q4/ **Work Order:** 22010040
Sample ID: TWP Roswell Station 9 West Baker Furnace **Lab ID:** 22010040-01
Collection Date: 12/30/2021 09:10 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		942	µg/m3	500	1/18/2022 12:14 PM
trans-1,2-Dichloroethene	ND		991	µg/m3	500	1/18/2022 12:14 PM
trans-1,3-Dichloropropene	ND		1,130	µg/m3	500	1/18/2022 12:14 PM
Trichloroethene	ND		537	µg/m3	500	1/18/2022 12:14 PM
Trichlorofluoromethane	ND		1,400	µg/m3	500	1/18/2022 12:14 PM
Vinyl acetate	ND		1,760	µg/m3	500	1/18/2022 12:14 PM
Vinyl chloride	ND		639	µg/m3	500	1/18/2022 12:14 PM
Surr: Bromofluorobenzene	*81.9*		*60-140*	*%REC*	500	1/18/2022 12:14 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 Station 9 West Baker Furnace
ALS Sample # 22010040-01A
Method: EPA TO-15

		Estimated Concentration	Units
	TVOC**	81489	PPBV
	TVOC**	287196	ug/m3

**TVOC calculation based on response factor and molecular weight of hexane.
****Results should be considered estimated.

ALS Environmental

Date: 18-Jan-22

Client: EarthCon

Work Order: 22010040

Project: TWP Roswell Station #9; SVE Quarterly Sampling

QC BATCH REPORT

Batch ID: **R200529** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **mblk-R200529** Units: **ppbv** Analysis Date: **1/17/2022 07:49 PM**

Client ID: Run ID: **VMS4_220117A** SeqNo: **2652693** 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	0.20								
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	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	1.0								
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	1.0								
Bromodichloromethane	ND	0.20								
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: 22010040
Project: TWP Roswell Station #9; SVE Quarterly Sampling

QC BATCH REPORT

Batch ID: **R200529** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.20						
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	1.0						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	*8.13*	0	*10*	0	*81.3*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 22010040
Project: TWP Roswell Station #9; SVE Quarterly Sampling

QC BATCH REPORT

Batch ID: **R200529** Instrument ID **VMS4** Method: **ETO-15**

LCS Sample ID: **LCS-R200529** Units: **ppbv** Analysis Date: **1/17/2022 06:24 PM**
Client ID: Run ID: **VMS4_220117A** SeqNo: **2652692** 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	9.23	0.50	10	0	92.3	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.31	0.50	10	0	103	60-140	0			
1,1,2-Trichloroethane	9.67	0.20	10	0	96.7	60-140	0			
1,1-Dichloroethane	9.87	0.50	10	0	98.7	60-140	0			
1,1-Dichloroethene	10.11	0.50	10	0	101	60-140	0			
1,2,4-Trichlorobenzene	9.41	0.50	10	0	94.1	49.3-150	0			
1,2,4-Trimethylbenzene	10.29	0.50	10	0	103	50.1-162	0			
1,2-Dibromoethane	9.66	0.20	10	0	96.6	60-140	0			
1,2-Dichlorobenzene	10.22	0.50	10	0	102	41.9-141	0			
1,2-Dichloroethane	9.8	0.20	10	0	98	60-140	0			
1,2-Dichloropropane	10.08	0.50	10	0	101	60-140	0			
1,3,5-Trimethylbenzene	10.02	0.50	10	0	100	60-140	0			
1,3-Butadiene	13.06	0.20	10	0	131	50.6-140	0			
1,3-Dichlorobenzene	10.69	0.50	10	0	107	60-140	0			
1,4-Dichlorobenzene	10.67	0.20	10	0	107	55.1-145	0			
1,4-Dioxane	9.61	1.0	10	0	96.1	60-140	0			
2-Butanone	10.05	1.0	10	0	100	60-140	0			
2-Hexanone	11.49	1.0	10	0	115	56.2-162	0			
2-Propanol	10.26	1.0	10	0	103	60-140	0			
4-Ethyltoluene	10.54	0.50	10	0	105	60-140	0			
4-Methyl-2-pentanone	10.9	1.0	10	0	109	60-140	0			
Acetone	10.71	1.0	10	0	107	60-140	0			
Benzene	9.55	0.50	10	0	95.5	60-140	0			
Benzyl chloride	11.19	1.0	10	0	112	31.9-174	0			
Bromodichloromethane	9.76	0.20	10	0	97.6	60-140	0			
Bromoform	9.65	0.50	10	0	96.5	60-140	0			
Bromomethane	10.64	0.50	10	0	106	60-140	0			
Carbon disulfide	9.77	0.50	10	0	97.7	60-140	0			
Carbon tetrachloride	9.37	0.50	10	0	93.7	60-140	0			
Chlorobenzene	9.34	0.50	10	0	93.4	60-140	0			
Chloroethane	11.52	0.50	10	0	115	60-140	0			
Chloroform	9.55	0.20	10	0	95.5	60-140	0			
Chloromethane	11.46	0.50	10	0	115	60-140	0			
cis-1,2-Dichloroethene	10.29	0.50	10	0	103	60-140	0			
cis-1,3-Dichloropropene	9.78	0.50	10	0	97.8	60-140	0			
Cumene	10.1	0.50	10	0	101	60-140	0			
Cyclohexane	9.21	0.50	10	0	92.1	60-140	0			
Dibromochloromethane	9.52	0.50	10	0	95.2	60-140	0			
Dichlorodifluoromethane	10.67	0.50	10	0	107	60-140	0			
Ethyl acetate	10.23	0.50	10	0	102	60-140	0			
Ethylbenzene	9.68	0.50	10	0	96.8	60-140	0			
Freon 113	9.89	0.50	10	0	98.9	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EarthCon
Work Order: 22010040
Project: TWP Roswell Station #9; SVE Quarterly Sampling

QC BATCH REPORT

Batch ID: **R200529** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	10.79	0.50	10	0	108	60-140	0
Heptane	9.93	0.50	10	0	99.3	60-140	0
Hexachlorobutadiene	9.5	0.20	10	0	95	60-140	0
Hexane	9.78	0.50	10	0	97.8	60-140	0
m,p-Xylene	20.24	0.50	20	0	101	60-140	0
Methylene chloride	10.04	2.0	10	0	100	60-140	0
MTBE	9.53	0.50	10	0	95.3	60.8-151	0
Naphthalene	9.37	0.20	10	0	93.7	53.1-152	0
o-Xylene	10.01	0.50	10	0	100	60-140	0
Propene	11.27	0.50	10	0	113	34.4-139	0
Styrene	10.24	0.50	10	0	102	60-140	0
Tetrachloroethene	9.13	0.50	10	0	91.3	60-140	0
Tetrahydrofuran	10.13	0.50	10	0	101	60-140	0
Toluene	9.63	0.50	10	0	96.3	60-140	0
trans-1,2-Dichloroethene	9.61	0.50	10	0	96.1	60-140	0
trans-1,3-Dichloropropene	9.86	0.50	10	0	98.6	60-140	0
Trichloroethene	9.43	0.20	10	0	94.3	60-140	0
Trichlorofluoromethane	9.88	0.50	10	0	98.8	60-140	0
Vinyl acetate	10.55	1.0	10	0	106	48.4-145	0
Vinyl chloride	12.35	0.50	10	0	124	60-140	0
Surr: Bromofluorobenzene	*10.56*	0	*10*	0	*106*	*60-140*	0

The following samples were analyzed in this batch: 22010040-01a

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 18-Jan-22

Client: EarthCon
Project: TWP Roswell Station #9; SVE Quarterly Sampling Q4/
WorkOrder: **22010040**

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: **04-Jan-22 10:30**

Work Order: **22010040** Received by: **HXP**

Checklist completed by Alec Bolender 04-Jan-22 Reviewed by: Shawn Smythe 05-Jan-22
eSignature Date eSignature Date

Matrices: air
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 ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:			
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:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 08, 2021

Sofie Weber-Snapp
Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: TWP Roswell Station 9 OrderNo.: 2105B09

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/26/2021 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 **2105B09**
Date Reported: **6/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: TWP Roswell Station 9
Collection Date: 5/25/2021 7:30:00 AM
Lab ID: 2105B09-001 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	760	50		µg/L	50	5/27/2021 2:33:00 PM	R77731
Toluene	1100	50		µg/L	50	5/27/2021 2:33:00 PM	R77731
Ethylbenzene	ND	50		µg/L	50	5/27/2021 2:33:00 PM	R77731
Xylenes, Total	2000	100		µg/L	50	5/27/2021 2:33:00 PM	R77731
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	50	5/27/2021 2:33:00 PM	R77731

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 **2105B09**
Date Reported: **6/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Air Stripper
Project: TWP Roswell Station 9
Collection Date: 5/25/2021 7:35:00 AM
Lab ID: 2105B09-002 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0	P	µg/L	1	5/27/2021 2:53:00 PM	R77731
Toluene	ND	1.0	P	µg/L	1	5/27/2021 2:53:00 PM	R77731
Ethylbenzene	ND	1.0	P	µg/L	1	5/27/2021 2:53:00 PM	R77731
Xylenes, Total	3.4	2.0	P	µg/L	1	5/27/2021 2:53:00 PM	R77731
Surr: 4-Bromofluorobenzene	82.2	70-130	P	%Rec	1	5/27/2021 2:53:00 PM	R77731

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 **2105B09**
Date Reported: **6/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GAC's
Project: TWP Roswell Station 9
Collection Date: 5/25/2021 7:40:00 AM
Lab ID: 2105B09-003 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	5/27/2021 3:13:00 PM	R77731
Toluene	ND	1.0		µg/L	1	5/27/2021 3:13:00 PM	R77731
Ethylbenzene	ND	1.0		µg/L	1	5/27/2021 3:13:00 PM	R77731
Xylenes, Total	ND	2.0		µg/L	1	5/27/2021 3:13:00 PM	R77731
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	5/27/2021 3:13:00 PM	R77731

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 **2105B09**
Date Reported: **6/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9
Collection Date: 5/25/2021 7:45:00 AM
Lab ID: 2105B09-004 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	1.1	0.50		mg/L	5	5/26/2021 7:13:36 PM	R77690
Chloride	370	25	*	mg/L	50	6/2/2021 9:22:45 PM	A78829
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	5/26/2021 7:13:36 PM	R77690
Bromide	0.56	0.50		mg/L	5	5/26/2021 7:13:36 PM	R77690
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/26/2021 7:13:36 PM	R77690
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/26/2021 7:13:36 PM	R77690
Sulfate	1100	25	*	mg/L	50	6/2/2021 9:22:45 PM	A78829
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	400	5.0		mg/L	5	5/27/2021 11:43:38 AM	A77705
Magnesium	110	5.0		mg/L	5	5/27/2021 11:43:38 AM	A77705
Potassium	4.9	1.0		mg/L	1	5/27/2021 11:39:15 AM	A77705
Sodium	210	5.0		mg/L	5	5/27/2021 11:43:38 AM	A77705
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Toluene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Ethylbenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Naphthalene	ND	2.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1-Methylnaphthalene	ND	4.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
2-Methylnaphthalene	ND	4.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Acetone	ND	10		µg/L	1	5/27/2021 9:29:29 PM	A77732
Bromobenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Bromodichloromethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Bromoform	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Bromomethane	ND	3.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
2-Butanone	ND	10		µg/L	1	5/27/2021 9:29:29 PM	A77732
Carbon disulfide	ND	10		µg/L	1	5/27/2021 9:29:29 PM	A77732
Carbon Tetrachloride	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Chlorobenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Chloroethane	ND	2.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Chloroform	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Chloromethane	ND	3.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
2-Chlorotoluene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
4-Chlorotoluene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732

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 **2105B09**
Date Reported: **6/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9
Collection Date: 5/25/2021 7:45:00 AM
Lab ID: 2105B09-004 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
cis-1,2-DCE	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Dibromochloromethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Dibromomethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,1-Dichloroethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,1-Dichloroethene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2-Dichloropropane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,3-Dichloropropane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
2,2-Dichloropropane	ND	2.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,1-Dichloropropene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Hexachlorobutadiene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
2-Hexanone	ND	10		µg/L	1	5/27/2021 9:29:29 PM	A77732
Isopropylbenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
4-Isopropyltoluene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
4-Methyl-2-pentanone	ND	10		µg/L	1	5/27/2021 9:29:29 PM	A77732
Methylene Chloride	ND	3.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
n-Butylbenzene	ND	3.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
n-Propylbenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
sec-Butylbenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Styrene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
tert-Butylbenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
trans-1,2-DCE	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Trichlorofluoromethane	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/27/2021 9:29:29 PM	A77732
Vinyl chloride	ND	1.0		µg/L	1	5/27/2021 9:29:29 PM	A77732

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 **2105B09**
Date Reported: **6/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: TWP Roswell Station 9
Collection Date: 5/25/2021 7:45:00 AM
Lab ID: 2105B09-004 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Xylenes, Total	ND	1.5		µg/L	1	5/27/2021 9:29:29 PM	A77732
Surr: 1,2-Dichloroethane-d4	88.5	70-130		%Rec	1	5/27/2021 9:29:29 PM	A77732
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	5/27/2021 9:29:29 PM	A77732
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/27/2021 9:29:29 PM	A77732
Surr: Toluene-d8	98.0	70-130		%Rec	1	5/27/2021 9:29:29 PM	A77732

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 **2105B09**
Date Reported: **6/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Field Blank
Project: TWP Roswell Station 9
Collection Date: 5/25/2021 9:00:00 AM
Lab ID: 2105B09-005 **Matrix:** AQUEOUS **Received Date:** 5/26/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	5/27/2021 3:33:00 PM	R77731
Toluene	ND	1.0		µg/L	1	5/27/2021 3:33:00 PM	R77731
Ethylbenzene	ND	1.0		µg/L	1	5/27/2021 3:33:00 PM	R77731
Xylenes, Total	ND	2.0		µg/L	1	5/27/2021 3:33:00 PM	R77731
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	5/27/2021 3:33:00 PM	R77731

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#: **2105B09**
08-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A77705**	RunNo: **77705**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758323** 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**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A77705**	RunNo: **77705**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758324** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	100	50	150			
Magnesium	ND	1.0	0.5000	0	101	50	150			
Potassium	ND	1.0	0.5000	0	81.7	50	150			
Sodium	ND	1.0	0.5000	0	81.5	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A77705**	RunNo: **77705**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758325** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	100	85	115			
Magnesium	50	1.0	50.00	0	99.5	85	115			
Potassium	49	1.0	50.00	0	98.0	85	115			
Sodium	49	1.0	50.00	0	98.6	85	115			

Sample ID: **2105B09-004CMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post Treatment**	Batch ID: **A77705**	RunNo: **77705**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758327** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	56	1.0	50.00	4.868	103	70	130			

Sample ID: **2105B09-004CMSD**	SampType: **MSD**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post Treatment**	Batch ID: **A77705**	RunNo: **77705**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758328** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	56	1.0	50.00	4.868	101	70	130	1.23	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#: **2105B09**
08-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **2105B09-004CMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post Treatment** Batch ID: **A77705** RunNo: **77705**
Prep Date: Analysis Date: **5/27/2021** SeqNo: **2758330** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	370	5.0	250.0	112.0	102	70	130			
Sodium	470	5.0	250.0	213.9	103	70	130			

Sample ID: **2105B09-004CMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post Treatment** Batch ID: **A77705** RunNo: **77705**
Prep Date: Analysis Date: **5/27/2021** SeqNo: **2758331** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	360	5.0	250.0	112.0	99.6	70	130	1.36	20	
Sodium	460	5.0	250.0	213.9	99.0	70	130	2.08	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#: **2105B09**
08-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R77690**	RunNo: **77690**
Prep Date:	Analysis Date: **5/26/2021**	SeqNo: **2757900** 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								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R77690**	RunNo: **77690**
Prep Date:	Analysis Date: **5/26/2021**	SeqNo: **2757901** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.53	0.10	0.5000	0	106	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.1	90	110			
Bromide	2.5	0.10	2.500	0	100	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.5	90	110			
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	92.5	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A78829**	RunNo: **78829**
Prep Date:	Analysis Date: **6/2/2021**	SeqNo: **2764859** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A78829**	RunNo: **78829**
Prep Date:	Analysis Date: **6/2/2021**	SeqNo: **2764860** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.1	90	110			
Sulfate	9.9	0.50	10.00	0	98.9	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#: **2105B09**
08-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R77731**	RunNo: **77731**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758953** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.0	80	120			
Toluene	19	1.0	20.00	0	94.9	80	120			
Ethylbenzene	19	1.0	20.00	0	97.2	80	120			
Xylenes, Total	58	2.0	60.00	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		89.0	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R77731**	RunNo: **77731**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758954** 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	18		20.00		88.2	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#: **2105B09**
08-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A77732** RunNo: **77732**
Prep Date: Analysis Date: **5/27/2021** SeqNo: **2758970** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.4	70	130			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.6	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A77732** RunNo: **77732**
Prep Date: Analysis Date: **5/27/2021** SeqNo: **2758971** 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#: **2105B09**
08-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **A77732**	RunNo: **77732**
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758971** 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#: **2105B09**
08-Jun-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **PBW**	Batch ID: **A77732**	RunNo: **77732**							
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758971**	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								
tert-Butyl alcohol	ND	25								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.9	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.7	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: **2105b09-004ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **Post Treatment**	Batch ID: **A77732**	RunNo: **77732**							
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758984**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0.4800	114	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	97.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			

Sample ID: **2105b09-004amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**							
Client ID: **Post Treatment**	Batch ID: **A77732**	RunNo: **77732**							
Prep Date:	Analysis Date: **5/27/2021**	SeqNo: **2758985**	Units: **µg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0.4800	102	70	130	10.8	20	
Toluene	19	1.0	20.00	0	97.4	70	130	6.35	20	
Chlorobenzene	19	1.0	20.00	0	95.7	70	130	9.61	20	
1,1-Dichloroethene	18	1.0	20.00	0	90.3	70	130	11.3	20	
Trichloroethene (TCE)	17	1.0	20.00	0	85.5	70	130	12.6	20	
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.7		10.00		96.5	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		104	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.5	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Earth Con | Work Order Number: 2105B09 | RcptNo: 1

Received By: **Erin Melendrez** 5/26/2021 10:50:00 AM

Completed By: **Erin Melendrez** 5/26/2021 11:00:51 AM

Reviewed By: SPA 5.26.21

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. 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
(<2 or >12 unless noted)
Adjusted? No

Checked by: DAD 5.26.21

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	2.8	Good	Not Present			

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 880 West Oak Parkway, Suite 106
Marietta, GA 30062
Phone #: 770.973.2100
email or Fax#: Swebersnappa@earthcon.com
QA/QC Package: Sdiamonte@earthcon.com
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: EarthCon Consultants Inc TNP Roswell Station 9
Project #: 02.2012.005700 Monthly Discharge Water Sampling May 2021
Project Manager: Sofie Weber Snapp
Sampler: CM Barnhill, PT
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 2.9-0.1 (CF) = 2.8 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2105B09	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	O - Phosphorus	Bromide	* Field Filtered
05/25/21	0730	H2O	Pre-Treatment	3x40mL VOA's	HCl	-001	X						X	X							
05/25/21	0735	H2O	Post Air Stripper	3x40mL VOA's	HCl	-002	X						X	X							
05/25/21	0740	H2O	Between GAC's	3x40mL VOA's	HCl	-003	X						X	X							
05/25/21	0745	H2O	Post Treatment	3x40mL VOA's	HCl	-004							X	X							
				1x250mL HDPE	None								X				X	X	X	X	
					H_2SO_4								X				X	X	X	X	
					HNO_3								X				X	X	X	X	
05/25/21	0900	H2O	Field Blank	3x40mL VOA's	HCl	-005															

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
05/25/2021	1345			UPS	5/26/21	1050
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Send Results ASAP To: Swebersnappa@earthcon.com. 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: clients.hallenvironmental.com

August 04, 2021

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc
TWP Roswell Station 9

OrderNo.: 2107B97

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/23/2021 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2107B97**
Date Reported: **8/4/2021**

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: Earth Con Consultants Inc
Collection Date: 7/22/2021 7:10:00 AM
Lab ID: 2107B97-001 **Matrix:** AQUEOUS **Received Date:** 7/23/2021 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	840	20		µg/L	20	7/31/2021 12:11:00 AM	SL80223
Toluene	1300	20		µg/L	20	7/31/2021 12:11:00 AM	SL80223
Ethylbenzene	60	20		µg/L	20	7/31/2021 12:11:00 AM	SL80223
Xylenes, Total	1500	30		µg/L	20	7/31/2021 12:11:00 AM	SL80223
Surr: 1,2-Dichloroethane-d4	84.1	70-130		%Rec	20	7/31/2021 12:11:00 AM	SL80223
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	20	7/31/2021 12:11:00 AM	SL80223
Surr: Dibromofluoromethane	80.7	70-130		%Rec	20	7/31/2021 12:11:00 AM	SL80223
Surr: Toluene-d8	101	70-130		%Rec	20	7/31/2021 12:11:00 AM	SL80223

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 **2107B97**
Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post - Air Stripper
Project: Earth Con Consultants Inc
Collection Date: 7/22/2021 7:15:00 AM
Lab ID: 2107B97-002 **Matrix:** AQUEOUS **Received Date:** 7/23/2021 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	9.2	1.0		µg/L	1	7/31/2021 1:20:00 AM	SL80223
Toluene	14	1.0		µg/L	1	7/31/2021 1:20:00 AM	SL80223
Ethylbenzene	ND	1.0		µg/L	1	7/31/2021 1:20:00 AM	SL80223
Xylenes, Total	20	1.5		µg/L	1	7/31/2021 1:20:00 AM	SL80223
Surr: 1,2-Dichloroethane-d4	85.6	70-130		%Rec	1	7/31/2021 1:20:00 AM	SL80223
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/31/2021 1:20:00 AM	SL80223
Surr: Dibromofluoromethane	83.4	70-130		%Rec	1	7/31/2021 1:20:00 AM	SL80223
Surr: Toluene-d8	99.1	70-130		%Rec	1	7/31/2021 1:20:00 AM	SL80223

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 **2107B97**
Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GACs
Project: Earth Con Consultants Inc
Collection Date: 7/22/2021 7:25:00 AM
Lab ID: 2107B97-003 **Matrix:** AQUEOUS **Received Date:** 7/23/2021 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	7/31/2021 1:43:00 AM	SL80223
Toluene	ND	1.0		µg/L	1	7/31/2021 1:43:00 AM	SL80223
Ethylbenzene	ND	1.0		µg/L	1	7/31/2021 1:43:00 AM	SL80223
Xylenes, Total	ND	1.5		µg/L	1	7/31/2021 1:43:00 AM	SL80223
Surr: 1,2-Dichloroethane-d4	86.7	70-130		%Rec	1	7/31/2021 1:43:00 AM	SL80223
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/31/2021 1:43:00 AM	SL80223
Surr: Dibromofluoromethane	84.7	70-130		%Rec	1	7/31/2021 1:43:00 AM	SL80223
Surr: Toluene-d8	98.6	70-130		%Rec	1	7/31/2021 1:43:00 AM	SL80223

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 **2107B97**
Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: Earth Con Consultants Inc
Collection Date: 7/22/2021 7:30:00 AM
Lab ID: 2107B97-004 **Matrix:** AQUEOUS **Received Date:** 7/23/2021 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Fluoride	1.6	0.50		mg/L	5	7/23/2021 4:20:10 PM	R80059
Chloride	410	25	*	mg/L	50	7/27/2021 4:13:05 PM	R80124
Bromide	ND	0.50		mg/L	5	7/23/2021 4:20:10 PM	R80059
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	7/23/2021 4:20:10 PM	R80059
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	7/23/2021 4:20:10 PM	R80059
Sulfate	1300	25	*	mg/L	50	7/27/2021 4:13:05 PM	R80124
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	470	5.0		mg/L	5	7/26/2021 1:35:11 PM	B80081
Magnesium	120	5.0		mg/L	5	7/26/2021 1:35:11 PM	B80081
Potassium	15	1.0		mg/L	1	7/26/2021 1:33:27 PM	B80081
Sodium	230	5.0		mg/L	5	7/26/2021 1:35:11 PM	B80081
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Toluene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Ethylbenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Naphthalene	ND	2.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1-Methylnaphthalene	ND	4.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
2-Methylnaphthalene	ND	4.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Acetone	ND	10		µg/L	1	7/31/2021 2:07:00 AM	B80223
Bromobenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Bromodichloromethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Bromoform	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Bromomethane	ND	3.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
2-Butanone	ND	10		µg/L	1	7/31/2021 2:07:00 AM	B80223
Carbon disulfide	ND	10		µg/L	1	7/31/2021 2:07:00 AM	B80223
Carbon Tetrachloride	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Chlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Chloroethane	ND	2.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Chloroform	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Chloromethane	ND	3.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
2-Chlorotoluene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
4-Chlorotoluene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
cis-1,2-DCE	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223

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 **2107B97**
Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: Earth Con Consultants Inc
Collection Date: 7/22/2021 7:30:00 AM
Lab ID: 2107B97-004 **Matrix:** AQUEOUS **Received Date:** 7/23/2021 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Dibromochloromethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Dibromomethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,1-Dichloroethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,1-Dichloroethene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2-Dichloropropane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,3-Dichloropropane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
2,2-Dichloropropane	ND	2.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,1-Dichloropropene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Hexachlorobutadiene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
2-Hexanone	ND	10		µg/L	1	7/31/2021 2:07:00 AM	B80223
Isopropylbenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
4-Isopropyltoluene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
4-Methyl-2-pentanone	ND	10		µg/L	1	7/31/2021 2:07:00 AM	B80223
Methylene Chloride	ND	3.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
n-Butylbenzene	ND	3.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
n-Propylbenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
sec-Butylbenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Styrene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
tert-Butylbenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
trans-1,2-DCE	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Trichlorofluoromethane	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Vinyl chloride	ND	1.0		µg/L	1	7/31/2021 2:07:00 AM	B80223
Xylenes, Total	ND	1.5		µg/L	1	7/31/2021 2:07:00 AM	B80223

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 **2107B97**
Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: Earth Con Consultants Inc
Collection Date: 7/22/2021 7:30:00 AM
Lab ID: 2107B97-004 **Matrix:** AQUEOUS **Received Date:** 7/23/2021 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Surr: 1,2-Dichloroethane-d4	88.0	70-130		%Rec	1	7/31/2021 2:07:00 AM	B80223
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/31/2021 2:07:00 AM	B80223
Surr: Dibromofluoromethane	85.4	70-130		%Rec	1	7/31/2021 2:07:00 AM	B80223
Surr: Toluene-d8	97.8	70-130		%Rec	1	7/31/2021 2:07:00 AM	B80223

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 **2107B97**
Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc
Collection Date:
Lab ID: 2107B97-005
Matrix: TRIP BLANK
Received Date: 7/23/2021 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	7/31/2021 2:30:00 AM	B80223
Toluene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Ethylbenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Naphthalene	ND	2.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1-Methylnaphthalene	ND	4.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
2-Methylnaphthalene	ND	4.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Acetone	ND	10		µg/L	1	7/31/2021 2:30:00 AM	B80223
Bromobenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Bromodichloromethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Bromoform	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Bromomethane	ND	3.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
2-Butanone	ND	10		µg/L	1	7/31/2021 2:30:00 AM	B80223
Carbon disulfide	ND	10		µg/L	1	7/31/2021 2:30:00 AM	B80223
Carbon Tetrachloride	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Chlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Chloroethane	ND	2.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Chloroform	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Chloromethane	ND	3.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
2-Chlorotoluene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
4-Chlorotoluene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
cis-1,2-DCE	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Dibromochloromethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Dibromomethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,1-Dichloroethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,1-Dichloroethene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2-Dichloropropane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,3-Dichloropropane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
2,2-Dichloropropane	ND	2.0		µg/L	1	7/31/2021 2:30:00 AM	B80223

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 **2107B97**
Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc
Collection Date:
Lab ID: 2107B97-005 **Matrix:** TRIP BLANK **Received Date:** 7/23/2021 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	7/31/2021 2:30:00 AM	B80223
Hexachlorobutadiene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
2-Hexanone	ND	10		µg/L	1	7/31/2021 2:30:00 AM	B80223
Isopropylbenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
4-Isopropyltoluene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
4-Methyl-2-pentanone	ND	10		µg/L	1	7/31/2021 2:30:00 AM	B80223
Methylene Chloride	ND	3.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
n-Butylbenzene	ND	3.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
n-Propylbenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
sec-Butylbenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Styrene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
tert-Butylbenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
trans-1,2-DCE	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Trichlorofluoromethane	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Vinyl chloride	ND	1.0		µg/L	1	7/31/2021 2:30:00 AM	B80223
Xylenes, Total	ND	1.5		µg/L	1	7/31/2021 2:30:00 AM	B80223
Surr: 1,2-Dichloroethane-d4	87.8	70-130		%Rec	1	7/31/2021 2:30:00 AM	B80223
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	7/31/2021 2:30:00 AM	B80223
Surr: Dibromofluoromethane	85.2	70-130		%Rec	1	7/31/2021 2:30:00 AM	B80223
Surr: Toluene-d8	100	70-130		%Rec	1	7/31/2021 2:30:00 AM	B80223

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#: **2107B97**
04-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B80081**	RunNo: **80081**
Prep Date:	Analysis Date: **7/26/2021**	SeqNo: **2818355** 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**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B80081**	RunNo: **80081**
Prep Date:	Analysis Date: **7/26/2021**	SeqNo: **2818356** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	106	50	150			
Magnesium	ND	1.0	0.5000	0	104	50	150			
Potassium	ND	1.0	0.5000	0	93.5	50	150			
Sodium	ND	1.0	0.5000	0	104	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B80081**	RunNo: **80081**
Prep Date:	Analysis Date: **7/26/2021**	SeqNo: **2818357** 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	51	1.0	50.00	0	102	85	115			
Potassium	49	1.0	50.00	0	98.3	85	115			
Sodium	50	1.0	50.00	0	101	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#: **2107B97**
04-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R80059**	RunNo: **80059**
Prep Date:	Analysis Date: **7/23/2021**	SeqNo: **2817547** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	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: **R80059**	RunNo: **80059**
Prep Date:	Analysis Date: **7/23/2021**	SeqNo: **2817548** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	100	90	110			
Bromide	2.4	0.10	2.500	0	96.0	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	91.0	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R80124**	RunNo: **80124**
Prep Date:	Analysis Date: **7/27/2021**	SeqNo: **2820902** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R80124**	RunNo: **80124**
Prep Date:	Analysis Date: **7/27/2021**	SeqNo: **2820903** 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	97.3	90	110			
Sulfate	10	0.50	10.00	0	99.9	90	110			

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#: **2107B97**
04-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc

Sample ID: **2107B97-001ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **Pre-Treatment** Batch ID: **SL80223** RunNo: **80223**
Prep Date: Analysis Date: **7/31/2021** SeqNo: **2825300** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1100	20	400.0	820.8	80.8	70	130			
Toluene	1600	20	400.0	1269	71.3	70	130			
Surr: 1,2-Dichloroethane-d4	170		200.0		85.5	70	130			
Surr: 4-Bromofluorobenzene	200		200.0		102	70	130			
Surr: Dibromofluoromethane	160		200.0		81.0	70	130			
Surr: Toluene-d8	200		200.0		99.5	70	130			

Sample ID: **2107B97-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **Pre-Treatment** Batch ID: **SL80223** RunNo: **80223**
Prep Date: Analysis Date: **7/31/2021** SeqNo: **2825302** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1100	20	400.0	820.8	76.3	70	130	1.57	20	
Toluene	1500	20	400.0	1269	60.5	70	130	2.80	20	S
Surr: 1,2-Dichloroethane-d4	170		200.0		85.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		102	70	130	0	0	
Surr: Dibromofluoromethane	170		200.0		83.7	70	130	0	0	
Surr: Toluene-d8	190		200.0		96.8	70	130	0	0	

Sample ID: **100ng 8260 lcs2** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL80223** RunNo: **80223**
Prep Date: Analysis Date: **7/30/2021** SeqNo: **2825393** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.8	70	130			
Toluene	19	1.0	20.00	0	96.3	70	130			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	8.4		10.00		83.8	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL80223** RunNo: **80223**
Prep Date: Analysis Date: **7/30/2021** SeqNo: **2825395** 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#: **2107B97**
04-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL80223** RunNo: **80223**
Prep Date: Analysis Date: **7/30/2021** SeqNo: **2825395** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	8.4		10.00		84.0	70	130			
Surr: Toluene-d8	10		10.00		99.8	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#: **2107B97**
04-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc

Sample ID: **100ng 8260 lcs2** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **B80223** RunNo: **80223**
Prep Date: Analysis Date: **7/30/2021** SeqNo: **2825235** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.8	70	130			
Toluene	19	1.0	20.00	0	96.3	70	130			
Chlorobenzene	19	1.0	20.00	0	92.8	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	79.0	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	84.1	70	130			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	8.4		10.00		83.8	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B80223** RunNo: **80223**
Prep Date: Analysis Date: **7/30/2021** SeqNo: **2825236** 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:

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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#: **2107B97**
04-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B80223**	RunNo: **80223**
Prep Date:	Analysis Date: **7/30/2021**	SeqNo: **2825236** 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:

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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#: **2107B97**
04-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B80223** RunNo: **80223**
Prep Date: Analysis Date: **7/30/2021** SeqNo: **2825236** 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	8.5		10.00		85.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	8.4		10.00		84.0	70	130			
Surr: Toluene-d8	10		10.00		99.8	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2107B97** RcptNo: **1**

Received By: **Juan Rojas** **7/23/2021 10:25:00 AM**

Completed By: **Isaiah Ortiz** **7/23/2021 11:22:31 AM**

Reviewed By: DAD 7/23/21

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. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ SPA 7.23.21 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 (<2 or >12 unless noted)
Adjusted? NO
Checked by: SPA 7.23.21

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: All VOAs From Samples 002, 003, & 004 Have Bubbles > 1/4 inch. SPA 7.23.21
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway, Suite 106 Marietta GA 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnapp@earthcon.com; Diamond@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 #: 02.2062.003700 Monthly Discharge H2O Sampling July 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PG
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 1.3-0=1.3 (°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 Name	Container Type and #	Preservative Type	HEAL No. 2107B97	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	O - Phosphorus	Bromide
07/22/21	7:10	H_2O	Pre-Treatment	3x40mL VOAs	HCl	001	X														
07/22/21	7:15	H_2O	Post Air Stripper	↓	↓	002	X														
07/22/21	7:25	H_2O	Between GAC's			003	X														
07/22/21	7:30	H_2O	Post Treatment			004							X	X			✱				
↓	7:30	H_2O	↓	1x250 mL HDPE	None	↓							X				X	X	X	X	X
↓	7:30	H_2O	↓	↓	H_2SO_4	↓							X				X	X	X	X	X
↓	7:30	H_2O	↓	↓	HNO_3	↓							X				X	X	X	X	X
			Trip Blank	2x40mL VOAs	HCl	005															

Date: 07/22/21 Time: 16:00 Relinquished by:
Date: Time: Relinquished by:

Received by: Via: UPS Date: 7/23/21 Time: 10:25
Received by: Via: Date: Time:

Remarks: Send Results ASAP To: SWeberSnapp@EarthCon.com
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: clients.hallenvironmental.com

April 20, 2021

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: TWP Roswell Station 9 OrderNo.: 2104548

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/13/2021 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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: TWP Roswell Station 9
Collection Date: 4/12/2021 9:35:00 AM
Lab ID: 2104548-001 **Matrix:** AQUEOUS **Received Date:** 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	890	100		µg/L	100	4/16/2021 2:40:53 PM	B76756
Toluene	1800	100		µg/L	100	4/16/2021 2:40:53 PM	B76756
Ethylbenzene	85	50		µg/L	100	4/16/2021 2:40:53 PM	B76756
Xylenes, Total	2400	200		µg/L	100	4/16/2021 2:40:53 PM	B76756
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	100	4/16/2021 2:40:53 PM	B76756

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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Air Stripper
Project: TWP Roswell Station 9
Collection Date: 4/12/2021 9:40:00 AM
Lab ID: 2104548-002 **Matrix:** AQUEOUS **Received Date:** 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	12	1.0		µg/L	1	4/16/2021 3:51:59 PM	B76756
Toluene	23	1.0		µg/L	1	4/16/2021 3:51:59 PM	B76756
Ethylbenzene	1.1	1.0		µg/L	1	4/16/2021 3:51:59 PM	B76756
Xylenes, Total	39	2.0		µg/L	1	4/16/2021 3:51:59 PM	B76756
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/16/2021 3:51:59 PM	B76756

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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GAC's
Project: TWP Roswell Station 9
Collection Date: 4/12/2021 9:45:00 AM
Lab ID: 2104548-003 **Matrix:** AQUEOUS **Received Date:** 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.5	1.0		µg/L	1	4/16/2021 4:15:29 PM	B76756
Toluene	ND	1.0		µg/L	1	4/16/2021 4:15:29 PM	B76756
Ethylbenzene	ND	1.0		µg/L	1	4/16/2021 4:15:29 PM	B76756
Xylenes, Total	ND	2.0		µg/L	1	4/16/2021 4:15:29 PM	B76756
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	4/16/2021 4:15:29 PM	B76756

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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: TWP Roswell Station 9
Collection Date: 4/12/2021 9:50:00 AM
Lab ID: 2104548-004 **Matrix:** AQUEOUS **Received Date:** 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Fluoride	1.3	0.10		mg/L	1	4/13/2021 5:41:19 PM	R76650
Chloride	370	25	*	mg/L	50	4/14/2021 9:44:28 PM	R76684
Bromide	0.48	0.10		mg/L	1	4/13/2021 5:41:19 PM	R76650
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	4/13/2021 5:41:19 PM	R76650
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	4/13/2021 5:41:19 PM	R76650
Sulfate	1100	25	*	mg/L	50	4/14/2021 9:44:28 PM	R76684
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	400	5.0		mg/L	5	4/15/2021 11:36:08 AM	A76695
Magnesium	110	5.0		mg/L	5	4/15/2021 11:36:08 AM	A76695
Potassium	8.1	1.0		mg/L	1	4/15/2021 1:47:46 PM	B76695
Sodium	230	5.0		mg/L	5	4/15/2021 11:36:08 AM	A76695
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Toluene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Ethylbenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Naphthalene	ND	2.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1-Methylnaphthalene	ND	4.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
2-Methylnaphthalene	ND	4.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Acetone	ND	10		µg/L	1	4/17/2021 3:58:58 AM	E76759
Bromobenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Bromodichloromethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Bromoform	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Bromomethane	ND	3.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
2-Butanone	ND	10		µg/L	1	4/17/2021 3:58:58 AM	E76759
Carbon disulfide	ND	10		µg/L	1	4/17/2021 3:58:58 AM	E76759
Carbon Tetrachloride	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Chlorobenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Chloroethane	ND	2.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Chloroform	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Chloromethane	ND	3.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
2-Chlorotoluene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
4-Chlorotoluene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
cis-1,2-DCE	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759

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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: TWP Roswell Station 9
Collection Date: 4/12/2021 9:50:00 AM
Lab ID: 2104548-004 **Matrix:** AQUEOUS **Received Date:** 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Dibromochloromethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Dibromomethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,1-Dichloroethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,1-Dichloroethene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2-Dichloropropane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,3-Dichloropropane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
2,2-Dichloropropane	ND	2.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,1-Dichloropropene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Hexachlorobutadiene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
2-Hexanone	ND	10		µg/L	1	4/17/2021 3:58:58 AM	E76759
Isopropylbenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
4-Isopropyltoluene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
4-Methyl-2-pentanone	ND	10		µg/L	1	4/17/2021 3:58:58 AM	E76759
Methylene Chloride	ND	3.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
n-Butylbenzene	ND	3.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
n-Propylbenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
sec-Butylbenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Styrene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
tert-Butylbenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
trans-1,2-DCE	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Trichlorofluoromethane	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Vinyl chloride	ND	1.0		µg/L	1	4/17/2021 3:58:58 AM	E76759
Xylenes, Total	ND	1.5		µg/L	1	4/17/2021 3:58:58 AM	E76759

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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: TWP Roswell Station 9
Collection Date: 4/12/2021 9:50:00 AM
Lab ID: 2104548-004 **Matrix:** AQUEOUS **Received Date:** 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	4/17/2021 3:58:58 AM	E76759
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	4/17/2021 3:58:58 AM	E76759
Surr: Dibromofluoromethane	109	70-130		%Rec	1	4/17/2021 3:58:58 AM	E76759
Surr: Toluene-d8	99.5	70-130		%Rec	1	4/17/2021 3:58:58 AM	E76759

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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: TWP Roswell Station 9
Collection Date:
Lab ID: 2104548-005 **Matrix:** TRIP BLANK **Received Date:** 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Toluene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Ethylbenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Naphthalene	ND	2.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1-Methylnaphthalene	ND	4.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
2-Methylnaphthalene	ND	4.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Acetone	ND	10		µg/L	1	4/17/2021 4:26:06 AM	E76759
Bromobenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Bromodichloromethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Bromoform	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Bromomethane	ND	3.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
2-Butanone	ND	10		µg/L	1	4/17/2021 4:26:06 AM	E76759
Carbon disulfide	ND	10		µg/L	1	4/17/2021 4:26:06 AM	E76759
Carbon Tetrachloride	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Chlorobenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Chloroethane	ND	2.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Chloroform	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Chloromethane	ND	3.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
2-Chlorotoluene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
4-Chlorotoluene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
cis-1,2-DCE	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Dibromochloromethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Dibromomethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,1-Dichloroethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,1-Dichloroethene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2-Dichloropropane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,3-Dichloropropane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
2,2-Dichloropropane	ND	2.0		µg/L	1	4/17/2021 4:26:06 AM	E76759

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 **2104548**
Date Reported: **4/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: TWP Roswell Station 9
Collection Date:
Lab ID: 2104548-005
Matrix: TRIP BLANK
Received Date: 4/13/2021 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **BRM**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Hexachlorobutadiene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
2-Hexanone	ND	10		µg/L	1	4/17/2021 4:26:06 AM	E76759
Isopropylbenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
4-Isopropyltoluene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
4-Methyl-2-pentanone	ND	10		µg/L	1	4/17/2021 4:26:06 AM	E76759
Methylene Chloride	ND	3.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
n-Butylbenzene	ND	3.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
n-Propylbenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
sec-Butylbenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Styrene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
tert-Butylbenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
trans-1,2-DCE	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Trichlorofluoromethane	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Vinyl chloride	ND	1.0		µg/L	1	4/17/2021 4:26:06 AM	E76759
Xylenes, Total	ND	1.5		µg/L	1	4/17/2021 4:26:06 AM	E76759
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	4/17/2021 4:26:06 AM	E76759
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	4/17/2021 4:26:06 AM	E76759
Surr: Dibromofluoromethane	122	70-130		%Rec	1	4/17/2021 4:26:06 AM	E76759
Surr: Toluene-d8	100	70-130		%Rec	1	4/17/2021 4:26:06 AM	E76759

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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **2104548-004CMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post-Treatment** Batch ID: **A76695** RunNo: **76695**
Prep Date: Analysis Date: **4/15/2021** SeqNo: **2717777** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	660	5.0	250.0	402.1	105	70	130			E
Magnesium	390	5.0	250.0	112.3	110	70	130			
Sodium	480	5.0	250.0	230.4	102	70	130			

Sample ID: **2104548-004CMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post-Treatment** Batch ID: **A76695** RunNo: **76695**
Prep Date: Analysis Date: **4/15/2021** SeqNo: **2717778** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	670	5.0	250.0	402.1	109	70	130	1.49	20	E
Magnesium	390	5.0	250.0	112.3	113	70	130	1.73	20	
Sodium	510	5.0	250.0	230.4	110	70	130	4.16	20	E

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A76695** RunNo: **76695**
Prep Date: Analysis Date: **4/15/2021** SeqNo: **2717810** 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								
Sodium	ND	1.0								

Sample ID: **LLLCS** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A76695** RunNo: **76695**
Prep Date: Analysis Date: **4/15/2021** SeqNo: **2717811** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	103	50	150			
Magnesium	ND	1.0	0.5000	0	79.1	50	150			
Sodium	ND	1.0	0.5000	0	91.0	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A76695** RunNo: **76695**
Prep Date: Analysis Date: **4/15/2021** SeqNo: **2717812** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	53	1.0	50.00	0	105	85	115			
Magnesium	52	1.0	50.00	0	104	85	115			
Sodium	53	1.0	50.00	0	105	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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**							
Client ID: **PBW**	Batch ID: **B76695**	RunNo: **76695**							
Prep Date:	Analysis Date: **4/15/2021**	SeqNo: **2718500**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	ND	1.0								

Sample ID: **LLLCS**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**							
Client ID: **BatchQC**	Batch ID: **B76695**	RunNo: **76695**							
Prep Date:	Analysis Date: **4/15/2021**	SeqNo: **2718502**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	ND	1.0	0.5000	0	75.2	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**							
Client ID: **LCSW**	Batch ID: **B76695**	RunNo: **76695**							
Prep Date:	Analysis Date: **4/15/2021**	SeqNo: **2718504**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	49	1.0	50.00	0	98.8	85	115			

Sample ID: **2104548-004CMS**	SampType: **MS**	TestCode: **EPA Method 200.7: Dissolved Metals**							
Client ID: **Post-Treatment**	Batch ID: **B76695**	RunNo: **76695**							
Prep Date:	Analysis Date: **4/15/2021**	SeqNo: **2718519**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	73	1.0	50.00	8.141	130	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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R76650**	RunNo: **76650**							
Prep Date:	Analysis Date: **4/13/2021**	SeqNo: **2716060**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	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: **R76650**	RunNo: **76650**							
Prep Date:	Analysis Date: **4/13/2021**	SeqNo: **2716061**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.2	90	110			
Bromide	2.5	0.10	2.500	0	100	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	91.7	90	110			

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R76684**	RunNo: **76684**							
Prep Date:	Analysis Date: **4/14/2021**	SeqNo: **2717051**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R76684**	RunNo: **76684**							
Prep Date:	Analysis Date: **4/14/2021**	SeqNo: **2717053**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.8	90	110			
Sulfate	9.8	0.50	10.00	0	98.0	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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW** Batch ID: **B76756** RunNo: **76756**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720073** 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		95.2	70	130			

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW** Batch ID: **B76756** RunNo: **76756**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720074** 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	80	120			
Toluene	19	1.0	20.00	0	95.3	80	120			
Ethylbenzene	19	1.0	20.00	0	94.7	80	120			
Xylenes, Total	57	2.0	60.00	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		95.7	70	130			

Sample ID: **2104548-001ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Pre-Treatment** Batch ID: **B76756** RunNo: **76756**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720081** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2900	100	2000	892.0	99.6	80	120			
Toluene	3800	100	2000	1760	101	80	120			
Ethylbenzene	2000	100	2000	85.40	96.0	80	120			
Xylenes, Total	8200	200	6000	2416	96.2	80	120			
Surr: 4-Bromofluorobenzene	2100		2000		103	70	130			

Sample ID: **2104548-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **Pre-Treatment** Batch ID: **B76756** RunNo: **76756**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720082** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2800	100	2000	892.0	95.4	80	120	2.96	20	
Toluene	3700	100	2000	1760	97.5	80	120	1.60	20	
Ethylbenzene	2000	100	2000	85.40	93.7	80	120	2.32	20	
Xylenes, Total	8100	200	6000	2416	94.1	80	120	1.60	20	
Surr: 4-Bromofluorobenzene	2000		2000		102	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **E76759** RunNo: **76759**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720158** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	19	1.0	20.00	0	93.8	70	130			
Chlorobenzene	19	1.0	20.00	0	92.7	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.3	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.6	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.8		10.00		97.8	70	130			

Sample ID: **100ng lcs4** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **A76759** RunNo: **76759**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720159** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	8.6		10.00		86.2	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Sample ID: **2104548-004a ms** SampType: **MS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Post-Treatment** Batch ID: **E76759** RunNo: **76759**
Prep Date: Analysis Date: **4/17/2021** SeqNo: **2720177** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	70	130			
Toluene	19	1.0	20.00	0	96.4	70	130			
Chlorobenzene	19	1.0	20.00	0	93.2	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	88.7	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	12		10.00		116	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Sample ID: **2104548-004a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Post-Treatment** Batch ID: **E76759** RunNo: **76759**
Prep Date: Analysis Date: **4/17/2021** SeqNo: **2720178** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **2104548-004a msd** SampType: **MSD** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **Post-Treatment** Batch ID: **E76759** RunNo: **76759**
Prep Date: Analysis Date: **4/17/2021** SeqNo: **2720178** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	70	130	3.42	20	
Toluene	18	1.0	20.00	0	91.5	70	130	5.17	20	
Chlorobenzene	17	1.0	20.00	0	86.3	70	130	7.76	20	
1,1-Dichloroethene	17	1.0	20.00	0	84.0	70	130	5.43	20	
Trichloroethene (TCE)	19	1.0	20.00	0	96.9	70	130	6.57	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		115	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		96.7	70	130	0	0	

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A76759** RunNo: **76759**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720185** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **E76759** RunNo: **76759**
Prep Date: Analysis Date: **4/16/2021** SeqNo: **2720186** 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								

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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **E76759**	RunNo: **76759**
Prep Date:	Analysis Date: **4/16/2021**	SeqNo: **2720186** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								

Qualifiers:

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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#: **2104548**
20-Apr-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **E76759**	RunNo: **76759**
Prep Date:	Analysis Date: **4/16/2021**	SeqNo: **2720186** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		115	70	130			
Surr: Toluene-d8	10		10.00		100	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2104548** RcptNo: **1**

Received By: **Juan Rojas** **4/13/2021 10:20:00 AM** Juan Rojas

Completed By: **Sean Livingston** **4/13/2021 11:23:17 AM** Sean Livingston

Reviewed By: JO 4/13/21

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. 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
(<2 or >12 unless noted)
Adjusted? NO
Checked by: DAD 4/13/21
DAD 4/13/21

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	0.3	Good				

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1380 West Oak Parkway, Suite 108 Marietta, Ga 30062
Phone #: 770-973-2100
email or Fax#: Sweberssnapp@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 monthly Discharge Water Sampling April 2021
Project Manager: Sofie Weber-Snapp
Sampler:
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 0.4-0.1=0.3 (°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 Name	Container Type and #	Preservative Type	HEAL No. 2104548	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) Fluorosr	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Dissolved metals: Ca, Mg, K, Na	* Fe, Mn	O - Phosphorus	Bromide
04/12/2021	0935	H2O	Pre-Treatment	3x 40mL VOAs	HCl	001	X													
04/12/2021	0940	H2O	Post Air Stripper		HCl	002	X													
04/12/2021	0945	H2O	Between GAC's		HCl	003	X													
04/12/2021	0950	H2O	Post-Treatment		HCl	004								X						
				1x 500mL HDPE	None								X				X	X	X	X	X
				1x 250mL HDPE	H_2SO_4								X				X	X	X	X	X
				1x 250mL HDPE	HNO_3								X				X	X	X	X	X
			Trip Blank			-5															

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
04/12/2021	10:45			UPS	4/13/21	10:20
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Send Results ASAP To: Sweberssnapp@EarthCon.com
Any Questions? Please Call Chris @ 575.626.1611

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: clients.hallenvironmental.com

July 02, 2021

Sofie Weber-Snapp
Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2106921

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/17/2021 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 **2106921**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 6/15/2021 2:00:00 PM
Lab ID: 2106921-001 **Matrix:** AQUEOUS **Received Date:** 6/17/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	2400	200		µg/L	200	6/23/2021 2:53:39 PM	S79322
Toluene	3200	200		µg/L	200	6/23/2021 2:53:39 PM	S79322
Ethylbenzene	140	20		µg/L	20	6/23/2021 5:21:20 AM	B79278
Xylenes, Total	2600	30		µg/L	20	6/23/2021 5:21:20 AM	B79278
Surr: 1,2-Dichloroethane-d4	128	70-130		%Rec	20	6/23/2021 5:21:20 AM	B79278
Surr: Dibromofluoromethane	101	70-130		%Rec	20	6/23/2021 5:21:20 AM	B79278
Surr: Toluene-d8	111	70-130		%Rec	20	6/23/2021 5:21:20 AM	B79278

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 **2106921**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Air Stripper
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 6/15/2021 2:05:00 PM
Lab ID: 2106921-002 **Matrix:** AQUEOUS **Received Date:** 6/17/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	7.7	1.0		µg/L	1	6/23/2021 6:47:22 AM	B79278
Toluene	9.3	1.0		µg/L	1	6/23/2021 6:47:22 AM	B79278
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 6:47:22 AM	B79278
Xylenes, Total	9.0	1.5		µg/L	1	6/23/2021 6:47:22 AM	B79278
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	1	6/23/2021 6:47:22 AM	B79278
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/23/2021 6:47:22 AM	B79278
Surr: Toluene-d8	107	70-130		%Rec	1	6/23/2021 6:47:22 AM	B79278

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 **2106921**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GACs
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 6/15/2021 2:10:00 PM
Lab ID: 2106921-003 **Matrix:** AQUEOUS **Received Date:** 6/17/2021 9:20:00 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	6/23/2021 7:16:01 AM	B79278
Toluene	ND	1.0		µg/L	1	6/23/2021 7:16:01 AM	B79278
Ethylbenzene	ND	1.0		µg/L	1	6/23/2021 7:16:01 AM	B79278
Xylenes, Total	ND	1.5		µg/L	1	6/23/2021 7:16:01 AM	B79278
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	1	6/23/2021 7:16:01 AM	B79278
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/23/2021 7:16:01 AM	B79278
Surr: Toluene-d8	111	70-130		%Rec	1	6/23/2021 7:16:01 AM	B79278

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 **2106921**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 6/15/2021 2:15:00 PM
Lab ID: 2106921-004 **Matrix:** AQUEOUS **Received Date:** 6/17/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Fluoride	1.1	0.10		mg/L	1	6/18/2021 3:32:17 AM	R79172
Chloride	380	25	*	mg/L	50	6/23/2021 6:08:59 PM	R79321
Bromide	0.54	0.10		mg/L	1	6/18/2021 3:32:17 AM	R79172
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/18/2021 3:32:17 AM	R79172
Sulfate	1000	25	*	mg/L	50	6/23/2021 6:08:59 PM	R79321
Nitrate+Nitrite as N	ND	1.0		mg/L	5	6/25/2021 5:10:32 AM	A79355
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	370	5.0		mg/L	5	6/18/2021 10:50:10 AM	A79194
Magnesium	120	5.0		mg/L	5	6/18/2021 10:50:10 AM	A79194
Potassium	6.3	1.0		mg/L	1	6/18/2021 10:48:32 AM	A79194
Sodium	220	5.0		mg/L	5	6/18/2021 10:50:10 AM	A79194
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Benzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Toluene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Ethylbenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Naphthalene	ND	2.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1-Methylnaphthalene	ND	4.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
2-Methylnaphthalene	ND	4.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Acetone	ND	10		µg/L	1	6/21/2021 7:34:24 PM	A79248
Bromobenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Bromodichloromethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Bromoform	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Bromomethane	ND	3.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
2-Butanone	ND	10		µg/L	1	6/21/2021 7:34:24 PM	A79248
Carbon disulfide	ND	10		µg/L	1	6/21/2021 7:34:24 PM	A79248
Carbon Tetrachloride	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Chlorobenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Chloroethane	ND	2.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Chloroform	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Chloromethane	ND	3.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
2-Chlorotoluene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
4-Chlorotoluene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
cis-1,2-DCE	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248

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 **2106921**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 6/15/2021 2:15:00 PM
Lab ID: 2106921-004 **Matrix:** AQUEOUS **Received Date:** 6/17/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Dibromochloromethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Dibromomethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,1-Dichloroethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,1-Dichloroethene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2-Dichloropropane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,3-Dichloropropane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
2,2-Dichloropropane	ND	2.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,1-Dichloropropene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Hexachlorobutadiene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
2-Hexanone	ND	10		µg/L	1	6/21/2021 7:34:24 PM	A79248
Isopropylbenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
4-Isopropyltoluene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
4-Methyl-2-pentanone	ND	10		µg/L	1	6/21/2021 7:34:24 PM	A79248
Methylene Chloride	ND	3.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
n-Butylbenzene	ND	3.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
n-Propylbenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
sec-Butylbenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Styrene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
tert-Butylbenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
trans-1,2-DCE	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Trichlorofluoromethane	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Vinyl chloride	ND	1.0		µg/L	1	6/21/2021 7:34:24 PM	A79248
Xylenes, Total	ND	1.5		µg/L	1	6/21/2021 7:34:24 PM	A79248

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 **2106921**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 6/15/2021 2:15:00 PM
Lab ID: 2106921-004 **Matrix:** AQUEOUS **Received Date:** 6/17/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMR**	
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	6/21/2021 7:34:24 PM	A79248
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/21/2021 7:34:24 PM	A79248
Surr: Dibromofluoromethane	95.0	70-130		%Rec	1	6/21/2021 7:34:24 PM	A79248
Surr: Toluene-d8	107	70-130		%Rec	1	6/21/2021 7:34:24 PM	A79248

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 **2106921**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Field Blank
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 6/15/2021 3:45:00 PM
Lab ID: 2106921-005 **Matrix:** AQUEOUS **Received Date:** 6/17/2021 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **JMR**	
Benzene	ND	1.0	P	µg/L	1	6/23/2021 7:44:33 AM	B79278
Toluene	ND	1.0	P	µg/L	1	6/23/2021 7:44:33 AM	B79278
Ethylbenzene	ND	1.0	P	µg/L	1	6/23/2021 7:44:33 AM	B79278
Xylenes, Total	ND	1.5	P	µg/L	1	6/23/2021 7:44:33 AM	B79278
Surr: 1,2-Dichloroethane-d4	110	70-130	P	%Rec	1	6/23/2021 7:44:33 AM	B79278
Surr: Dibromofluoromethane	99.2	70-130	P	%Rec	1	6/23/2021 7:44:33 AM	B79278
Surr: Toluene-d8	108	70-130	P	%Rec	1	6/23/2021 7:44:33 AM	B79278

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#: **2106921**
02-Jul-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A79194**	RunNo: **79194**
Prep Date:	Analysis Date: **6/18/2021**	SeqNo: **2779604** 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**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A79194**	RunNo: **79194**
Prep Date:	Analysis Date: **6/18/2021**	SeqNo: **2779606** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	103	50	150			
Magnesium	ND	1.0	0.5000	0	102	50	150			
Potassium	ND	1.0	0.5000	0	99.0	50	150			
Sodium	ND	1.0	0.5000	0	93.4	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A79194**	RunNo: **79194**
Prep Date:	Analysis Date: **6/18/2021**	SeqNo: **2779608** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	99.5	85	115			
Magnesium	50	1.0	50.00	0	99.3	85	115			
Potassium	49	1.0	50.00	0	98.9	85	115			
Sodium	50	1.0	50.00	0	99.5	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#: **2106921**
02-Jul-21

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: **R79172** RunNo: **79172**
Prep Date: Analysis Date: **6/17/2021** SeqNo: **2778830** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
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: **R79172** RunNo: **79172**
Prep Date: Analysis Date: **6/17/2021** SeqNo: **2778832** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	101	90	110			
Bromide	2.4	0.10	2.500	0	95.9	90	110			
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	90.6	90	110			

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R79321** RunNo: **79321**
Prep Date: Analysis Date: **6/23/2021** SeqNo: **2786128** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R79321** RunNo: **79321**
Prep Date: Analysis Date: **6/23/2021** SeqNo: **2786129** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.2	90	110			
Sulfate	9.6	0.50	10.00	0	96.3	90	110			

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **A79355** RunNo: **79355**
Prep Date: Analysis Date: **6/24/2021** SeqNo: **2787937** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

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#: **2106921**
02-Jul-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **LCS**	SampType: **lcs**			TestCode: **EPA Method 300.0: Anions**						
Client ID: **LCSW**	Batch ID: **A79355**			RunNo: **79355**						
Prep Date:	Analysis Date: **6/24/2021**			SeqNo: **2787938**		Units: **mg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	96.0	90	110			

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#: **2106921**

02-Jul-21

Client: Earth Con

Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs2** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **LCSW** Batch ID: **B79278** RunNo: **79278**

Prep Date: Analysis Date: **6/23/2021** SeqNo: **2784591** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	22	1.0	20.00	0	112	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.2	70	130			
Surr: Toluene-d8	11		10.00		108	70	130			

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **PBW** Batch ID: **B79278** RunNo: **79278**

Prep Date: Analysis Date: **6/23/2021** SeqNo: **2784593** 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		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.5	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID: **2106921-001ams** SampType: **MS** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **Pre-Treatment** Batch ID: **B79278** RunNo: **79278**

Prep Date: Analysis Date: **6/23/2021** SeqNo: **2784614** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2700	20	400.0	2489	61.3	70	130			ES
Toluene	3500	20	400.0	3217	64.3	70	130			ES
Surr: 1,2-Dichloroethane-d4	220		200.0		110	70	130			
Surr: 4-Bromofluorobenzene	210		200.0		107	70	130			
Surr: Dibromofluoromethane	190		200.0		96.2	70	130			
Surr: Toluene-d8	220		200.0		112	70	130			

Sample ID: **2106921-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**

Client ID: **Pre-Treatment** Batch ID: **B79278** RunNo: **79278**

Prep Date: Analysis Date: **6/23/2021** SeqNo: **2784615** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2800	20	400.0	2489	77.6	70	130	2.36	20	E
Toluene	3400	20	400.0	3217	37.8	70	130	3.10	20	ES

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#: **2106921**
02-Jul-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **2106921-001amsd** SampType: **MSD** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **Pre-Treatment** Batch ID: **B79278** RunNo: **79278**
Prep Date: Analysis Date: **6/23/2021** SeqNo: **2784615** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	240		200.0		119	70	130	0	0	
Surr: 4-Bromofluorobenzene	190		200.0		96.9	70	130	0	0	
Surr: Dibromofluoromethane	210		200.0		103	70	130	0	0	
Surr: Toluene-d8	210		200.0		105	70	130	0	0	

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **S79322** RunNo: **79322**
Prep Date: Analysis Date: **6/23/2021** SeqNo: **2786189** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **S79322** RunNo: **79322**
Prep Date: Analysis Date: **6/23/2021** SeqNo: **2786190** 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								
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.9	70	130			
Surr: Toluene-d8	10		10.00		104	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#: **2106921**
02-Jul-21

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: **A79248** RunNo: **79248**
Prep Date: Analysis Date: **6/21/2021** SeqNo: **2783036** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.7	70	130			
Toluene	22	1.0	20.00	0	111	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	99.2	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.7	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **A79248** RunNo: **79248**
Prep Date: Analysis Date: **6/21/2021** SeqNo: **2783037** 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#: **2106921**
02-Jul-21

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: **A79248**	RunNo: **79248**	
Prep Date:	Analysis Date: **6/21/2021**	SeqNo: **2783037**	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#: **2106921**
02-Jul-21

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: **A79248**	RunNo: **79248**
Prep Date:	Analysis Date: **6/21/2021**	SeqNo: **2783037** 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	12		10.00		120	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.2	70	130			
Surr: Toluene-d8	10		10.00		103	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2106921** RcptNo: **1**

Received By: **Juan Rojas** **6/17/2021 9:20:00 AM**

Completed By: **Desiree Dominguez** **6/17/2021 11:01:28 AM**

Reviewed By: SPA 6.17.21

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. 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 (<2 or >12 unless noted)

Adjusted? NO

Checked by: CM 6/17/21

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	0.5	Good				

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway, Suite 106 Marietta, Ga 30062
Phone #: 770-973-2100
email or Fax#: Sweber snapp@earthcon.com; Diamond@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 #: 02:2012.003700 Monthly Discharge Water Sampling June 2021
Project Manager: Sofie Weber-Snapp
Sampler:
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 0.5-0=0.5 (°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. 2106921	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	O-Phosphorus	* Field Filtered		
06/15/2021	1400	H2O	Pre-Treatment	3x 40mL VOA's	HCl	-001	X															
06/15/2021	1405	H2O	Post-Air Stripper			-002	X															
06/15/2021	1410	H2O	Between GAC's			-003	X															
06/15/21	1415	H2O	Post-Treatment	3x 40mL VOA's	HCl	-004								X								
06/15/21	1415	H2O	Post Treatment	2x 500mL HDPE	None / H_2SO_4								X									
06/15/21	1415	H2O	Post-Treatment	1x 250mL HDPE	HNO_3												X	X	X	X		
																	Pres CMB 6.17.21					
06/15/21	1545	H2O	Field Blank	3x 40mL VOA's	HCl	-005	X															

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
06/16/21	1605			UPS	6/17/21	9:70
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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 25, 2021

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Con Consultants Inc TWP Roswell Station 9 OrderNo.: 2108981

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/18/2021 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 **2108981**
Date Reported: **8/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 8/17/2021 6:20:00 AM
Lab ID: 2108981-001 **Matrix:** AQUEOUS **Received Date:** 8/18/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	710	10		µg/L	20	8/19/2021 9:58:00 PM	SL80650
Toluene	500	20		µg/L	20	8/19/2021 9:58:00 PM	SL80650
Ethylbenzene	53	20		µg/L	20	8/19/2021 9:58:00 PM	SL80650
Xylenes, Total	970	30		µg/L	20	8/19/2021 9:58:00 PM	SL80650
Surr: 1,2-Dichloroethane-d4	79.7	70-130		%Rec	20	8/19/2021 9:58:00 PM	SL80650
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	20	8/19/2021 9:58:00 PM	SL80650
Surr: Dibromofluoromethane	78.5	70-130		%Rec	20	8/19/2021 9:58:00 PM	SL80650
Surr: Toluene-d8	99.8	70-130		%Rec	20	8/19/2021 9:58:00 PM	SL80650

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 **2108981**
Date Reported: **8/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Air Stripper
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 8/17/2021 6:25:00 AM
Lab ID: 2108981-002 **Matrix:** AQUEOUS **Received Date:** 8/18/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	6.9	1.0		µg/L	1	8/19/2021 11:54:00 PM	SL80650
Toluene	5.3	1.0		µg/L	1	8/19/2021 11:54:00 PM	SL80650
Ethylbenzene	ND	1.0		µg/L	1	8/19/2021 11:54:00 PM	SL80650
Xylenes, Total	12	1.5		µg/L	1	8/19/2021 11:54:00 PM	SL80650
Surr: 1,2-Dichloroethane-d4	80.3	70-130		%Rec	1	8/19/2021 11:54:00 PM	SL80650
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	8/19/2021 11:54:00 PM	SL80650
Surr: Dibromofluoromethane	79.9	70-130		%Rec	1	8/19/2021 11:54:00 PM	SL80650
Surr: Toluene-d8	98.3	70-130		%Rec	1	8/19/2021 11:54:00 PM	SL80650

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 **2108981**
Date Reported: **8/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GACs
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 8/17/2021 6:30:00 AM
Lab ID: 2108981-003 **Matrix:** AQUEOUS **Received Date:** 8/18/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	1.6	1.0		µg/L	1	8/20/2021 12:18:00 AM	SL80650
Toluene	ND	1.0		µg/L	1	8/20/2021 12:18:00 AM	SL80650
Ethylbenzene	ND	1.0		µg/L	1	8/20/2021 12:18:00 AM	SL80650
Xylenes, Total	ND	1.5		µg/L	1	8/20/2021 12:18:00 AM	SL80650
Surr: 1,2-Dichloroethane-d4	82.8	70-130		%Rec	1	8/20/2021 12:18:00 AM	SL80650
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	8/20/2021 12:18:00 AM	SL80650
Surr: Dibromofluoromethane	79.1	70-130		%Rec	1	8/20/2021 12:18:00 AM	SL80650
Surr: Toluene-d8	99.4	70-130		%Rec	1	8/20/2021 12:18:00 AM	SL80650

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 **2108981**
Date Reported: **8/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 8/17/2021 6:40:00 AM
Lab ID: 2108981-004 **Matrix:** AQUEOUS **Received Date:** 8/18/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	440	5.0		mg/L	5	8/19/2021 9:13:03 AM	A80648
Magnesium	130	5.0		mg/L	5	8/19/2021 9:13:03 AM	A80648
Potassium	7.1	1.0		mg/L	1	8/19/2021 9:08:35 AM	A80648
Sodium	210	5.0		mg/L	5	8/19/2021 9:13:03 AM	A80648
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Toluene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Ethylbenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Naphthalene	ND	2.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1-Methylnaphthalene	ND	4.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
2-Methylnaphthalene	ND	4.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Acetone	ND	10		µg/L	1	8/20/2021 12:41:00 AM	R80650
Bromobenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Bromodichloromethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Bromoform	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Bromomethane	ND	3.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
2-Butanone	ND	10		µg/L	1	8/20/2021 12:41:00 AM	R80650
Carbon disulfide	ND	10		µg/L	1	8/20/2021 12:41:00 AM	R80650
Carbon Tetrachloride	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Chlorobenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Chloroethane	ND	2.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Chloroform	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Chloromethane	ND	3.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
2-Chlorotoluene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
4-Chlorotoluene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
cis-1,2-DCE	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Dibromochloromethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Dibromomethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650

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 **2108981**
Date Reported: **8/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Con Consultants Inc TWP Roswell
Collection Date: 8/17/2021 6:40:00 AM
Lab ID: 2108981-004 **Matrix:** AQUEOUS **Received Date:** 8/18/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
1,1-Dichloroethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,1-Dichloroethene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2-Dichloropropane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,3-Dichloropropane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
2,2-Dichloropropane	ND	2.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,1-Dichloropropene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Hexachlorobutadiene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
2-Hexanone	ND	10		µg/L	1	8/20/2021 12:41:00 AM	R80650
Isopropylbenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
4-Isopropyltoluene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
4-Methyl-2-pentanone	ND	10		µg/L	1	8/20/2021 12:41:00 AM	R80650
Methylene Chloride	ND	3.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
n-Butylbenzene	ND	3.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
n-Propylbenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
sec-Butylbenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Styrene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
tert-Butylbenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
trans-1,2-DCE	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Trichlorofluoromethane	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Vinyl chloride	ND	1.0		µg/L	1	8/20/2021 12:41:00 AM	R80650
Xylenes, Total	ND	1.5		µg/L	1	8/20/2021 12:41:00 AM	R80650
Surr: 1,2-Dichloroethane-d4	83.7	70-130		%Rec	1	8/20/2021 12:41:00 AM	R80650
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	8/20/2021 12:41:00 AM	R80650
Surr: Dibromofluoromethane	82.8	70-130		%Rec	1	8/20/2021 12:41:00 AM	R80650
Surr: Toluene-d8	100	70-130		%Rec	1	8/20/2021 12:41:00 AM	R80650

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 **2108981**
Date Reported: **8/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 2108981-005
Matrix: TRIP BLANK
Received Date: 8/18/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Toluene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Ethylbenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Naphthalene	ND	2.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1-Methylnaphthalene	ND	4.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
2-Methylnaphthalene	ND	4.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Acetone	ND	10		µg/L	1	8/20/2021 1:04:00 AM	R80650
Bromobenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Bromodichloromethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Bromoform	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Bromomethane	ND	3.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
2-Butanone	ND	10		µg/L	1	8/20/2021 1:04:00 AM	R80650
Carbon disulfide	ND	10		µg/L	1	8/20/2021 1:04:00 AM	R80650
Carbon Tetrachloride	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Chlorobenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Chloroethane	ND	2.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Chloroform	2.9	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Chloromethane	ND	3.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
2-Chlorotoluene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
4-Chlorotoluene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
cis-1,2-DCE	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Dibromochloromethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Dibromomethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,1-Dichloroethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,1-Dichloroethene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2-Dichloropropane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,3-Dichloropropane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
2,2-Dichloropropane	ND	2.0		µg/L	1	8/20/2021 1:04:00 AM	R80650

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 **2108981**
Date Reported: **8/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: TRIP BLANK
Project: Earth Con Consultants Inc TWP Roswell
Collection Date:
Lab ID: 2108981-005
Matrix: TRIP BLANK
Received Date: 8/18/2021 9:10:00 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	8/20/2021 1:04:00 AM	R80650
Hexachlorobutadiene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
2-Hexanone	ND	10		µg/L	1	8/20/2021 1:04:00 AM	R80650
Isopropylbenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
4-Isopropyltoluene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
4-Methyl-2-pentanone	ND	10		µg/L	1	8/20/2021 1:04:00 AM	R80650
Methylene Chloride	ND	3.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
n-Butylbenzene	ND	3.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
n-Propylbenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
sec-Butylbenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Styrene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
tert-Butylbenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
trans-1,2-DCE	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Trichlorofluoromethane	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Vinyl chloride	ND	1.0		µg/L	1	8/20/2021 1:04:00 AM	R80650
Xylenes, Total	ND	1.5		µg/L	1	8/20/2021 1:04:00 AM	R80650
Surr: 1,2-Dichloroethane-d4	83.4	70-130		%Rec	1	8/20/2021 1:04:00 AM	R80650
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	8/20/2021 1:04:00 AM	R80650
Surr: Dibromofluoromethane	81.9	70-130		%Rec	1	8/20/2021 1:04:00 AM	R80650
Surr: Toluene-d8	97.9	70-130		%Rec	1	8/20/2021 1:04:00 AM	R80650

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#: **2108981**
25-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A80648** RunNo: **80648**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2844983** 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** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A80648** RunNo: **80648**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2844985** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	99.3	50	150			
Magnesium	ND	1.0	0.5000	0	99.9	50	150			
Potassium	ND	1.0	0.5000	0	87.1	50	150			
Sodium	ND	1.0	0.5000	0	99.5	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A80648** RunNo: **80648**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2844987** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	99.6	85	115			
Magnesium	50	1.0	50.00	0	99.2	85	115			
Potassium	48	1.0	50.00	0	96.6	85	115			
Sodium	49	1.0	50.00	0	97.8	85	115			

Sample ID: **2108981-004CMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post-Treatment** Batch ID: **A80648** RunNo: **80648**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2845036** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	60	1.0	50.00	7.101	106	70	130			

Sample ID: **2108981-004CMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post-Treatment** Batch ID: **A80648** RunNo: **80648**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2845037** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	59	1.0	50.00	7.101	105	70	130	0.807	20	

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#: **2108981**
25-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **2108981-004CMS** SampType: **MS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post-Treatment** Batch ID: **A80648** RunNo: **80648**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2845042** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	380	5.0	250.0	126.4	99.8	70	130			
Sodium	460	5.0	250.0	210.5	100	70	130			

Sample ID: **2108981-004CMSD** SampType: **MSD** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **Post-Treatment** Batch ID: **A80648** RunNo: **80648**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2845043** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	380	5.0	250.0	126.4	100	70	130	0.179	20	
Sodium	460	5.0	250.0	210.5	100	70	130	0.0473	20	

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#: **2108981**
25-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng 8260 lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL80650** RunNo: **80650**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2846273** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.0	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	8.2		10.00		81.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.4	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL80650** RunNo: **80650**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2846274** 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	8.3		10.00		83.2	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.0	70	130			
Surr: Dibromofluoromethane	8.2		10.00		82.4	70	130			
Surr: Toluene-d8	10		10.00		99.8	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#: **2108981**
25-Aug-21

Client: Earth Con
Project: Earth Con Consultants Inc TWP Roswell Station

Sample ID: **100ng 8260 lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R80650** RunNo: **80650**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2845155** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.0	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	20	1.0	20.00	0	98.4	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	83.2	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	84.3	70	130			
Surr: 1,2-Dichloroethane-d4	8.2		10.00		81.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.4	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R80650** RunNo: **80650**
Prep Date: Analysis Date: **8/19/2021** SeqNo: **2846221** 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#: **2108981**
25-Aug-21

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: **R80650**	RunNo: **80650**	
Prep Date:	Analysis Date: **8/19/2021**	SeqNo: **2846221**	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#: **2108981**
25-Aug-21

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: **R80650**	RunNo: **80650**
Prep Date:	Analysis Date: **8/19/2021**	SeqNo: **2846221** 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	8.3		10.00		83.2	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.0	70	130			
Surr: Dibromofluoromethane	8.2		10.00		82.4	70	130			
Surr: Toluene-d8	10		10.00		99.8	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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2108981** RcptNo: 1

Received By: **Scott Anderson** **8/18/2021 9:10:00 AM** SPA

Completed By: **Sean Livingston** **8/18/2021 1:58:20 PM** S Livingston

Reviewed By: JN 8/18/21

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. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☒ NA ☐ SPA 8/18/21
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: 3 (<2 or >12 unless noted)
Adjusted? YES
Checked by: SPA 8.18.21

Special Handling (if applicable)

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

Person Notified: Voicemail to Sofie Date: 8.18.21
By Whom: JC Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: Unable to report Anions.
Client Instructions:

16. Additional remarks: (1) Sample 004B (11 of 2) accidentally preserved with HNO_3. Added 0.5ml HNO_3 to said sample for pH<2. SPA 8.18.21

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good				

(2) All VOAs of 004A have bubbles greater than 1/4 inch.

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 380 West Oak Parkway, Suite 106, Marietta, Georgia 30062
Phone #: 770.973.2100
email or Fax#: Sweberssnapp@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 9
Project #: 02, 2012-003709 Monthly Discharge Water Sampling August 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, PE
On Ice: ☑ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.6-0.1=3.5 (°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. 2108981	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/NO3/NO2/PO4/SO4	8260 (VOA) Full List	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Dissolved Metals: Ca, Mg, K, Na * Field Filtered	O - Phosphorus Bromide	
08/17/2021	0620	H2O	Pre-Treatment	3x40mL VOAs	HCl	001	X												
08/17/2021	0625	H2O	Post Air Stripper	3x40mL VOAs	HCl	002	X												
08/17/2021	0630	H2O	Between GAC's	3x40mL VOAs	HCl	003	X												
08/17/21	0640	H2O	Post-Treatment	3x40mL VOAs	HCl	004							X	X					
				1x250mL HDPE	None								X				X	X	X
					H2SO4								X				X	X	X
					HNO3								X				X	X	X
			Trip Blank	2x40mL VOAs	HCl	005													
													Laboratory cannot report				Lab cannot report		
															SO 8-18-21				SO 8-18-21

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
08/17/2021	0900	[signature] PE	SPA	VPS	8-18-21	9:10

Remarks: Send Results ASAP To: Sweberssnapp@EarthCon.com
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: clients.hallenvironmental.com

September 27, 2021

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX

RE: TWP Roswell Station 9 OrderNo.: 2109842

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/16/2021 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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: TWP Roswell Station 9
Collection Date: 9/15/2021 2:35:00 PM
Lab ID: 2109842-001 **Matrix:** AQUEOUS **Received Date:** 9/16/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	2900	100		µg/L	100	9/22/2021 4:20:00 AM	SL81428
Toluene	2800	100		µg/L	100	9/22/2021 4:20:00 AM	SL81428
Ethylbenzene	180	10		µg/L	10	9/22/2021 4:43:00 AM	SL81428
Xylenes, Total	1700	15		µg/L	10	9/22/2021 4:43:00 AM	SL81428
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	10	9/22/2021 4:43:00 AM	SL81428
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	10	9/22/2021 4:43:00 AM	SL81428
Surr: Dibromofluoromethane	94.8	70-130		%Rec	10	9/22/2021 4:43:00 AM	SL81428
Surr: Toluene-d8	100	70-130		%Rec	10	9/22/2021 4:43:00 AM	SL81428

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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Air Stripper
Project: TWP Roswell Station 9
Collection Date: 9/15/2021 2:40:00 PM
Lab ID: 2109842-002 **Matrix:** AQUEOUS **Received Date:** 9/16/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	18	1.0		µg/L	1	9/22/2021 2:47:00 AM	SL81428
Toluene	17	1.0		µg/L	1	9/22/2021 2:47:00 AM	SL81428
Ethylbenzene	1.1	1.0		µg/L	1	9/22/2021 2:47:00 AM	SL81428
Xylenes, Total	12	1.5		µg/L	1	9/22/2021 2:47:00 AM	SL81428
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/22/2021 2:47:00 AM	SL81428
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/22/2021 2:47:00 AM	SL81428
Surr: Dibromofluoromethane	102	70-130		%Rec	1	9/22/2021 2:47:00 AM	SL81428
Surr: Toluene-d8	98.4	70-130		%Rec	1	9/22/2021 2:47:00 AM	SL81428

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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GACs
Project: TWP Roswell Station 9
Collection Date: 9/15/2021 2:50:00 PM
Lab ID: 2109842-003 **Matrix:** AQUEOUS **Received Date:** 9/16/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	5.6	1.0		µg/L	1	9/22/2021 3:10:00 AM	SL81428
Toluene	2.6	1.0		µg/L	1	9/22/2021 3:10:00 AM	SL81428
Ethylbenzene	ND	1.0		µg/L	1	9/22/2021 3:10:00 AM	SL81428
Xylenes, Total	1.6	1.5		µg/L	1	9/22/2021 3:10:00 AM	SL81428
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/22/2021 3:10:00 AM	SL81428
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/22/2021 3:10:00 AM	SL81428
Surr: Dibromofluoromethane	101	70-130		%Rec	1	9/22/2021 3:10:00 AM	SL81428
Surr: Toluene-d8	98.2	70-130		%Rec	1	9/22/2021 3:10:00 AM	SL81428

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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: TWP Roswell Station 9
Collection Date: 9/15/2021 3:00:00 PM
Lab ID: 2109842-004 **Matrix:** AQUEOUS **Received Date:** 9/16/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Fluoride	1.6	0.50		mg/L	5	9/16/2021 5:12:42 PM	R81353
Chloride	410	25	*	mg/L	50	9/21/2021 11:27:33 PM	A81455
Bromide	0.59	0.50		mg/L	5	9/16/2021 5:12:42 PM	R81353
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	9/16/2021 5:12:42 PM	R81353
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	9/16/2021 5:12:42 PM	R81353
Sulfate	1400	25	*	mg/L	50	9/21/2021 11:27:33 PM	A81455
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	480	5.0		mg/L	5	9/17/2021 11:37:54 AM	A81359
Magnesium	120	5.0		mg/L	5	9/17/2021 11:37:54 AM	A81359
Potassium	3.1	1.0		mg/L	1	9/17/2021 11:36:23 AM	A81359
Sodium	230	5.0		mg/L	5	9/17/2021 11:37:54 AM	A81359
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Toluene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Ethylbenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Naphthalene	ND	2.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Acetone	ND	10		µg/L	1	9/22/2021 3:33:00 AM	B81428
Bromobenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Bromoform	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Bromomethane	ND	3.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
2-Butanone	ND	10		µg/L	1	9/22/2021 3:33:00 AM	B81428
Carbon disulfide	ND	10		µg/L	1	9/22/2021 3:33:00 AM	B81428
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Chlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Chloroethane	ND	2.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Chloroform	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Chloromethane	ND	3.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428

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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: TWP Roswell Station 9
Collection Date: 9/15/2021 3:00:00 PM
Lab ID: 2109842-004 **Matrix:** AQUEOUS **Received Date:** 9/16/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Dibromomethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,1-Dichloropropene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
2-Hexanone	ND	10		µg/L	1	9/22/2021 3:33:00 AM	B81428
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2021 3:33:00 AM	B81428
Methylene Chloride	ND	3.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Styrene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Vinyl chloride	ND	1.0		µg/L	1	9/22/2021 3:33:00 AM	B81428
Xylenes, Total	ND	1.5		µg/L	1	9/22/2021 3:33:00 AM	B81428

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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: TWP Roswell Station 9
Collection Date: 9/15/2021 3:00:00 PM
Lab ID: 2109842-004 **Matrix:** AQUEOUS **Received Date:** 9/16/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/22/2021 3:33:00 AM	B81428
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/22/2021 3:33:00 AM	B81428
Surr: Dibromofluoromethane	99.2	70-130		%Rec	1	9/22/2021 3:33:00 AM	B81428
Surr: Toluene-d8	96.5	70-130		%Rec	1	9/22/2021 3:33:00 AM	B81428

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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9
Collection Date:
Lab ID: 2109842-005
Matrix: TRIP BLANK
Received Date: 9/16/2021 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Toluene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Ethylbenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Naphthalene	ND	2.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
2-Methylnaphthalene	ND	4.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Acetone	ND	10		µg/L	1	9/22/2021 3:57:00 AM	B81428
Bromobenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Bromodichloromethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Bromoform	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Bromomethane	ND	3.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
2-Butanone	ND	10		µg/L	1	9/22/2021 3:57:00 AM	B81428
Carbon disulfide	ND	10		µg/L	1	9/22/2021 3:57:00 AM	B81428
Carbon Tetrachloride	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Chlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Chloroethane	ND	2.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Chloroform	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Chloromethane	ND	3.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
2-Chlorotoluene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
4-Chlorotoluene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
cis-1,2-DCE	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Dibromochloromethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Dibromomethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,1-Dichloroethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,1-Dichloroethene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2-Dichloropropane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,3-Dichloropropane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
2,2-Dichloropropane	ND	2.0		µg/L	1	9/22/2021 3:57:00 AM	B81428

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 **2109842**
Date Reported: **9/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: TWP Roswell Station 9
Collection Date:
Lab ID: 2109842-005
Matrix: TRIP BLANK
Received Date: 9/16/2021 9:30:00 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	9/22/2021 3:57:00 AM	B81428
Hexachlorobutadiene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
2-Hexanone	ND	10		µg/L	1	9/22/2021 3:57:00 AM	B81428
Isopropylbenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
4-Isopropyltoluene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
4-Methyl-2-pentanone	ND	10		µg/L	1	9/22/2021 3:57:00 AM	B81428
Methylene Chloride	ND	3.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
n-Butylbenzene	ND	3.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
n-Propylbenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
sec-Butylbenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Styrene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
tert-Butylbenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
trans-1,2-DCE	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Trichlorofluoromethane	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Vinyl chloride	ND	1.0		µg/L	1	9/22/2021 3:57:00 AM	B81428
Xylenes, Total	ND	1.5		µg/L	1	9/22/2021 3:57:00 AM	B81428
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	9/22/2021 3:57:00 AM	B81428
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/22/2021 3:57:00 AM	B81428
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/22/2021 3:57:00 AM	B81428
Surr: Toluene-d8	95.9	70-130		%Rec	1	9/22/2021 3:57:00 AM	B81428

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#: **2109842**
27-Sep-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A81359**	RunNo: **81359**
Prep Date:	Analysis Date: **9/17/2021**	SeqNo: **2873402** 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**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **A81359**	RunNo: **81359**
Prep Date:	Analysis Date: **9/17/2021**	SeqNo: **2873403** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	99.9	50	150			
Magnesium	ND	1.0	0.5000	0	101	50	150			
Potassium	ND	1.0	0.5000	0	86.5	50	150			
Sodium	ND	1.0	0.5000	0	100	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A81359**	RunNo: **81359**
Prep Date:	Analysis Date: **9/17/2021**	SeqNo: **2873404** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	101	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	51	1.0	50.00	0	101	85	115			
Sodium	51	1.0	50.00	0	103	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#: **2109842**
27-Sep-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R81353**	RunNo: **81353**
Prep Date:	Analysis Date: **9/16/2021**	SeqNo: **2873075** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	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: **R81353**	RunNo: **81353**
Prep Date:	Analysis Date: **9/16/2021**	SeqNo: **2873076** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.1	90	110			
Bromide	2.5	0.10	2.500	0	98.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	90.4	90	110			

Sample ID: **2109842-004BMS**	SampType: **ms**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Post-Treatment**	Batch ID: **R81353**	RunNo: **81353**
Prep Date:	Analysis Date: **9/16/2021**	SeqNo: **2873114** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.9	0.50	2.500	1.593	92.4	73.3	111			
Bromide	13	0.50	12.50	0.5886	99.0	85.9	106			
Nitrogen, Nitrate (As N)	13	0.50	12.50	0.08301	101	86.8	110			
Phosphorus, Orthophosphate (As P	24	2.5	25.00	0	96.7	70.5	118			

Sample ID: **2109842-004BMSD**	SampType: **msd**	TestCode: **EPA Method 300.0: Anions**
Client ID: **Post-Treatment**	Batch ID: **R81353**	RunNo: **81353**
Prep Date:	Analysis Date: **9/16/2021**	SeqNo: **2873115** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.9	0.50	2.500	1.593	92.9	73.3	111	0.261	20	
Bromide	13	0.50	12.50	0.5886	99.0	85.9	106	0.0124	20	
Nitrogen, Nitrate (As N)	13	0.50	12.50	0.08301	101	86.8	110	0.302	20	
Phosphorus, Orthophosphate (As P	25	2.5	25.00	0	98.8	70.5	118	2.18	20	

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A81455**	RunNo: **81455**
Prep Date:	Analysis Date: **9/21/2021**	SeqNo: **2877722** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: **2109842**
27-Sep-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A81455**	RunNo: **81455**
Prep Date:	Analysis Date: **9/21/2021**	SeqNo: **2877722** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A81455**	RunNo: **81455**
Prep Date:	Analysis Date: **9/21/2021**	SeqNo: **2877723** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.6	90	110			
Sulfate	9.7	0.50	10.00	0	97.2	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#: **2109842**
27-Sep-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **SL81428**	RunNo: **81428**
Prep Date:	Analysis Date: **9/21/2021**	SeqNo: **2878276** 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		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
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#: **2109842**
27-Sep-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B81428**	RunNo: **81428**
Prep Date:	Analysis Date: **9/21/2021**	SeqNo: **2878253** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
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#: **2109842**
27-Sep-21

Client: Earth Con
Project: TWP Roswell Station 9

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B81428**	RunNo: **81428**
Prep Date:	Analysis Date: **9/21/2021**	SeqNo: **2878253** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.7		10.00		97.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2109842** RcptNo: **1**

Received By: **Juan Rojas** **9/16/2021 9:30:00 AM** Juan Rojas

Completed By: **Sean Livingston** **9/16/2021 11:51:38 AM** Sean Livingston

Reviewed By: DAD 9/16/21

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 ☑ TMC 9.16.21 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 (<2 or >12 unless noted)
Adjusted? Yes
Checked by: TMC

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 .40ml of HNO_3 to sample 004C for pH. - TMC 9.16.21

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway, Ste 106 Marietta, Ga 30062
Phone #: 770.973.2100
email or Fax#: SWeberSnappa 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 #: 02.2012.003710 Monthly Discharge Water Sampling September 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, Pa
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 2.1-0.2.1 (°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. 2109142	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	O - Phosphorus	Bromide
09/15/21	1435	H_2O	Pre-Treatment	3x 40mL VOAs	HCl	001	X														
09/15/21	1440	H_2O	Post-Air Stripper			002	X														
09/15/21	1450	H_2O	Between GAC's			003	X														
09/15/21	1500	H_2O	Post-Treatment			004								X							
09/15/21	1500	H_2O	Post-Treatment	1x 500mL HDPE	H_2SO_4								X				X	X	X	X	X
09/15/21	1500	H_2O	Post Treatment	1x 125mL HDPE	None								X				X	X	X	X	X
09/15/21	1500	H_2O	✱ Field Filtered	1x 125mL HDPE	HNO_3								X				X	X	X	X	X
			Trip Blank	3x 40mL VOAs	HCl	005															

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
09/15/21	1620			UPS	9/16/21	9:30
Date	Time	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Send Results ASAP To SWeberSnappa earthcon.com. 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: clients.hallenvironmental.com

October 28, 2021

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: Earth Consultants Inc TWP Roswell Station 9 OrderNo.: 2110751

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/15/2021 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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date: 10/14/2021 7:00:00 AM
Lab ID: 2110751-001 **Matrix:** AQUEOUS **Received Date:** 10/15/2021 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	3200	100		µg/L	100	10/21/2021 2:35:00 AM	S82204
Toluene	3600	100		µg/L	100	10/21/2021 2:35:00 AM	S82204
Ethylbenzene	150	10		µg/L	10	10/21/2021 2:58:00 AM	S82204
Xylenes, Total	1900	15		µg/L	10	10/21/2021 2:58:00 AM	S82204
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	10	10/21/2021 2:58:00 AM	S82204
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	10	10/21/2021 2:58:00 AM	S82204
Surr: Dibromofluoromethane	94.1	70-130		%Rec	10	10/21/2021 2:58:00 AM	S82204
Surr: Toluene-d8	99.5	70-130		%Rec	10	10/21/2021 2:58:00 AM	S82204

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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Air Stripper
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date: 10/14/2021 7:10:00 AM
Lab ID: 2110751-002 **Matrix:** AQUEOUS **Received Date:** 10/15/2021 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	46	1.0		µg/L	1	10/21/2021 3:44:00 AM	S82204
Toluene	52	1.0		µg/L	1	10/21/2021 3:44:00 AM	S82204
Ethylbenzene	2.0	1.0		µg/L	1	10/21/2021 3:44:00 AM	S82204
Xylenes, Total	33	1.5		µg/L	1	10/21/2021 3:44:00 AM	S82204
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	10/21/2021 3:44:00 AM	S82204
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	10/21/2021 3:44:00 AM	S82204
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	10/21/2021 3:44:00 AM	S82204
Surr: Toluene-d8	98.1	70-130		%Rec	1	10/21/2021 3:44:00 AM	S82204

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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GACs
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date: 10/14/2021 7:15:00 AM
Lab ID: 2110751-003 **Matrix:** AQUEOUS **Received Date:** 10/15/2021 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	23	1.0		µg/L	1	10/21/2021 4:08:00 AM	S82204
Toluene	16	1.0		µg/L	1	10/21/2021 4:08:00 AM	S82204
Ethylbenzene	ND	1.0		µg/L	1	10/21/2021 4:08:00 AM	S82204
Xylenes, Total	7.4	1.5		µg/L	1	10/21/2021 4:08:00 AM	S82204
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	10/21/2021 4:08:00 AM	S82204
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	10/21/2021 4:08:00 AM	S82204
Surr: Dibromofluoromethane	94.4	70-130		%Rec	1	10/21/2021 4:08:00 AM	S82204
Surr: Toluene-d8	95.7	70-130		%Rec	1	10/21/2021 4:08:00 AM	S82204

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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date: 10/14/2021 7:30:00 AM
Lab ID: 2110751-004 **Matrix:** AQUEOUS **Received Date:** 10/15/2021 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	1.6	0.10		mg/L	1	10/15/2021 4:24:51 PM	R82122
Chloride	400	25	*	mg/L	50	10/20/2021 12:38:27 AM	R82181
Bromide	0.48	0.10		mg/L	1	10/15/2021 4:24:51 PM	R82122
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	10/15/2021 4:24:51 PM	R82122
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	10/15/2021 4:24:51 PM	R82122
Sulfate	1500	25	*	mg/L	50	10/20/2021 12:38:27 AM	R82181
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	500	10		mg/L	10	10/18/2021 9:28:41 AM	A82144
Magnesium	130	5.0		mg/L	5	10/16/2021 2:27:57 PM	A82115
Potassium	4.7	1.0		mg/L	1	10/16/2021 2:25:35 PM	A82115
Sodium	230	10		mg/L	10	10/18/2021 9:28:41 AM	A82144
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Toluene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Ethylbenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Naphthalene	ND	2.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1-Methylnaphthalene	ND	4.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
2-Methylnaphthalene	ND	4.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Acetone	ND	10		µg/L	1	10/21/2021 4:31:00 AM	B82204
Bromobenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Bromodichloromethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Bromoform	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Bromomethane	ND	3.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
2-Butanone	ND	10		µg/L	1	10/21/2021 4:31:00 AM	B82204
Carbon disulfide	ND	10		µg/L	1	10/21/2021 4:31:00 AM	B82204
Carbon Tetrachloride	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Chlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Chloroethane	ND	2.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Chloroform	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Chloromethane	ND	3.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
2-Chlorotoluene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
4-Chlorotoluene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
cis-1,2-DCE	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204

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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date: 10/14/2021 7:30:00 AM
Lab ID: 2110751-004 **Matrix:** AQUEOUS **Received Date:** 10/15/2021 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Dibromochloromethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Dibromomethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,1-Dichloroethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,1-Dichloroethene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2-Dichloropropane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,3-Dichloropropane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
2,2-Dichloropropane	ND	2.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,1-Dichloropropene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Hexachlorobutadiene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
2-Hexanone	ND	10		µg/L	1	10/21/2021 4:31:00 AM	B82204
Isopropylbenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
4-Isopropyltoluene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
4-Methyl-2-pentanone	ND	10		µg/L	1	10/21/2021 4:31:00 AM	B82204
Methylene Chloride	ND	3.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
n-Butylbenzene	ND	3.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
n-Propylbenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
sec-Butylbenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Styrene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
tert-Butylbenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
trans-1,2-DCE	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Trichlorofluoromethane	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Vinyl chloride	ND	1.0		µg/L	1	10/21/2021 4:31:00 AM	B82204
Xylenes, Total	ND	1.5		µg/L	1	10/21/2021 4:31:00 AM	B82204

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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post-Treatment
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date: 10/14/2021 7:30:00 AM
Lab ID: 2110751-004 **Matrix:** AQUEOUS **Received Date:** 10/15/2021 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	1	10/21/2021 4:31:00 AM	B82204
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	10/21/2021 4:31:00 AM	B82204
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	10/21/2021 4:31:00 AM	B82204
Surr: Toluene-d8	93.7	70-130		%Rec	1	10/21/2021 4:31:00 AM	B82204

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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date:
Lab ID: 2110751-005
Matrix: TRIP BLANK
Received Date: 10/15/2021 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Toluene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Ethylbenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Naphthalene	ND	2.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1-Methylnaphthalene	ND	4.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
2-Methylnaphthalene	ND	4.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Acetone	ND	10		µg/L	1	10/21/2021 4:54:00 AM	B82204
Bromobenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Bromodichloromethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Bromoform	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Bromomethane	ND	3.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
2-Butanone	ND	10		µg/L	1	10/21/2021 4:54:00 AM	B82204
Carbon disulfide	ND	10		µg/L	1	10/21/2021 4:54:00 AM	B82204
Carbon Tetrachloride	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Chlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Chloroethane	ND	2.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Chloroform	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Chloromethane	ND	3.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
2-Chlorotoluene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
4-Chlorotoluene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
cis-1,2-DCE	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Dibromochloromethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Dibromomethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,1-Dichloroethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,1-Dichloroethene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2-Dichloropropane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,3-Dichloropropane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
2,2-Dichloropropane	ND	2.0		µg/L	1	10/21/2021 4:54:00 AM	B82204

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 **2110751**
Date Reported: **10/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Trip Blank
Project: Earth Consultants Inc TWP Roswell Stati
Collection Date:
Lab ID: 2110751-005 **Matrix:** TRIP BLANK **Received Date:** 10/15/2021 11:00:00 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	10/21/2021 4:54:00 AM	B82204
Hexachlorobutadiene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
2-Hexanone	ND	10		µg/L	1	10/21/2021 4:54:00 AM	B82204
Isopropylbenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
4-Isopropyltoluene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
4-Methyl-2-pentanone	ND	10		µg/L	1	10/21/2021 4:54:00 AM	B82204
Methylene Chloride	ND	3.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
n-Butylbenzene	ND	3.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
n-Propylbenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
sec-Butylbenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Styrene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
tert-Butylbenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
trans-1,2-DCE	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Trichlorofluoromethane	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Vinyl chloride	ND	1.0		µg/L	1	10/21/2021 4:54:00 AM	B82204
Xylenes, Total	ND	1.5		µg/L	1	10/21/2021 4:54:00 AM	B82204
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	10/21/2021 4:54:00 AM	B82204
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/21/2021 4:54:00 AM	B82204
Surr: Dibromofluoromethane	99.1	70-130		%Rec	1	10/21/2021 4:54:00 AM	B82204
Surr: Toluene-d8	93.8	70-130		%Rec	1	10/21/2021 4:54:00 AM	B82204

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#: **2110751**
28-Oct-21

Client: Earth Con
Project: Earth Consultants Inc TWP Roswell Station 9

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A82115** RunNo: **82115**
Prep Date: Analysis Date: **10/16/2021** SeqNo: **2908771** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	ND	1.0								
Potassium	ND	1.0								

Sample ID: **LLLCS** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A82115** RunNo: **82115**
Prep Date: Analysis Date: **10/16/2021** SeqNo: **2908773** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	ND	1.0	0.5000	0	97.6	50	150			
Potassium	ND	1.0	0.5000	0	109	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A82115** RunNo: **82115**
Prep Date: Analysis Date: **10/16/2021** SeqNo: **2908775** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	50	1.0	50.00	0	99.7	85	115			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW** Batch ID: **A82144** RunNo: **82144**
Prep Date: Analysis Date: **10/18/2021** SeqNo: **2910254** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Sodium	ND	1.0								

Sample ID: **LLLCS** SampType: **LCSLL** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC** Batch ID: **A82144** RunNo: **82144**
Prep Date: Analysis Date: **10/18/2021** SeqNo: **2910256** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	106	50	150			
Sodium	ND	1.0	0.5000	0	103	50	150			

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A82144** RunNo: **82144**
Prep Date: Analysis Date: **10/18/2021** SeqNo: **2910258** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: **2110751**
28-Oct-21

Client: Earth Con
Project: Earth Consultants Inc TWP Roswell Station 9

Sample ID: **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW** Batch ID: **A82144** RunNo: **82144**
Prep Date: Analysis Date: **10/18/2021** SeqNo: **2910258** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	99.6	85	115			
Sodium	49	1.0	50.00	0	97.1	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#: **2110751**
28-Oct-21

Client: Earth Con
Project: Earth Consultants Inc TWP Roswell Station 9

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R82122** RunNo: **82122**
Prep Date: Analysis Date: **10/15/2021** SeqNo: **2909242** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	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: **R82122** RunNo: **82122**
Prep Date: Analysis Date: **10/15/2021** SeqNo: **2909243** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.5	90	110			
Bromide	2.5	0.10	2.500	0	101	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	4.6	0.50	5.000	0	92.4	90	110			

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R82181** RunNo: **82181**
Prep Date: Analysis Date: **10/19/2021** SeqNo: **2912085** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R82181** RunNo: **82181**
Prep Date: Analysis Date: **10/19/2021** SeqNo: **2912086** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.4	90	110			
Sulfate	10	0.50	10.00	0	100	90	110			

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#: **2110751**
28-Oct-21

Client: Earth Con
Project: Earth Consultants Inc TWP Roswell Station 9

Sample ID: **100ng 8260 lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **S82204** RunNo: **82204**
Prep Date: Analysis Date: **10/20/2021** SeqNo: **2914277** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	20	1.0	20.00	0	99.7	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.2	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.6	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **S82204** RunNo: **82204**
Prep Date: Analysis Date: **10/20/2021** SeqNo: **2914278** 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	9.7		10.00		96.9	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.5	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	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#: **2110751**
28-Oct-21

Client: Earth Con
Project: Earth Consultants Inc TWP Roswell Station 9

Sample ID: **100ng 8260 lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **B82204**	RunNo: **82204**
Prep Date:	Analysis Date: **10/20/2021**	SeqNo: **2915228** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	20	1.0	20.00	0	99.7	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.4	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	95.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.2	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.6	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: **mb 2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B82204**	RunNo: **82204**
Prep Date:	Analysis Date: **10/20/2021**	SeqNo: **2915229** 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#: **2110751**
28-Oct-21

Client: Earth Con
Project: Earth Consultants Inc TWP Roswell Station 9

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B82204** RunNo: **82204**
Prep Date: Analysis Date: **10/20/2021** SeqNo: **2915229** 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#: **2110751**
28-Oct-21

Client: Earth Con
Project: Earth Consultants Inc TWP Roswell Station 9

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **B82204** RunNo: **82204**
Prep Date: Analysis Date: **10/20/2021** SeqNo: **2915229** 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	9.7		10.00		96.9	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.5	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	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
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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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Earth Con** Work Order Number: **2110751** RcptNo: 1

Received By: **Juan Rojas** **10/15/2021 11:00:00 AM**

Completed By: **Desiree Dominguez** **10/15/2021 11:30:35 AM**

Reviewed By: 10/15/21

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. 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 (<2 or >12 unless noted)

Adjusted? JA 10.15.21

Checked by:

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	5.5	Good				

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: EarthCon Consultants, Inc.
ATTN: Sofie Weber-Snapp
Mailing Address: 1880 West Oak Parkway, Suite 106 Marietta, Ga 30062
Phone #: 770.973.2100
email or Fax#: sweberSnapp@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 Bisnell Station 9
Project #: 02.2012.003710 Monthly Discharge Water Sampling October 2021
Project Manager: Sofie Weber-Snapp
Sampler: CM Barnhill, BF
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 5.6+0.1=5.5 (°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. 2110751	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 *	O-phosphorus	Bromide
10/14/21	0700	H_2O	Pre-Treatment	3x40mL VOA's	HCl	-001	X														
10/14/21	7:10	H_2O	Post Air Stripper	3x40mL VOA's	HCl	-002	X														
10/14/21	7:15	H_2O	Between GAC's	3x40mL VOA's	HCl	-003	X														
10/14/21	0730	H_2O	Post Treatment	3x40mL VOA's	HCl	-004								X							
10/14/21	0730	H_2O	Post Treatment	1x500mL HDPE	H_2SO_4								X				X	X	X	X	X
10/14/21	0730	H_2O	Post Treatment	1x500mL HDPE	None								X				X	X	X	X	X
10/14/21	0730	H_2O	Post Treatment	1x250mL HDPE	HNO_3								X				X	X	X	X	X
			* Field Filtered *																		
			Trip Blank	2x40mL VOA's	HCl	-005															

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/14/21	14:45			UPS	10/15/21	11:00
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Send Results Asap To: Sweberspapp@earthcon.com. 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: clients.hallenvironmental.com

January 10, 2022

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: EarthCon Consultants Inc TWP Roswell Station 9 OrderNo.: 2201004

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/3/2021 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 **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:20:00 AM
Lab ID: 2201004-001 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	3200	100		µg/L	100	1/3/2022 1:17:44 PM	B84907
Toluene	3300	100		µg/L	100	1/3/2022 1:17:44 PM	B84907
Ethylbenzene	160	10		µg/L	10	1/3/2022 1:41:17 PM	B84907
Xylenes, Total	1800	20		µg/L	10	1/3/2022 1:41:17 PM	B84907
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10	1/3/2022 1:41:17 PM	B84907

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Air Stripper
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:30:00 AM
Lab ID: 2201004-002 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	770	20	P	µg/L	20	1/4/2022 9:16:37 AM	B84907
Toluene	790	20	P	µg/L	20	1/4/2022 9:16:37 AM	B84907
Ethylbenzene	25	1.0	P	µg/L	1	1/3/2022 2:28:45 PM	B84907
Xylenes, Total	410	40	P	µg/L	20	1/4/2022 9:16:37 AM	B84907
Surr: 4-Bromofluorobenzene	117	70-130	P	%Rec	1	1/3/2022 2:28:45 PM	B84907

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GAC's
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:35:00 AM
Lab ID: 2201004-003 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	280	10		µg/L	10	1/4/2022 9:40:26 AM	B84907
Toluene	140	10		µg/L	10	1/4/2022 9:40:26 AM	B84907
Ethylbenzene	3.7	1.0		µg/L	1	1/3/2022 2:52:14 PM	B84907
Xylenes, Total	36	2.0		µg/L	1	1/3/2022 2:52:14 PM	B84907
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/3/2022 2:52:14 PM	B84907

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:50:00 AM
Lab ID: 2201004-004 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Fluoride	1.2	0.50		mg/L	5	1/3/2022 5:33:32 PM	R84917
Chloride	380	25	*	mg/L	50	1/6/2022 10:30:41 AM	R85016
Bromide	0.56	0.50		mg/L	5	1/3/2022 5:33:32 PM	R84917
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	1/3/2022 5:33:32 PM	R84917
Sulfate	1400	25	*	mg/L	50	1/6/2022 10:30:41 AM	R85016
Nitrate+Nitrite as N	ND	1.0		mg/L	5	1/3/2022 8:07:59 PM	R84917
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	500	10		mg/L	10	1/4/2022 1:10:35 PM	B84934
Magnesium	130	5.0		mg/L	5	1/4/2022 12:18:17 PM	B84934
Potassium	3.3	1.0		mg/L	1	1/4/2022 12:16:35 PM	B84934
Sodium	230	5.0		mg/L	5	1/4/2022 12:18:17 PM	B84934
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Toluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Ethylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Naphthalene	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Acetone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromodichloromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromoform	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromomethane	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Butanone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Carbon disulfide	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Carbon Tetrachloride	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chloroethane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chloroform	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chloromethane	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Chlorotoluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
4-Chlorotoluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
cis-1,2-DCE	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:50:00 AM
Lab ID: 2201004-004 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Dibromochloromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Dibromomethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1-Dichloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1-Dichloroethene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dichloropropane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,3-Dichloropropane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2,2-Dichloropropane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1-Dichloropropene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Hexachlorobutadiene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Hexanone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Isopropylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
4-Isopropyltoluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
4-Methyl-2-pentanone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Methylene Chloride	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
n-Butylbenzene	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
n-Propylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
sec-Butylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Styrene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
tert-Butylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
trans-1,2-DCE	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Trichlorofluoromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Vinyl chloride	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Xylenes, Total	ND	1.5		µg/L	1	1/6/2022 7:54:42 AM	R84983

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:50:00 AM
Lab ID: 2201004-004 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983
Surr: Toluene-d8	98.5	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Field Blank
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 12:23:00 PM
Lab ID: 2201004-005 **Matrix:** TRIP BLANK **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Toluene	ND	1.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Ethylbenzene	ND	1.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Xylenes, Total	ND	2.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/3/2022 3:15:47 PM	B84907

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	Estimated value
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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B84934**	RunNo: **84934**
Prep Date:	Analysis Date: **1/4/2022**	SeqNo: **2987969** 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**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B84934**	RunNo: **84934**
Prep Date:	Analysis Date: **1/4/2022**	SeqNo: **2987970** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	96.7	50	150			
Magnesium	ND	1.0	0.5000	0	99.1	50	150			
Potassium	ND	1.0	0.5000	0	73.6	50	150			
Sodium	ND	1.0	0.5000	0	107	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B84934**	RunNo: **84934**
Prep Date:	Analysis Date: **1/4/2022**	SeqNo: **2987971** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	97.7	85	115			
Magnesium	49	1.0	50.00	0	98.2	85	115			
Potassium	49	1.0	50.00	0	98.2	85	115			
Sodium	50	1.0	50.00	0	99.1	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R84917** RunNo: **84917**
Prep Date: Analysis Date: **1/3/2022** SeqNo: **2987352** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R84917** RunNo: **84917**
Prep Date: Analysis Date: **1/3/2022** SeqNo: **2987353** 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	96.4	90	110			
Bromide	2.5	0.10	2.500	0	99.1	90	110			
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	90.6	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	101	90	110			

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R85016** RunNo: **85016**
Prep Date: Analysis Date: **1/6/2022** SeqNo: **2991164** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R85016** RunNo: **85016**
Prep Date: Analysis Date: **1/6/2022** SeqNo: **2991165** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.7	90	110			
Sulfate	9.4	0.50	10.00	0	93.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B84907**	RunNo: **84907**
Prep Date:	Analysis Date: **1/3/2022**	SeqNo: **2986893** 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	21		20.00		107	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B84907**	RunNo: **84907**
Prep Date:	Analysis Date: **1/3/2022**	SeqNo: **2986894** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	100	80	120			
Xylenes, Total	60	2.0	60.00	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		109	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R84983** RunNo: **84983**
Prep Date: Analysis Date: **1/5/2022** SeqNo: **2989999** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.6	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	97.1	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R84983** RunNo: **84983**
Prep Date: Analysis Date: **1/5/2022** SeqNo: **2990032** 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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R84983**	RunNo: **84983**	
Prep Date:	Analysis Date: **1/5/2022**	SeqNo: **2990032**	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	Estimated value
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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R84983**	RunNo: **84983**
Prep Date:	Analysis Date: **1/5/2022**	SeqNo: **2990032** 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	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		99.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Earth Con | Work Order Number: 2201004 | RcptNo: 1

Received By: Tracy Casarrubias 1/3/2021 9:21:00 AM

Completed By: Tracy Casarrubias 1/3/2022 9:28:41 AM

Reviewed By: JR 1/3/22

Chain of Custody

JR 1/3/22

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. 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 (<2 or >12 unless noted)

Adjusted? NO

Checked by: KRG 1/03/22

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	0.6	Good	Not Present			

Released to Imaging: 11/22/2022 8:38:59 AM
Received by OCD: 10/21/2022 7:35:13 AM

Chain-of-Custody Record

Client: Earthcon Consultants, Inc.
ATTN: Sofie Weber Snapp
Mailing Address: 1880 West Oak Parkway Suite 100 Marietta, GA 30062
Phone #: 770.973.2100
email or Fax#: Sweberssnapp@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 #: 02.2012.003701 Monthly Discharge H2O Sampling December 2021
Project Manager: Sofie Weber-Snapp
Sampler: Cm Earnhill, PE
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 0.6 -0-0.6 (°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. 2201004	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	O-Phosphorus Bromide	
12/30/21	0920	H_2O	Pre-Treatment	3x40 mL VOA's	HCl	001	X													
12/30/21	0930	H_2O	Post Air Stripper	3x40mL VOAs	HCl	002	X													
12/30/21	0935	H_2O	Between GAC's	3x40 mL VOAs	HCl	003	X													
12/30/21	0950	H_2O	Post Treatment	Nos 3x125 mL HDPE	Nos H_2SO_4/HNO3	004							X				X	X	X	X	X
			" " "	3x40 mL VOAs	HCl									X						
12/30/21	1223	H_2O	Field Blank	3x40 mL VOAs	HCl	005														

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/30/21	1238			UPS	1/3/22	9:21
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Send Results ASAP To: Sweberssnapp@earthcon.com
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: clients.hallenvironmental.com

January 10, 2022

Sofie Weber-Snapp

Earth Con
14405 Walters Rd Ste 700
Houston, TX
TEL: (317) 450-6126
FAX:

RE: EarthCon Consultants Inc TWP Roswell Station 9 OrderNo.: 2201004

Dear Sofie Weber-Snapp:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/3/2021 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 **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Pre-Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:20:00 AM
Lab ID: 2201004-001 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	3200	100		µg/L	100	1/3/2022 1:17:44 PM	B84907
Toluene	3300	100		µg/L	100	1/3/2022 1:17:44 PM	B84907
Ethylbenzene	160	10		µg/L	10	1/3/2022 1:41:17 PM	B84907
Xylenes, Total	1800	20		µg/L	10	1/3/2022 1:41:17 PM	B84907
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	10	1/3/2022 1:41:17 PM	B84907

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Air Stripper
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:30:00 AM
Lab ID: 2201004-002 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	770	20	P	µg/L	20	1/4/2022 9:16:37 AM	B84907
Toluene	790	20	P	µg/L	20	1/4/2022 9:16:37 AM	B84907
Ethylbenzene	25	1.0	P	µg/L	1	1/3/2022 2:28:45 PM	B84907
Xylenes, Total	410	40	P	µg/L	20	1/4/2022 9:16:37 AM	B84907
Surr: 4-Bromofluorobenzene	117	70-130	P	%Rec	1	1/3/2022 2:28:45 PM	B84907

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Between GAC's
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:35:00 AM
Lab ID: 2201004-003 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	280	10		µg/L	10	1/4/2022 9:40:26 AM	B84907
Toluene	140	10		µg/L	10	1/4/2022 9:40:26 AM	B84907
Ethylbenzene	3.7	1.0		µg/L	1	1/3/2022 2:52:14 PM	B84907
Xylenes, Total	36	2.0		µg/L	1	1/3/2022 2:52:14 PM	B84907
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/3/2022 2:52:14 PM	B84907

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:50:00 AM
Lab ID: 2201004-004 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Fluoride	1.2	0.50		mg/L	5	1/3/2022 5:33:32 PM	R84917
Chloride	380	25	*	mg/L	50	1/6/2022 10:30:41 AM	R85016
Bromide	0.56	0.50		mg/L	5	1/3/2022 5:33:32 PM	R84917
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	1/3/2022 5:33:32 PM	R84917
Sulfate	1400	25	*	mg/L	50	1/6/2022 10:30:41 AM	R85016
Nitrate+Nitrite as N	ND	1.0		mg/L	5	1/3/2022 8:07:59 PM	R84917
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Calcium	500	10		mg/L	10	1/4/2022 1:10:35 PM	B84934
Magnesium	130	5.0		mg/L	5	1/4/2022 12:18:17 PM	B84934
Potassium	3.3	1.0		mg/L	1	1/4/2022 12:16:35 PM	B84934
Sodium	230	5.0		mg/L	5	1/4/2022 12:18:17 PM	B84934
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Toluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Ethylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Naphthalene	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Acetone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromodichloromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromoform	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Bromomethane	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Butanone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Carbon disulfide	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Carbon Tetrachloride	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chloroethane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chloroform	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Chloromethane	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Chlorotoluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
4-Chlorotoluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
cis-1,2-DCE	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983

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	Estimated value
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 interference

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:50:00 AM
Lab ID: 2201004-004 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Dibromochloromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Dibromomethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1-Dichloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1-Dichloroethene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2-Dichloropropane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,3-Dichloropropane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2,2-Dichloropropane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1-Dichloropropene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Hexachlorobutadiene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
2-Hexanone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Isopropylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
4-Isopropyltoluene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
4-Methyl-2-pentanone	ND	10		µg/L	1	1/6/2022 7:54:42 AM	R84983
Methylene Chloride	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
n-Butylbenzene	ND	3.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
n-Propylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
sec-Butylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Styrene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
tert-Butylbenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
trans-1,2-DCE	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Trichlorofluoromethane	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Vinyl chloride	ND	1.0		µg/L	1	1/6/2022 7:54:42 AM	R84983
Xylenes, Total	ND	1.5		µg/L	1	1/6/2022 7:54:42 AM	R84983

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Post Treatment
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 9:50:00 AM
Lab ID: 2201004-004 **Matrix:** AQUEOUS **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983
Surr: Toluene-d8	98.5	70-130		%Rec	1	1/6/2022 7:54:42 AM	R84983

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	Estimated value
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 interference		

Analytical Report
Lab Order **2201004**
Date Reported: **1/10/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Earth Con
Client Sample ID: Field Blank
Project: EarthCon Consultants Inc TWP Roswell
Collection Date: 12/30/2021 12:23:00 PM
Lab ID: 2201004-005 **Matrix:** TRIP BLANK **Received Date:** 1/3/2022 9:21:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Toluene	ND	1.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Ethylbenzene	ND	1.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Xylenes, Total	ND	2.0		µg/L	1	1/3/2022 3:15:47 PM	B84907
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/3/2022 3:15:47 PM	B84907

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	Estimated value
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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **B84934**	RunNo: **84934**
Prep Date:	Analysis Date: **1/4/2022**	SeqNo: **2987969** 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**	SampType: **LCSLL**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **BatchQC**	Batch ID: **B84934**	RunNo: **84934**
Prep Date:	Analysis Date: **1/4/2022**	SeqNo: **2987970** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	0.5000	0	96.7	50	150			
Magnesium	ND	1.0	0.5000	0	99.1	50	150			
Potassium	ND	1.0	0.5000	0	73.6	50	150			
Sodium	ND	1.0	0.5000	0	107	50	150			

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **B84934**	RunNo: **84934**
Prep Date:	Analysis Date: **1/4/2022**	SeqNo: **2987971** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	97.7	85	115			
Magnesium	49	1.0	50.00	0	98.2	85	115			
Potassium	49	1.0	50.00	0	98.2	85	115			
Sodium	50	1.0	50.00	0	99.1	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R84917** RunNo: **84917**
Prep Date: Analysis Date: **1/3/2022** SeqNo: **2987352** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R84917** RunNo: **84917**
Prep Date: Analysis Date: **1/3/2022** SeqNo: **2987353** 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	96.4	90	110			
Bromide	2.5	0.10	2.500	0	99.1	90	110			
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	90.6	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	101	90	110			

Sample ID: **MB** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW** Batch ID: **R85016** RunNo: **85016**
Prep Date: Analysis Date: **1/6/2022** SeqNo: **2991164** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: **LCS** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW** Batch ID: **R85016** RunNo: **85016**
Prep Date: Analysis Date: **1/6/2022** SeqNo: **2991165** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.7	90	110			
Sulfate	9.4	0.50	10.00	0	93.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**

10-Jan-22

Client: Earth Con

Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B84907**	RunNo: **84907**
Prep Date:	Analysis Date: **1/3/2022**	SeqNo: **2986893** 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	21		20.00		107	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B84907**	RunNo: **84907**
Prep Date:	Analysis Date: **1/3/2022**	SeqNo: **2986894** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	100	80	120			
Xylenes, Total	60	2.0	60.00	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		109	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW** Batch ID: **R84983** RunNo: **84983**
Prep Date: Analysis Date: **1/5/2022** SeqNo: **2989999** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.6	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	97.1	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW** Batch ID: **R84983** RunNo: **84983**
Prep Date: Analysis Date: **1/5/2022** SeqNo: **2990032** 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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R84983**	RunNo: **84983**	
Prep Date:	Analysis Date: **1/5/2022**	SeqNo: **2990032**	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201004**
10-Jan-22

Client: Earth Con
Project: EarthCon Consultants Inc TWP Roswell Station

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R84983**	RunNo: **84983**
Prep Date:	Analysis Date: **1/5/2022**	SeqNo: **2990032** 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	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		99.9	70	130			
Surr: Toluene-d8	10		10.00		99.9	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
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: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Earth Con | Work Order Number: 2201004 | RcptNo: 1

Received By: **Tracy Casarrubias** 1/3/2021 9:21:00 AM

Completed By: **Tracy Casarrubias** 1/3/2022 9:28:41 AM

Reviewed By: JR 1/3/22

Chain of Custody

JR 1/3/22

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. 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
(<2 or >12 unless noted)
Adjusted? NO
Checked by: KRG 1/03/22

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	0.6	Good	Not Present			

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Chain-of-Custody Record

Client: Earthcon Consultants, Inc.
ATTN: Sofie Weber Snapp
Mailing Address: 1880 West Oak Parkway Suite 100 Marietta, GA 30062
Phone #: 770.973.2100
email or Fax#: Sweberssnapp@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 #: 02.2012.003701 Monthly Discharge H2O Sampling December 2021
Project Manager: Sofie Weber-Snapp
Sampler: Cm Earnhill, PG
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 0.6 -0-0.6 (°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. 2201004	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	O-Phosphorus	Bromide
12/30/21	0920	H_2O	Pre-Treatment	3x40 mL VOA's	HCl	001	X													
12/30/21	0930	H_2O	Post Air Stripper	3x40mL VOAs	HCl	002	X													
12/30/21	0935	H_2O	Between GAC's	3x40 mL VOAs	HCl	003	X													
12/30/21	0950	H_2O	Post Treatment	Nos 3x125 mL HDPE	NoX H_2SO_4/HNO3	004							X				X	X	X	X	X
			" " "	3x40 mL VOAs	HCl									X							
12/30/21	1223	H_2O	Field Blank	3x40 mL VOA's	HCl	005														

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/30/21	1238			UPS	1/3/22	9:21
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks: Send Results ASAP To: Sweberssnapp@earthcon.com
Any Questions? Please call CMB @ 575.626.6615

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.

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°K

C ppbv = C ug/L * ((R * T)/(MW*P))

C ppbv = C ug/L * 0.3043

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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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Appendix E

Depth to Water and Product Thickness Graphs

Appendix E

Depth to Water and Product Thickness Graphs

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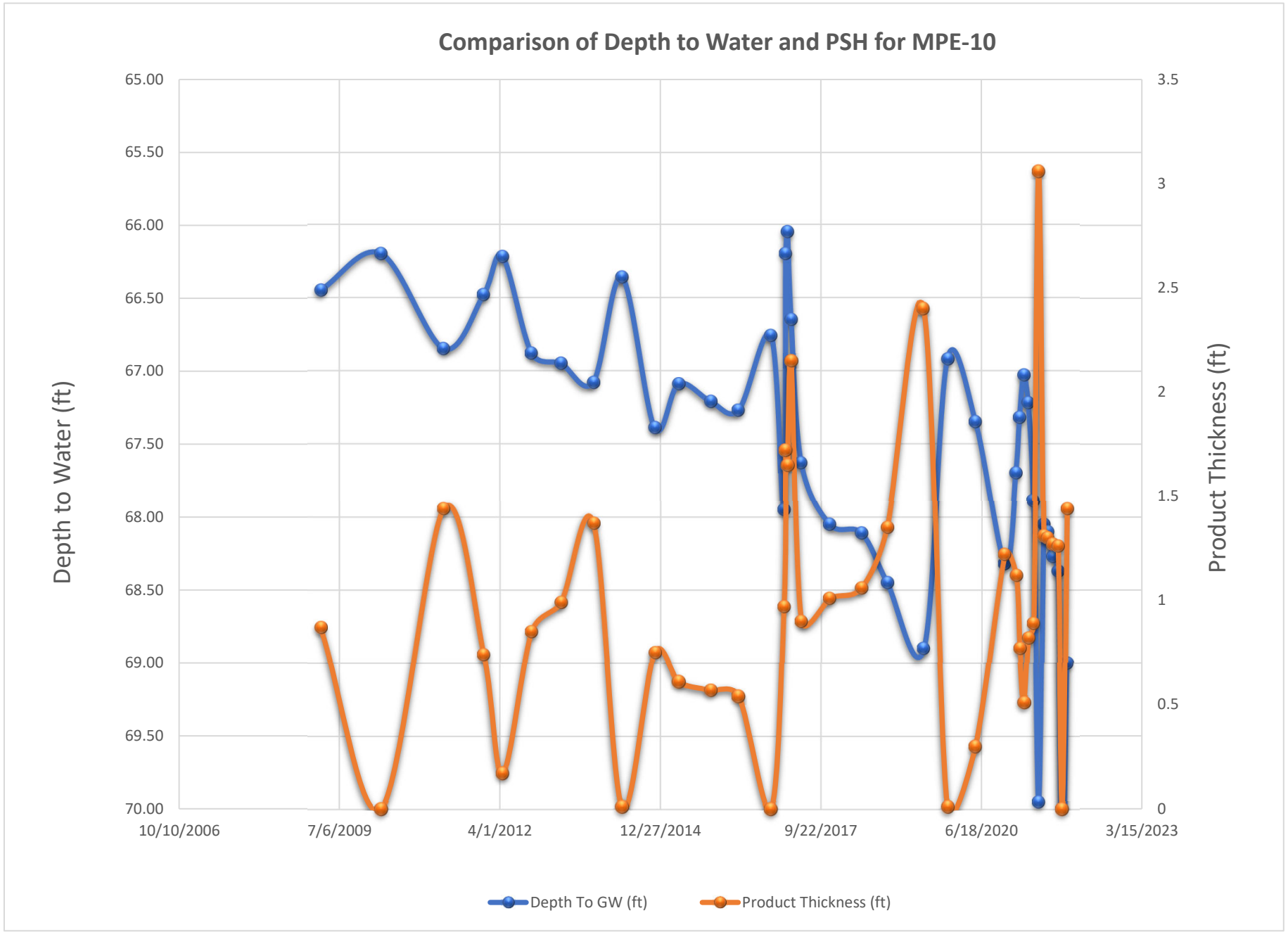

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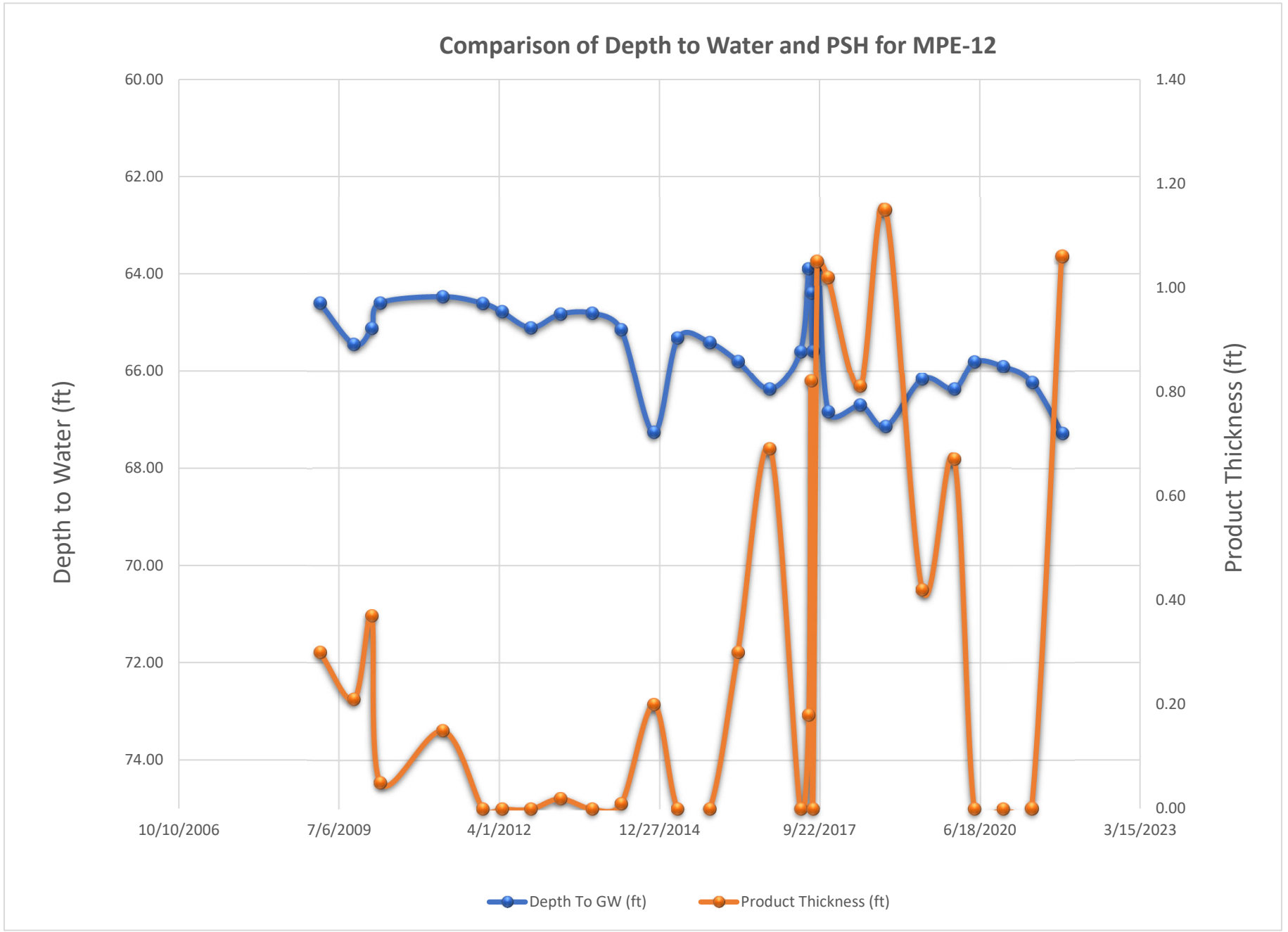

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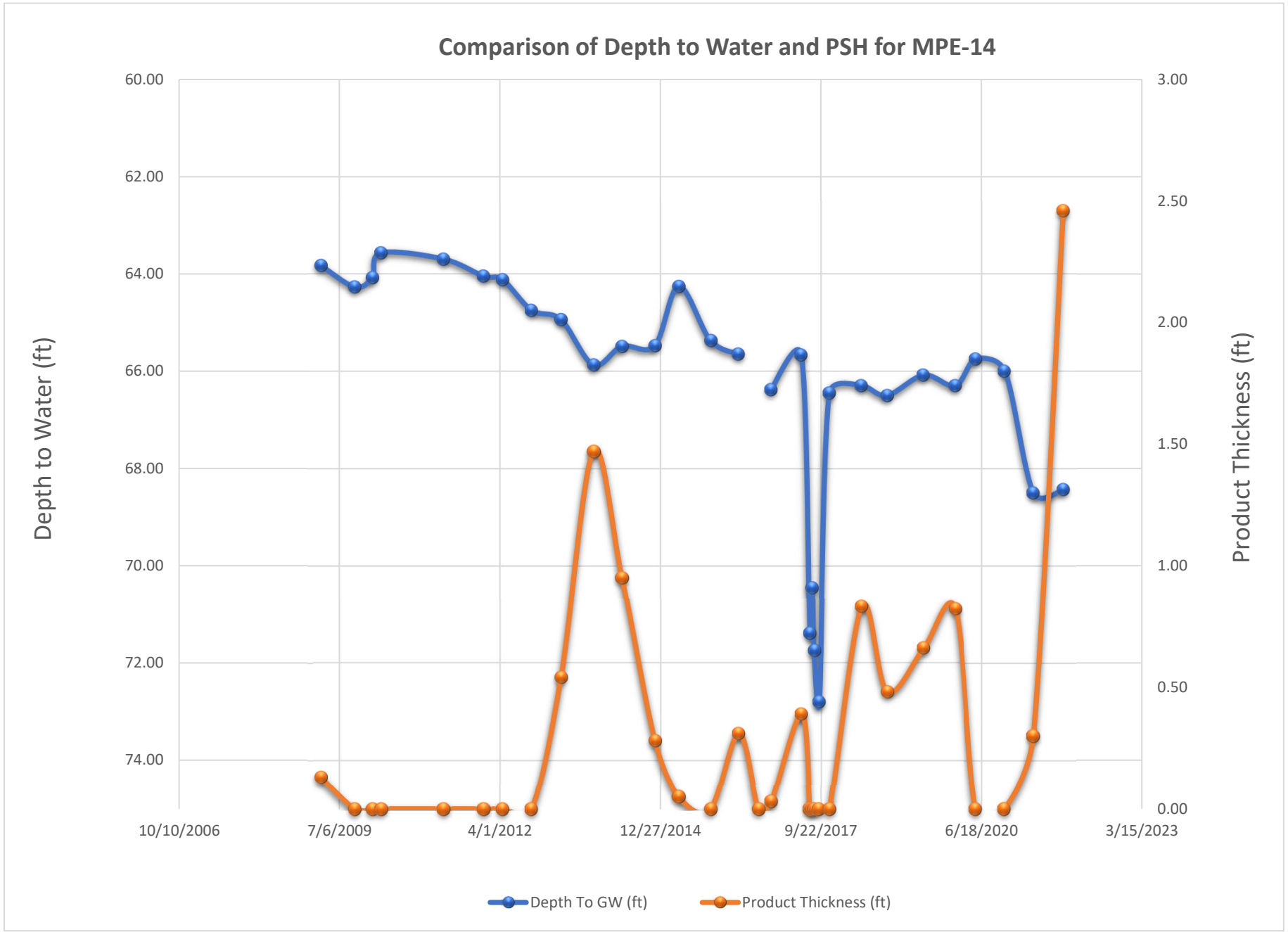

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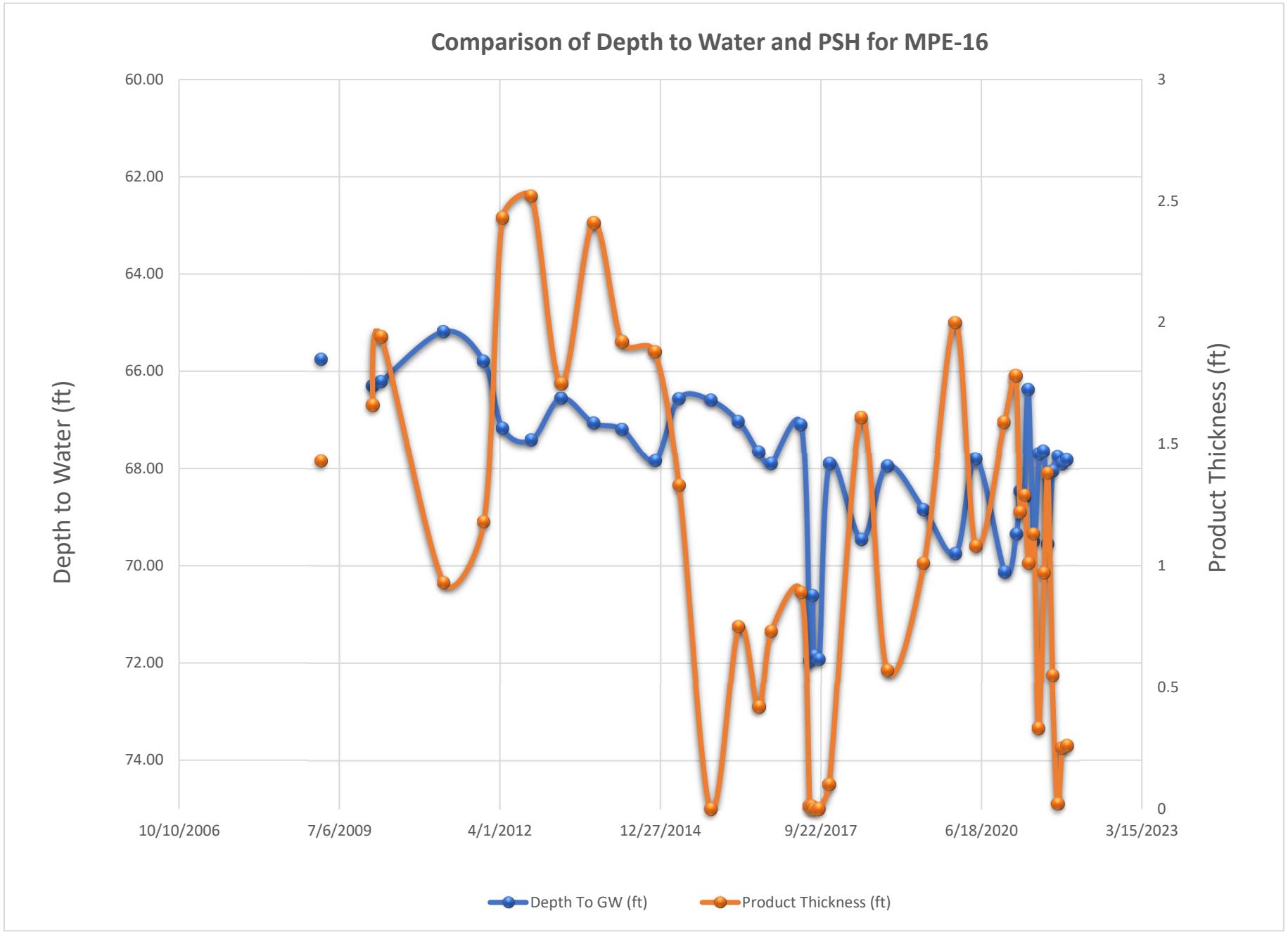

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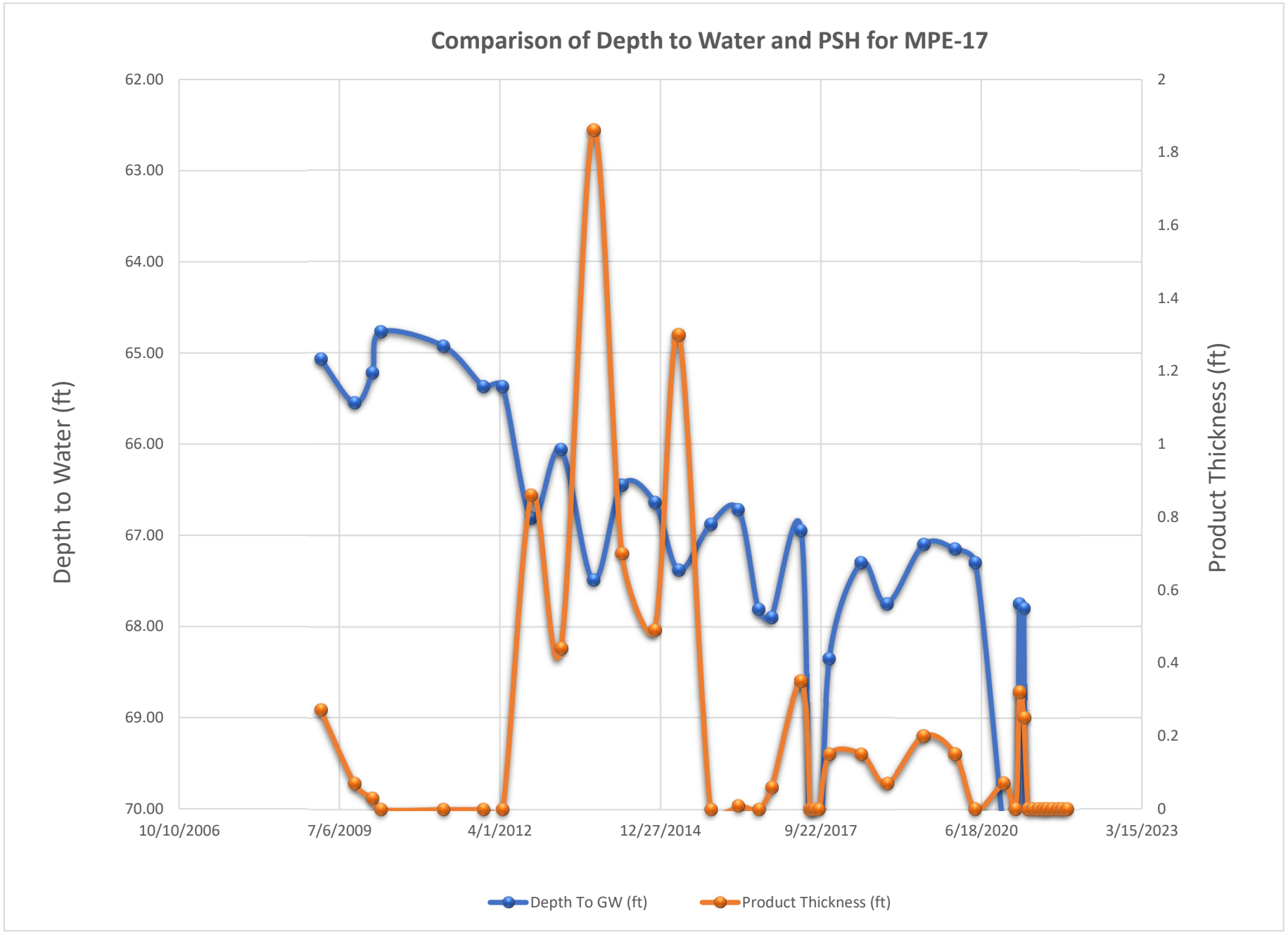

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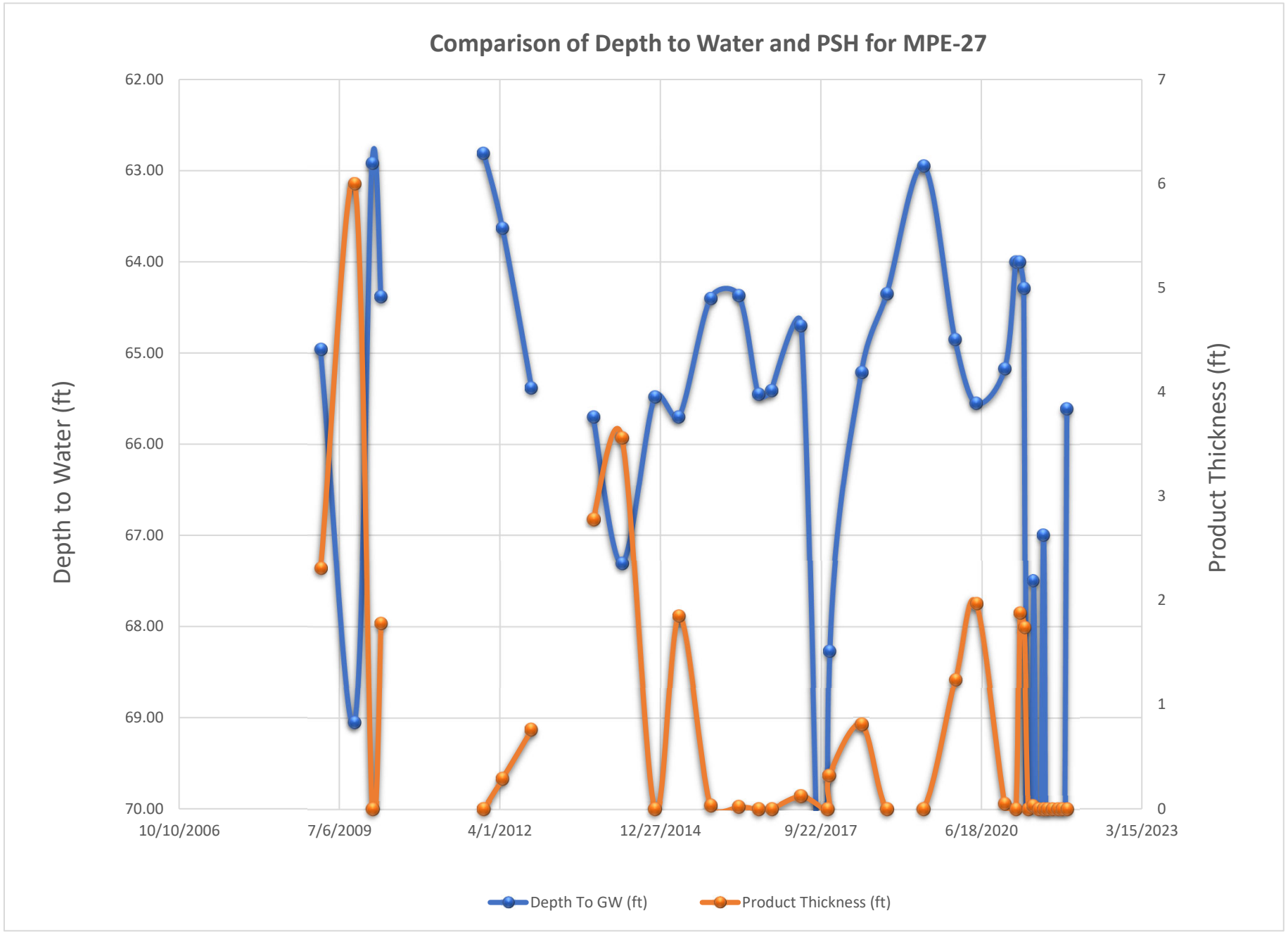

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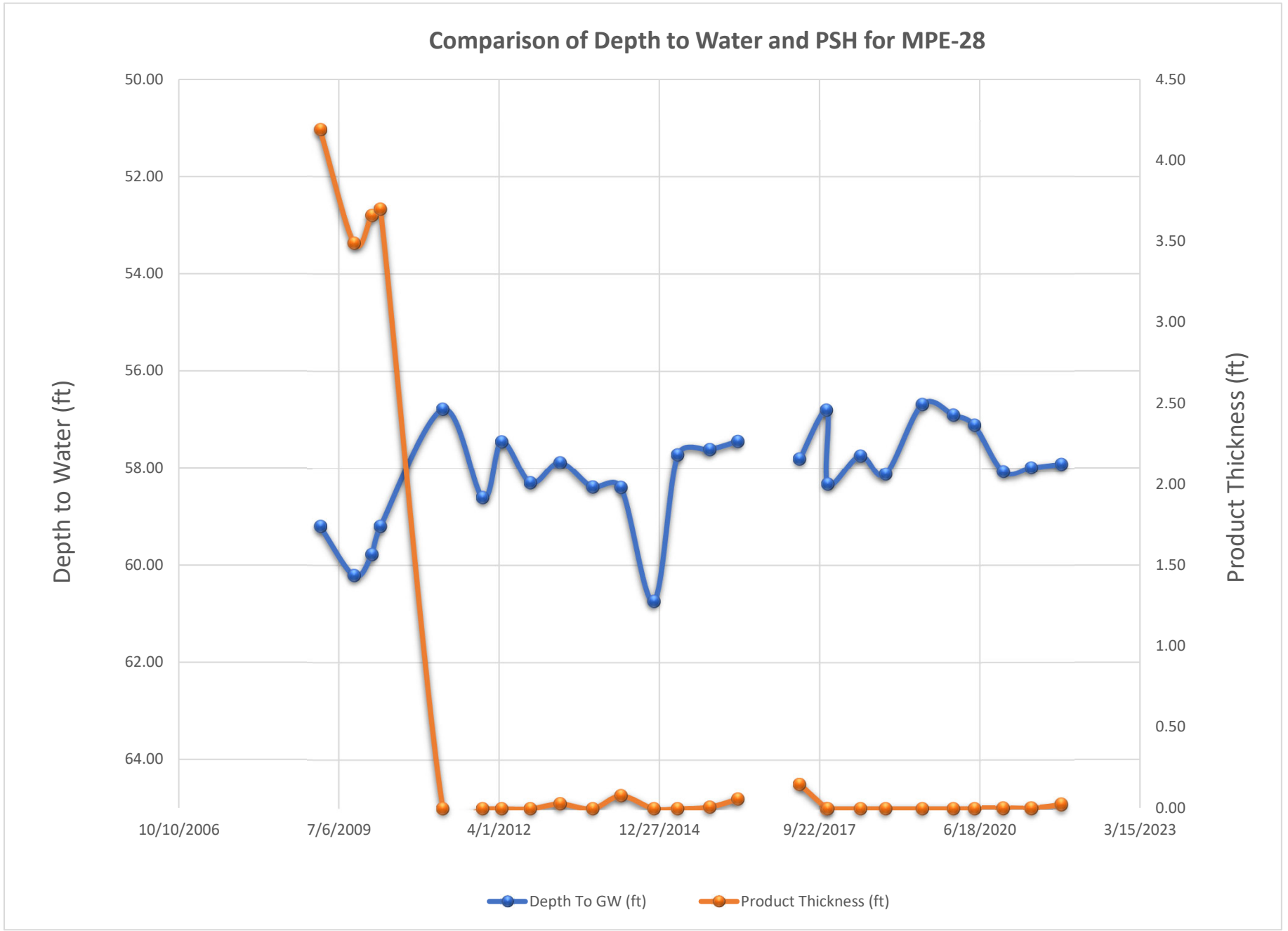

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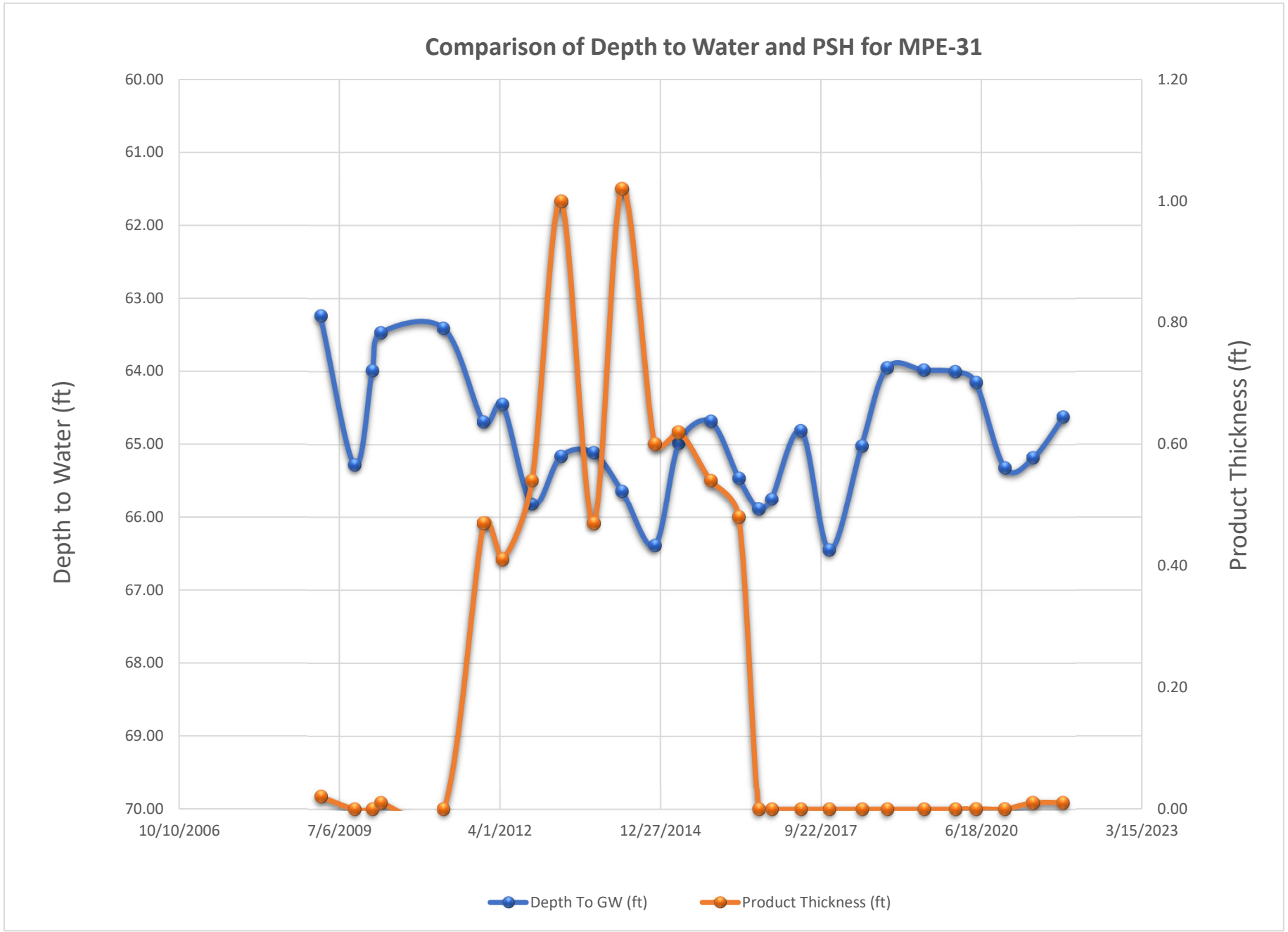

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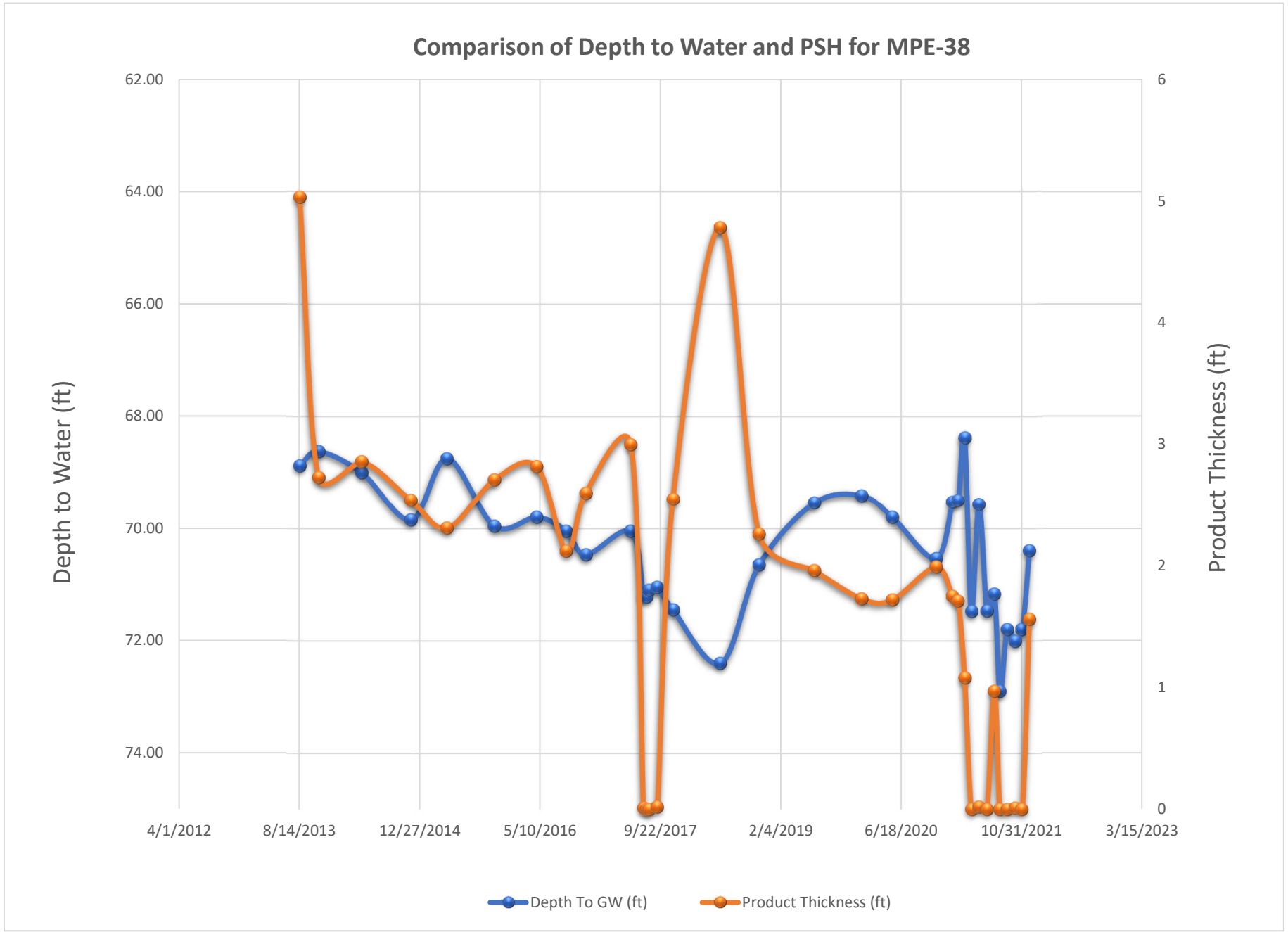

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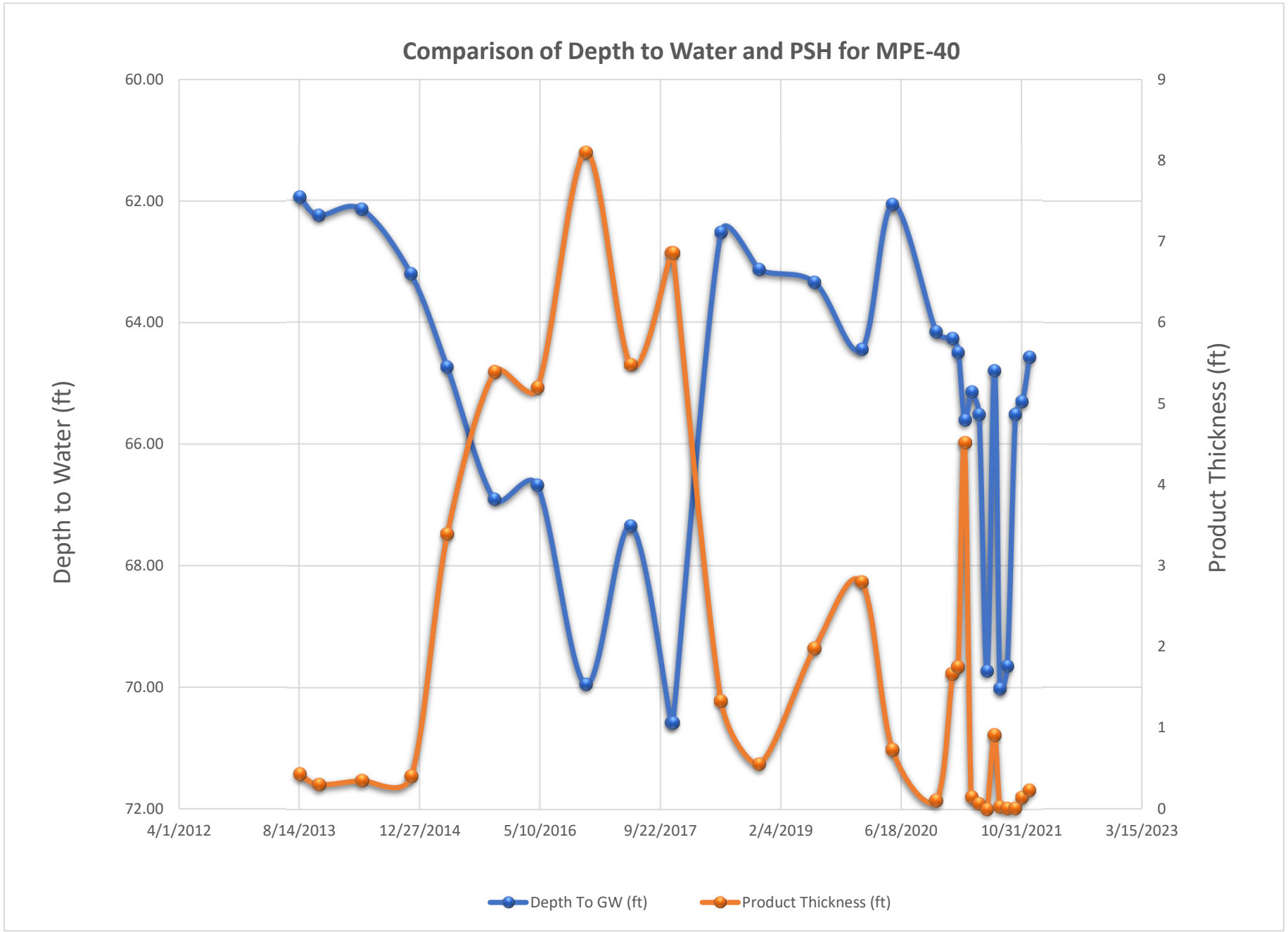

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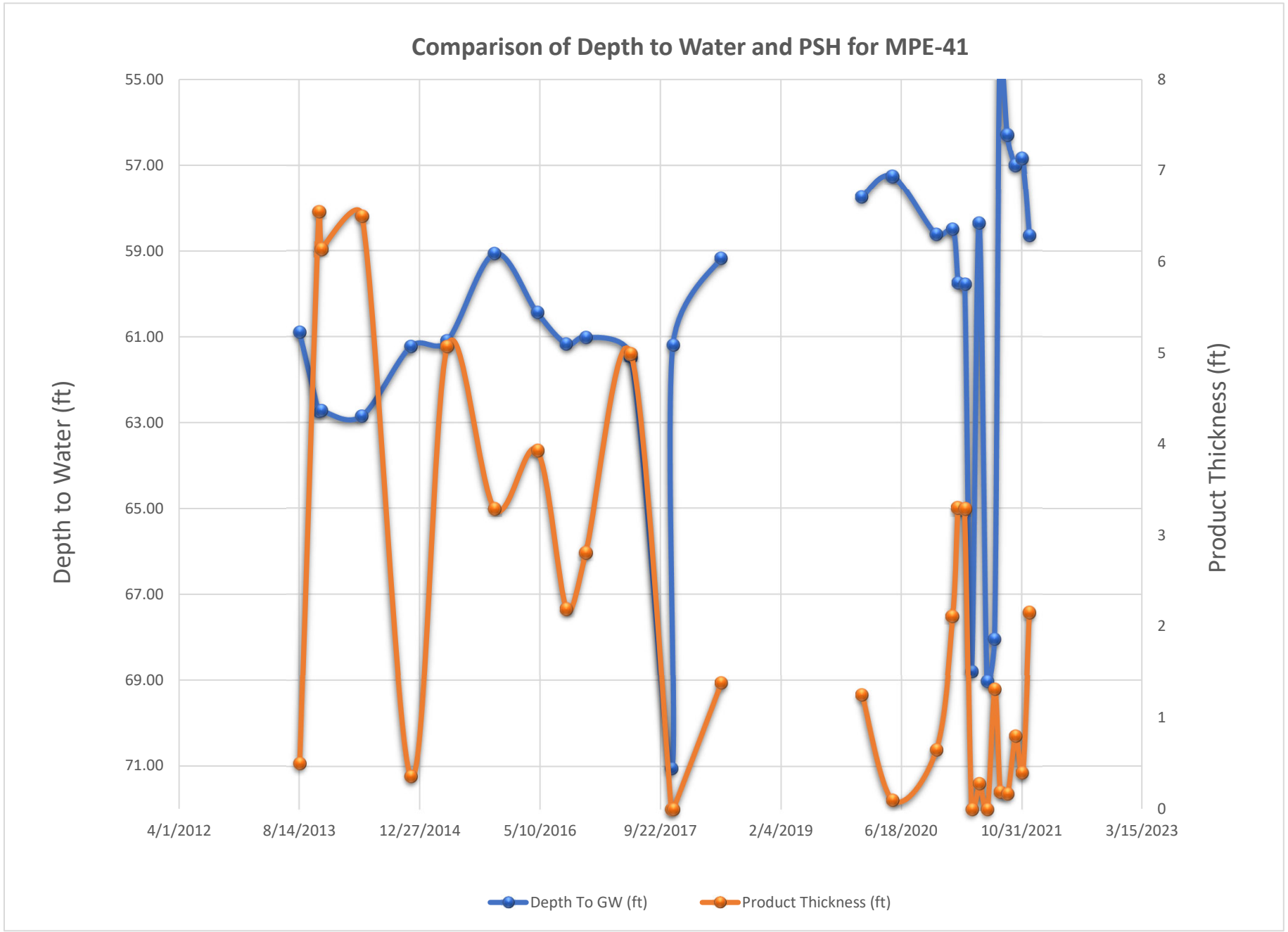

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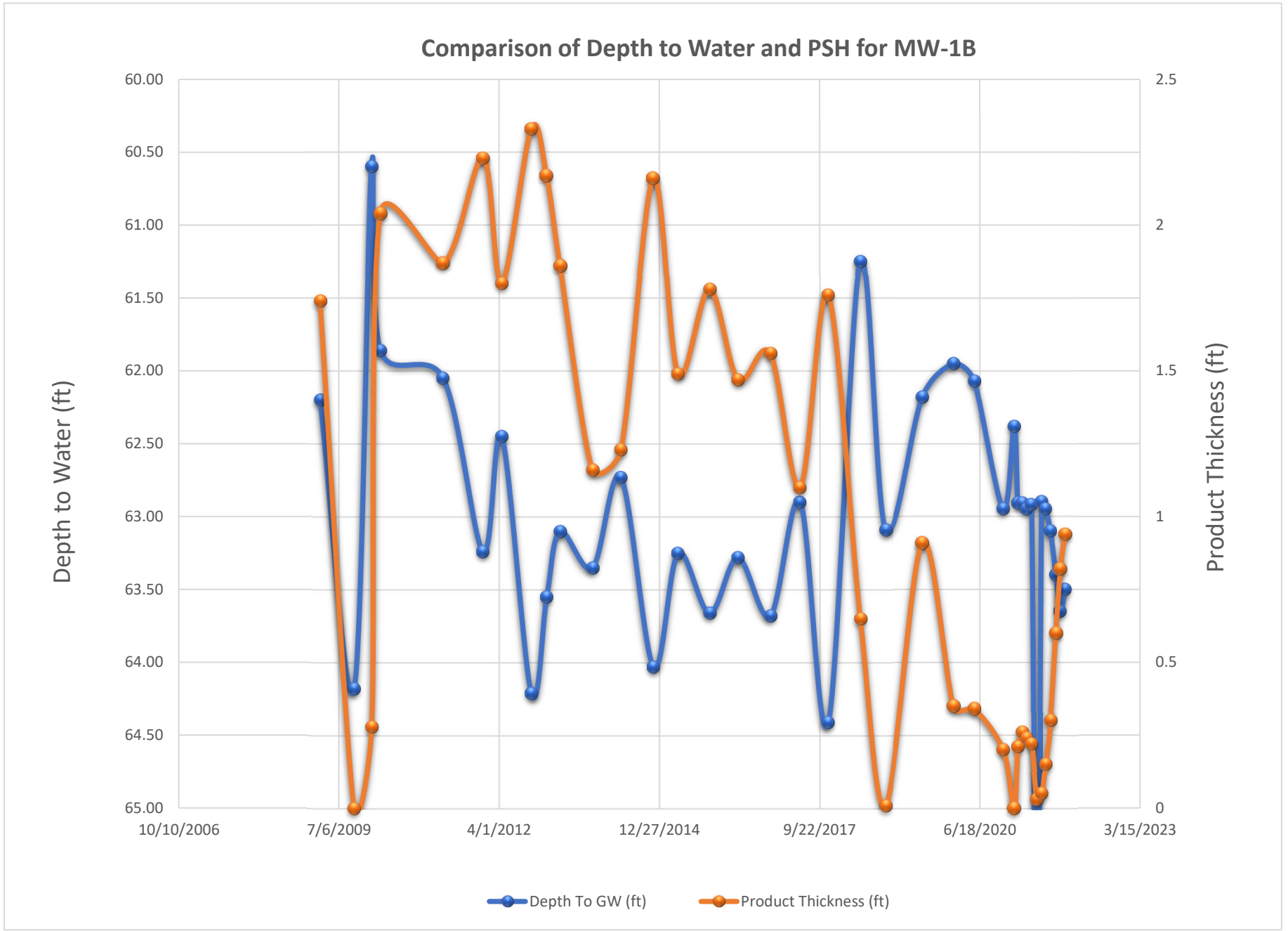

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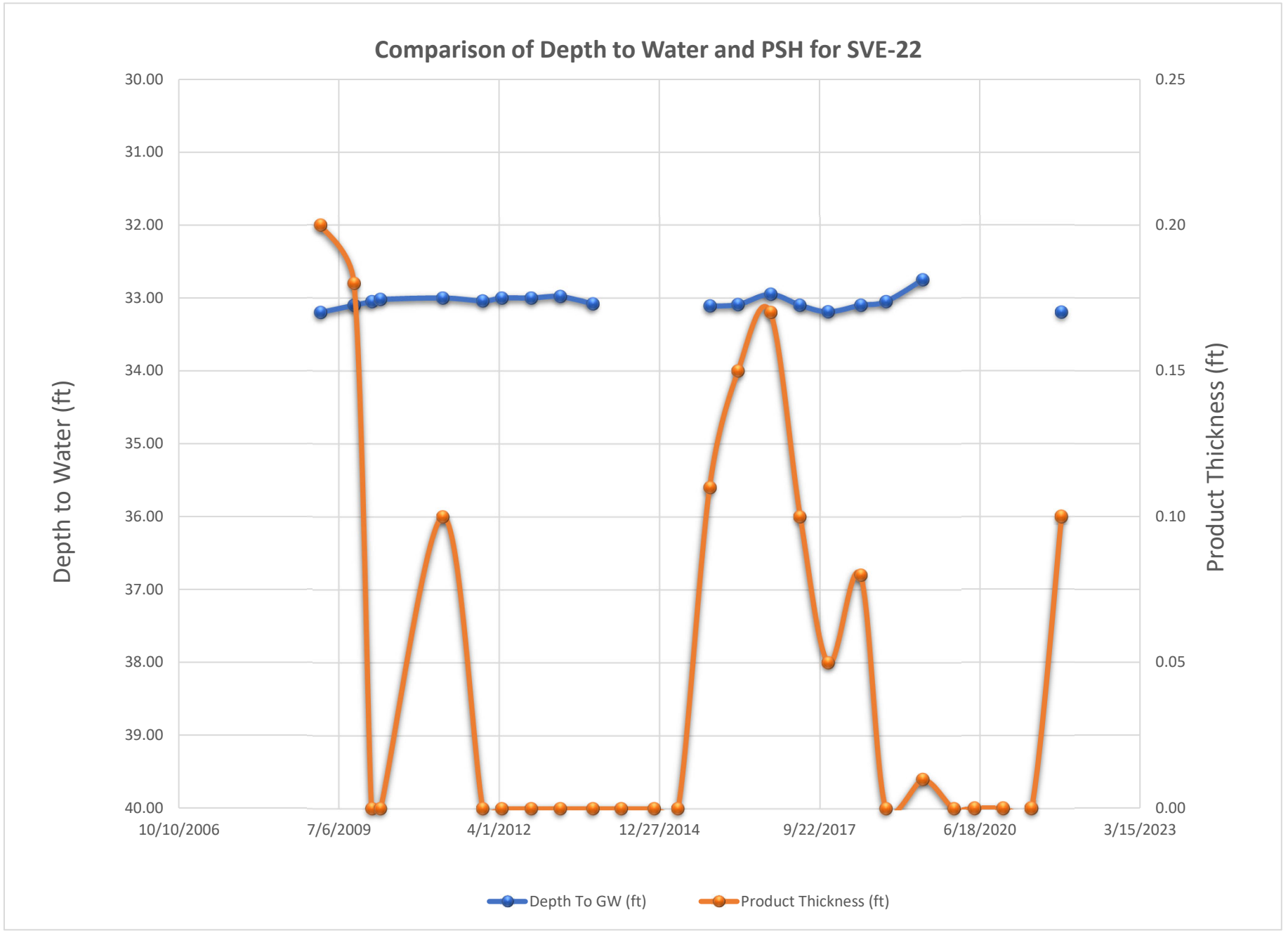

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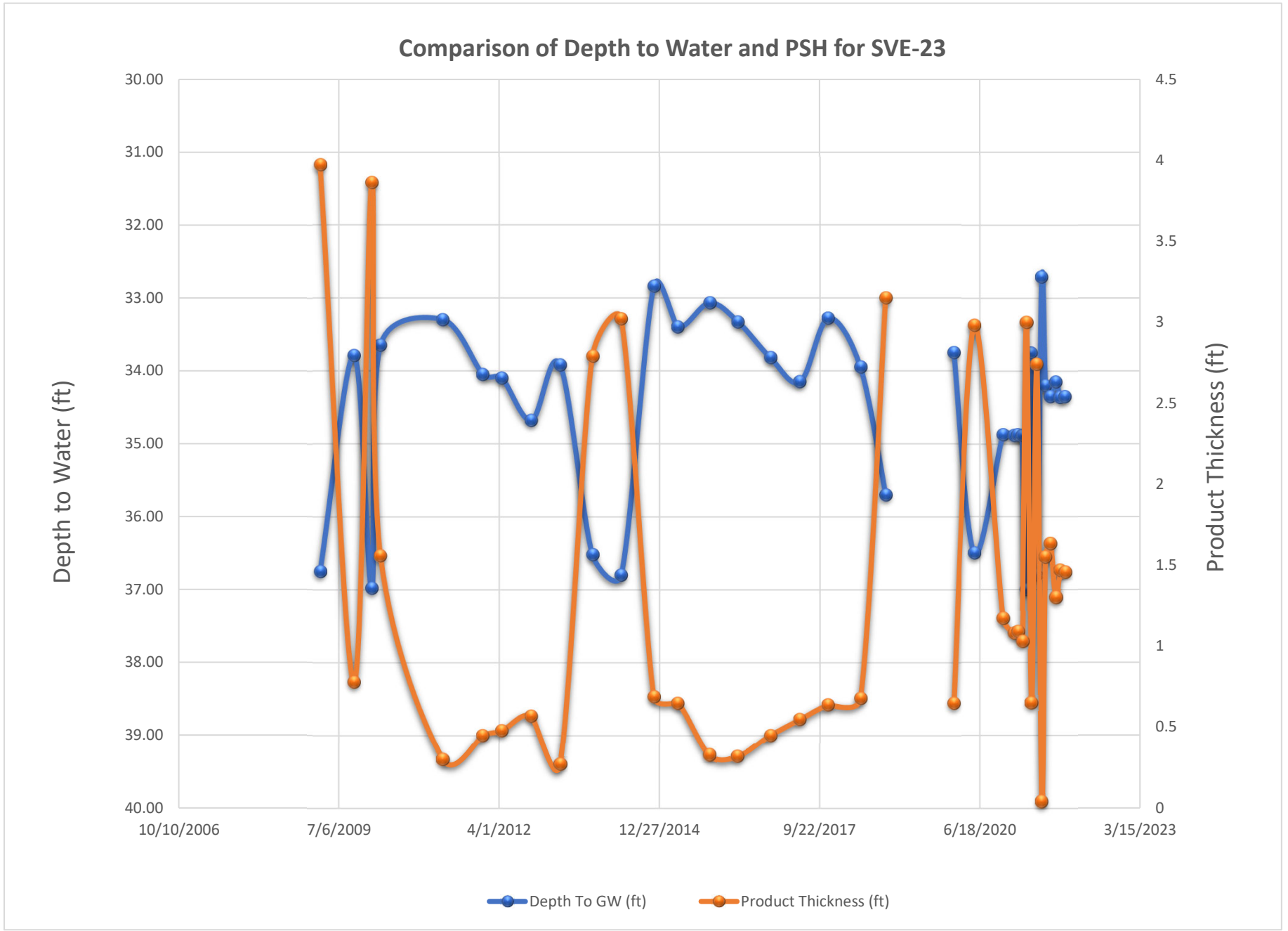

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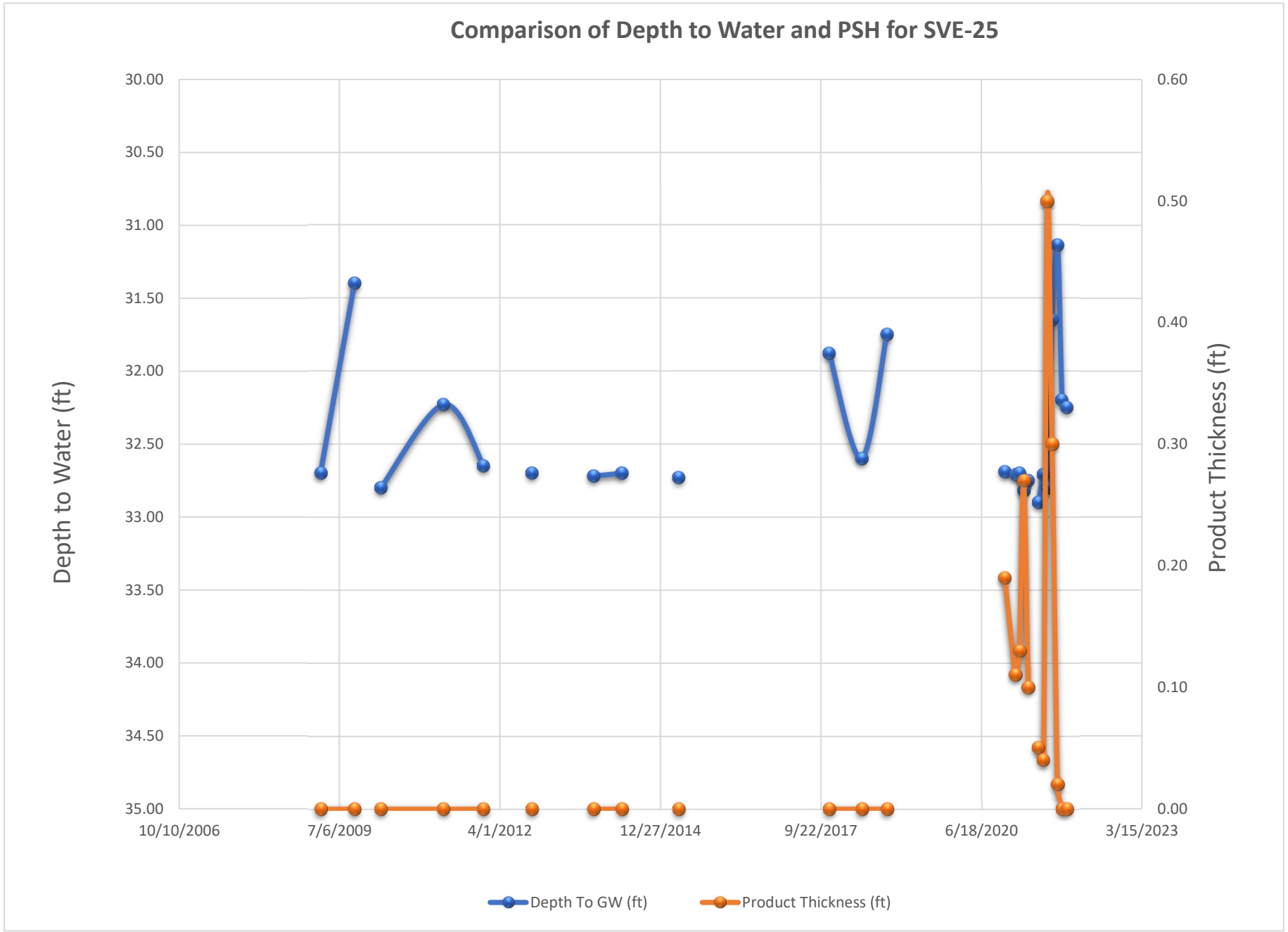

Appendix F

Weather Proofing System Photo Log

Photograph 1: Insulated influent water line for air stripper

Photograph 2: Heat tape installed around air stripper blower

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Photograph 3: Insulated manifold water pipes for groundwater treatment system.

Photograph 4: Insulated pipe for weather proofing 1000-gal irrigation tank

SITE PHOTOGRAPHS
Taken By: Clayton Barnhill
Date: 1-8-2022

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ROSWELL, CHAVES COUNTY, NEW MEXICO

Photograph 5: Insulated discharge pipe from liquid phase carbon vessels

Photograph 6: Insulated piping for liquid phase carbon vessels

SITE PHOTOGRAPHS
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Date: 1-8-2022

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Photograph 7: Installation of insulation and heat tape

Photograph 8: Heat tape, insulation, and cold weather protection for discharge pump

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Photograph 9: Power supply for heat tape insulation

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Appendix G
Well Re-Development Field Notes

Date:	Well No:	Pump In Well:	Pump Removed:	Dnapl:	DTW:	T.D.	Napl Thickness:	Water Column:	Gallons Bailed:	Dnapl:	DTW:	T.D.	Jetted well w/ 100 gal.	Dnapl:	DTW:	T.D.	Water Column:
4/14/2021	MPE-10	No	No	66.51	67.35	74.4	0.84	7.89	8	74.5	74.51	74.53	Yes	0	74.1	74.7	0.6
									12								
4/14/2021	MPE-12	No	No	66	66.9	70.8	0.9	4.8	5	70.75	70.76	71.42	Yes	0	57.96	71.3	13.34
									17					0	69.2	71.8	2.6
4/14/2021	MPE-14	Yes	Yes	68.2	68.5	76.29	0.3	8.09	7	Dry	Dry	71.42	Yes	0	53	76.65	23.65
									20					0	67.65	76.4	8.75
4/16/2021	MPE-17	Yes	Yes	0	72.62	74	0	1.38	1.5	Dry	Dry	72.62	Yes	0	55.9	65.35	9.45
									20					0	69.5	75.05	5.55
									7					0	67.35	75.3	7.95
4/19/2021	MW-16	No	No	67.85	69.7	72	1.85	4.15	0.5	71.55	71.85	72	Yes	0	47.72	71.6	23.88
									5					0	57.52	72	14.48
									5					0	62.2	72	9.8
									6					0	70	72	2
4/19/2021	MPE-38	Yes	Yes	69.55	69.57	74.53	0.02	4.98	10	0	73.45	74.65	Yes	0	60.9	75.27	14.37
									20					0	68.55	75.47	6.92
4/20/2021	MPE-20	Yes	Yes	68.17	68.2	75.7	0.03	7.53	6	0	75.26	76	Yes	0	50.2	75.75	25.55
									20					0	65.5	76	10.5
4/20/2021	MPE-39	Yes	Yes	0	72.16	74	0	1.84	1	Dry	Dry	74	Yes	0	36.55	74	37.45
									20					0	69.45	74	4.55
4/21/2021	MPE-23	Yes	Yes	0	73.4	78.75	0	5.35	4	0	78.55	78.85	Yes	0	35.8	78.8	43
									30					0	61.14	78.95	17.81
5/4/2021	MW-1B	No	No	62.7	62.92	64.89	0.22	2.19	0.125	0	64.53	64.89	Yes	0	22.65	64.89	42.24
									15					0	62.72	64.89	2.17
5/4/2021	MPE-40	Yes	Yes	65.45	65.52	73	0.07	7.55	6	Dry	72.45	73.6	No	0	72.45	73.6	1.15
5/4/2021	MPE-27	Yes	Yes	67.47	67.5	78.8	0.03	11.33	11	Dry	77.97	78.95	Yes	0	48.45	74.75	26.3
									20					0	58.65	78	19.35
									20					0	62.28	79.25	16.97
									5					0	64.63	79.25	14.62
5/5/2021	MPE-16	Yes	Yes	68.37	69.5	76.48	1.13	8.11	8	Dry	77.6	77.7	Yes	0	49.09	77.9	28.81
									20					0	72.85	78	5.15
5/5/2021	MPE-32	Yes	Yes	60.6	60.71	78	0.11	17.4	20	61	61.01	78.25	Yes	0	58.9	78.6	19.7
5/6/2021				59.92	59.95	78.8	0.03	18.88	20					0	60.4	78.8	18.4
5/6/2021	MPE-35	Yes	Yes	0	62.67	78.3	0	15.63	20	0	77.13	78.6	Yes	0	47.8	78.6	30.8
									20					0	65.98	79.15	13.17

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Arrive on-site @ 0800 hr.

Cloudy, 52°F Wind 7 mph SE

71% Humidity 30.06" Barometric

Pressure. Solinst I.P. Serial

22719

Well #	DNapl	DTw	T.D.	Remarks
MPE-10	66.51	67.35	74.40	No pump in well

67.35 - 66.51 = 0.84' Napl Thickness

0.84 x 0.65 = 0.546 Gallons

Screend Interval 54' - 74' 20' screen

Started Bailing with 3.5" x 5.0

PVC Bailer. @ 09:40 hr

@ 0950 Bailed 8 gallons

97% H_2O 3% Napl

7.76 Gallons H_2O 0.24 Gallons Napl

Napl = 74.50' DTw = 74.51'

T.D. 74.53' - Will start

Jetting - re-development.

Started Jetting @ 10:45 hr

@ 11:15 pulled pipe & Jetting

tool from well.

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@ 11:15 hour.

Depth Napl = ∅

Depth H_2O = 59.60'

T.D. = 73.60'

@ 11:50 hr. Bailed MPE-10 DRY

12 Gallons purged

Depth To Napl = ∅

Depth To Water = 74.10'

T.D = 74.70'

Pumped 100 Gallons into well

Recovered 12 Gallons / well Dry

Water Has Black Biomass

Floating on Water from Well

Screen. Pumped Bailed Water

to Transfer Tank to put

through Water Discharge System.

Pumped 22 Gallons purged H_2O

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Well #	DNapl	DTW	T.D.	Remarks
MPE-12	66.0	66.90'	70.80'	4" MPE well No Pump

66.90' - 66.0 = 0.90' Napl Thickness

0.90 x 0.65 = 0.585 Gallons

Screened Interval 54'-74'

Started Bailing with 5.0' x 3.5' PVC Bailer @ 12:55 hour

@ 13:05 Bailed 5 Gallons - DRY

95% H2O 5% NAPL

4.75 Gallons H2O 0.25 Gallons NAPL

DNapl = 70.75' DTW = 70.76-

T.D. = 71.42'

Lowered 4" Jetting Tool.

Started jetting @ 13:35

@ 13:50 Jetted 100 gallons into well @ 14:05 Removed Jetting Tool & pipe

DNapl = 0 DTW = 57.96

T.D. = 71.30'

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@ 14:25 Bailed 17 Gallons - Gray Black H2O Strong Hydrocarbon Odor. - Well Was Bailed Down

Depth To NAPL = 0

Depth To H2O = 69.20'

T.D. = 71.80'

pumped 22 Gallons into Truck mounted Transfer Tank - For placement in Discharge Water System.

MPE-14: 4" MPE Well w/Pump

Screened Interval 54'-74'

Depth To NAPL = 68.20'

Depth To Water = 68.50

T.D. = 76.29'

Started Bailing w/ 5.0' x 3.5' PVC Bailed @ 15:00

@ 15:10 Well Bailed Down - 7 Gallons Black Turbid Water with Strong hydrocarbon odor - Will install Jetting Tool.

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Started pumping with Jetting
Tool MPE-14 @ 15:35 hr.
@ 15:40 hour pumped 100
gallons potable H2O into well.
Started removing pipe & jetting
tool. Finished coming out of
well @ 16:00 Started Bailing
W/ 5.0' x 3.5" PVC Bailer @ 16:05
@16:06 Depth NAPL = Ø
Depth To Water = 53.0'
T.D. = 76.65'
@16:15 Bailed Twenty Gallons
Brown/Black Turbid H2O
with Strong hydrocarbon odor
Depth To NAPL = Ø
Depth To H2O = 67.65'
T.D. = 76.40
will re-gauge in AM and
clean & re-install 4" pump.
Left Site @ 16:45

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Arrive on-site @ 10:00 59°F
Cloudy, Wind 10 mph North, 31%
Humidity 29.82" Hg Barometric Pressure
MPE-14: @ 10:35 hr
Depth NAPL = 66.03
Depth Water = 66.05.
Cleaned pump w/ Pressure
Washer - Re-installed pump
INTO Well Casing.
Started pumping @ 10:45
MPE-17: 4" MPE well with pump
parked pump.
Depth To NAPL = Ø @ 11:05 hr.
Depth To water = ~~72.07~~ 72.62'
T.D. = 74.0
1.38' of water column.
Started Bailing with 5.0' x 3.5"
PVC Bailer @ 11:08
@ 11:12 Bailed 1.5 Gallons Black sludge
with Strong hydrocarbon odor.
Hard bottom to well

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MPE-17:

Put Jetting Tool in well @ 11:15 hr. @ 11:35 hr all pipe & jetting tool ready. Started jetting well @ 11:38 @ 11:45 pumped / jetted 100 gallons of Potable water into Screen interval of MPE-17 55'-70' @ 12:02 Came out with 80' 1" Black pipe & Jetting Tool. @ 12:04

Depth NAPL = Ø

Depth To Water = 55.90'

T.D. = 65.35'

Started Bailing with 5.0'x 35" PVC Bailer @ 12:07 hr.

@ 12:25 hr. Bailed 20 gallons Black H_2O w/ Silt / Biomass Sludge

Depth To NAPL = Ø

Depth To Water = 69.50'

T.D. = 75.05'

Continued Bailing — @ 12:35 Bailed 7 Gallons will let re-charge then gauge well.

* Hard Bottom *

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MPE-17: @ 14:45

Depth NAPL = Ø Screened Interval 55'-70'

Depth To Water = 67.35'

T.D = 75.30'

Installed 4" pump Back in well. Pump started pumping.

Pumped 27 Gallons into Transfer Tank For - Transfer into Water Remediation System.

Left Site @ 15:15 15:45

04/19/2021 Arrived on-site @ 08:30 hr. Sunny 44°F

Wind NNE @ 5 mph Humidity @ 62%

Barometric Pressure ↓ 30.04"

MW-16: 2" MW No pump.

Screened Interval = 46.4 — 71.4

Depth To NAPL = 67.85'

Depth To Water = 69.70'

T.D = 72.0'

69.70' — 67.85 = 1.85' NAPL Thickness

1.85' x 0.16 = 0.296 Gallons

Started Bailing with 3.0'x 1.5' Stainless Steel Bailer @ 09:10 HR

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MW-16: @ 0926 hr. Baited 0.50 Gallons NAPL - Well Baited Dail 95% NAPL 5% H_2O

0.475 Gallons NAPL 0.025 Gallons H_2O

Depth To NAPL = 71.55'

Depth to H_2O = 71.85

T.D. = 72.0'

Will Go into Well with 2" Jetting Tool @ 09:40 hr

Started pumping potable H_2O into Well. Pumped 100 gallons into Well @ 0950

Depth to NAPL = Ø

Depth To Water = 47.72'

T.D. = 71.60'

Started Bailing Well. @ 10:10

Baited 5 Gallons Brown Silty H_2O

No NAPL DNAPL = Ø DTW = 57.52'

T.D. = 72.0'

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MW-16: @ 10:30 hr. Baited an additional 10 Gallons.

DNAPL = Ø DTW = 62.20' T.D. 72.0

@ 11:10 Baited an additional 6 Gallons. DNAPL = Ø

DTW = 70.0' T.D = 72.0

Well Baited Down.

MPE-38: 4" MPE Well w/pump

Depth NAPL = 69.55'

Depth Water = 69.57'

T.D. = 74.53'

Screened Interval =

69.57' - 69.55' = 0.02' NAPL Thickness

0.02' X 0.65 = 0.013 Gallons NAPL

Started Bailing with 3.0' X 3.5" Stainless Steel Bailer @ 14:00

@ 14:10 Baited 10 Gallons Black H_2O with Strong hydrocarbon odor.

Depth To NAPL = Ø Depth to water = 73.45

T.D. = 74.45'

Return to Rain

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MPE-38: Well has bailed down after 10 Gallons Bailed will install Jetting Tool & pump 100 Gallons of Potable H_2O. Started going in well with Jetting Tool @ 14:15 started Jetting @ 14:45 hr. Pumped 100 gallons into well of Potable H_2O. Started coming out of well with Jetting Tool @ 14:55 hr. @ 15:15 hr. Come out of well with Jetting Tool & pipe. DNAPL = Ø

Depth To Water = 60.90'

T.D. = 75.27'

Started Bailing with 3.0'x3.5" Stainless Steel Bailer - @ 15:18

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MPE-38 : @ 15:30 hr. Page 12 of 18

Bailed 20 Gallons Black H_2O with Strong Sheen & hydrocarbon odor.

Depth To NAPL = Ø

Depth To H_2O = 68.55

T.D. 75.47 (Hard Bottom)

Re-installed 4" pump.

Pumped 30 Gallons of Black H_2O w/ PSH/NAPL into on Truck Transfer Tank

Left Site @ 16:00 took Water Tank For more Water.

04/20/2020. Arrive on-site @ 10:30 hr.

Cloudy 42°F Wind NNE @ 15 mph Humidity = 42% 30.19" Hg Barometric Pressure. MPE-20: 4" MPE Well Screened Interval: 48'-73' @ 11:00 hr.

Depth To NAPL = 68.17'

Depth To H_2O = 68.20'

T.D. = 75.70'

68.20' - 68.17' = 0.03' NAPL Thickness

0.03' x 0.65' = 0.0195 Gallons

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MPE-20: Started Bailing well with 3.0'x 3.5" Stainless Steel Baiker @ 11:05 hour @ 11:17 hour Bailed 6 Gallons Black H_2O, Silt, & NAPL

Depth To NAPL = Ø

Depth To Water = 75.26'

T.D. = 76.0

Well Bailed Down - Hard Bottom: Started going in well with Jetting Tools 11:20 hr. @ 11:45 Ran in well with 1" Black pipe & jetting tool. Started pumping 100 Gallons of potable water @ 11:50 hr. @ 12:00 started coming out of well with pipe & jetting Tool. @ 12:20 finished coming out of well.

DNAPL = Ø Depth to H_2O = 50.20

T.D. = 75.75'

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MPE-20: Started Bailing with 3.5" x 3.0' Stainless Steel Baiker @ 12:25 hr. @ 12:45 hr. Bailed 20 Gallons of Black H_2O Strong Biomass & dissolved NAPL.

Depth To NAPL = Ø

Depth To H_2O 65.50

T.D. = 76.0' Hard Bottom.

Pumped 26 Gallons into Track mounted Transfer Tank To Run through Water Discharge System.

MPE-39: 4" MPE well with pump @ 14:20

Depth To NAPL = Ø

Depth To Water = 72.16

T.D. = 74.0'

Started Bailing with 3.0' x 3.5" Stainless steel Baiker @ 14:20

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MPE-39:

TD 74' — DTW 72.16' = 1.84'

1.84' Water Column.

1.84' x 0.65 = 1.196 Gallons-

Well Bailed Dry @ 1 Gallon purged. Black H_2O with strong hydrocarbon odor.

@ 14:30 started going into well with 1" Black Pipe & Jetting Tool. Ran all pipe & Jetting Tool in well @ 14:45 started jetting @ 14:50 hr. with 100 gallons of potable water

@ 15:00 pumped 100 Gallons into well. Will start removing 1" Black pipe & Jetting Tool.

@ 15:15 Depth To NAPL = Ø

Depth To Water = 36.55'

T.D. = 74.0

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MPE-39 Started Bailing with 3.0' x 3.5" Stainless steel Bailer @ 15:20 Bailed 20 Gallons Gray Black to Clear H_2O No NAPL

Depth To NAPL = Ø

Depth To H_2O = 69.45'

T.D = 74.0 pump water into Tank For Transfer to Water Discharge System.

Re-installed Well pump after pressure washing.

Left Site @ 16:30

04/21/2021 Arrive on-site @ 10:45 hr. Sunny 46°F

Wind SSE @ 17mph humidity = 38%

Barometric Pressure 30.32" Hg ↓

Worked on getting MPE-41 pump unstuck. No luck. pump still stuck.

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MPE-~~39~~ 23: 4" MPE Well with pump @ 13:30 pulled pump — Depth To Napl = ∅ Depth To H_2O = 73.40' T.D. = 78.75' 78.75' - 73.40 = 5.35' Water 3.5 gallon Column, Started Bailing with 3.0' x 3.5" Stainless Steel Bailer @ 13:45 @ 13:50 Baled 4 Gallons Black H_2O with strong Napl Hydrocarbon odor & Biomass Well has Baled Down. Depth to Napl = ∅ Depth To Water = 78.55' T.D. = 78.85' Started putting 1" Black pipe & jetting tool into well @ 14:00 @ 14:20 Jetting tool into well.

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MPE-23: Started jetting 100 Gallons of Potable Water into Well @ 14:25 hour. @ 14:40 pumped 100 Gallons potable water into MPE-23 - well will start coming out of well with 1" Black pipe & jetting tool. @ 15:00 Depth To Napl = ∅ Depth to Water = 35.80' T.D. = 78.80' Started Bailing @ 15:05 with 3.0' x 3.5" Stainless Steel Bailer @ 15:25 Baled 30 Gallons of Black H_2O with strong hydrocarbon odor. Hard Bottom. Depth to Napl = ∅ Depth To Water = 61.14' T.D. = 78.95' Re-installed pump in well. Left Site @ 16:00 hr

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ARRive on-site 0800 Sunny 54°F NE 8 mph Humidity 39% Barometric Pressure 30.11 in

Pumped 25 Gallons from 55 gallon drum @ MPE-23 for Disposal into Water system.

MW-1B: 2" SCH 40 PVC MW Screened Interval 55'-65'

D_{NAPL} = 62.70' DTW = 62.92'

T.D. 64.89

62.92 - 62.70 = 0.22' NAPL

0.22 X 0.16 = 0.0352 gallons NAPL = Started Bailing with 3.0' X 1.8" Stainless steel Bailer @ 09:15 hr.

@ 0920 Bailed Dry < 0.125 Gallons

D_{NAPL} = Ø DTW = 64.53'

T.D. = 64.89' Water column depleted. Ran into well with 2" Jetting Tool will Jet 100 Gallons across screened interval (Potable Water)

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@ 0940 hr. pumped 100 Gallons Potable Water into MW-1B.

@ 0945 hr. D_{NAPL} = Ø

DTW = 22.65' T.D. = 64.89'

Started Bailing with 10' x 1.8" PVC Bailer @ 0950

@ 10:10 Bailed 15 Gallons Gray Black to clear H_2O

D_{NAPL} = Ø DTW = 62.72'

T.D. = 64.89' Pumped Purged H_2O into Truck mounted Tank For Placement into Water Discharge System.

MPE-40: 4" MPE Well w/ 2" pump.

D_{NAPL} = 65.45 DTW = 65.52'

T.D. = 73.0'

65.52' - 65.45' = 0.07' NAPL Thickness

0.07 X 0.65 = 0.0455 Gallons.

Started Bailing with 3.0' x 3.5" Stainless Steel Bailer.

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MPE-40 : @ 11:55 Bailed

6 Gallons — Black H2O Strong Hydrocarbon

DTW = 72.45 T.D. = 73.60

Well has bailed Down.

Will Go in Well will 2"

Jetting Tool and pump

100 Gallons OF Potable

H2O into Screened Interval.

* Jetting Tool Got Stuck

in Well — Could not get past.

@ 17 feet From Top of Casing.

Shift in Soil has pushed Casing

over causing bent in Casing. *

Cleaned pump with Pressure

Washer & Re-installed 2" pump.

@ 12:50 hr.

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MPE-27 : 4" MPE Well w/ pump

Screened Interval 54'-79'

DNAPL = 67.47' DTW = 67.50'

T.D. = 78.80' @ 13:10 hr.

67.50' - 67.47' = 0.03' NAPL

0.03 x 0.65' = 0.0195 Gallons NAPL (Thickness)

Started Bailing Well with

3.0' x 3.5" Stainless Steel Bailer

@ 13:15 hr. @ 13:30 hr.

Well Bailed down @ 11 Gallons

purged. Hard Well Bottom.

DNAPL = ∅ DTW = 77.97'

T.D. = 78.95' started running

4" Jetting Tool into Well @

13:40 hr. Jetted Well with

100 Gallons of Potable Water

Started Jetting Well @ 14:07 hr.

@ 14:13 started removing

Jetting Tool. @ 14:35 Tool Removed

DNAPL = ∅ DTW = 48.45'

T.D. = 74.75 (Silt on bottom)

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MPE-27: @ 14:45 started Bailing Well with 3.0' x 3.5" Stainless Steel Bailer @ 14:45 hr. @ 15:05 hr. Bailed 20 Gallons DTW = 58.65

D_{NAPL} = Ø

T.D. = 78.0'

Spray H2O to clean

@ 15:25 Bailed an additional 20 Gallons - Brown fine silt

D_{NAPL} = Ø DTW = 62.28'

T.D. = 79.25'

@ 15:44 Bailed an additional 5 Gallons Brown/Silty Water.

D_{NAPL} = Ø DTW = 64.53'

T.D. = 79.25 Hard Bottom.

Pressure washed pump & Re-installed.

Pumped 100 Gallons into Water Discharge System

Left Site @ 16:30

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Arrive on-site @ 0800 hr

Sunny 64°F, SSE 16 mph

Humidity 47% Barometric Pressure 30.05 in Hg.

MPE-16: 4" MPE well w/pump screened interval: 54-74'

@ 0925 D_{NAPL} = 68.37' DTW = 69.50

T.D. = 76.48'

69.50 - 68.37 = 1.13' NAPL Thickness

1.13' x 0.65 = 0.7345 Gallons NAPL

Started Bailing with 3.0' x 3.5" Stainless Steel Bailer @ 0930

@ 0945 Bailed 8 Gallons water & NAPL 95% H_2O 5% NAPL

7.6 Gallons H_2O 0.40 Gallons NAPL. Well Bailed Dry.

D_{NAPL} = Ø DTW = 77.60'

T.D. = 77.70'

Started Going into well with 4" Jetting tool @ 0950 @ 10:10 hr Jetting Tool in well Started Jetting screened interval @ 10:25

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MPE-16: @ 10:35 Finished Jetting screened interval of well with 100 gallons Potable Water. Start coming out of well with jetting tool 10:40 @ 11:05 out of well with jetting tool. $D_{NAPL} = \emptyset$ $D_W = 49.09'$ T.D. 77.90' Started Bailing well with 3.0' x 3.5" Stainless Steel Bailer @ 11:55 @ 12:25 hr Bailed 20 gallons Brown S.I.T Strong hydrocarbon odor & Sheen. $D_{NAPL} = \emptyset$ DTW = 72.85 T.D. = 78.0 Hard Bottom To well. Pumped Twenty Eight Gallons into Truck mounted Tank For Transfer To Groundwater System -

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MPE-32: 4" MPE well w/pump Screened Interval = 44'-74' D_{NAPL} = 60.60' D_{TW} = 60.71' T.D = 78.0

60.71' - 60.60 = 0.11' Napl Thickness

0.11 X 0.65 = 0.075 Gallons Napl

Started Bailing with Stainless Steel 3.0' X 3.5" Bailer @ 13:40 @ 14:00 Bailed 20 gallons Brown Sand/S.I.T Strong hydrocarbon. D_{NAPL} = ~~#~~ 61.0' DTW = 61.01' T.D. = 78.25

98% H_2O 2% Napl =

@ 14:10 Going into well with jetting tool. @ 14:30 pump started pumping 100 Gallons potable water into well. Finished @ 14:40 started removing jetting tool. @ 14:55 Jetting Tool Removed - $D_{NAPL} = \emptyset$ D_{TW} = 58.90' T.D. = 78.60 Started Bailing w/ 3.0' x 3.5" Stainless steel Bailer @ 15:00 - DSR 2001 Mast has broken part. Left site @ 16:00

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Earthcon Consultants, Inc. By: CMB
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Arrive on-site @ 10:00 hr. Sunny 62°F
Wind NE @ 15mph Humidity 53%
Barometric Pressure 30.16" ↑
MPE 32 : D_{TPC} = 59.92 D_{TW} = 59.95'
T.D. = 78.80'
started bailing with 3.0'x3.5'
stainless steel Bailer @ 10:40 hr
@ 10:55 Bailed 20 gallons gray
Black H_2O strong HC odor
Dtpc = .0 DTW = 60.40'
T.D. = 78.80 Hard Bottom
placed purged H_2O in truck (40 gallons)
mounted Tank For placement
in Water discharge System
Pressure Washed Pump and
Re-installed into Well.

The manufacturers of *Rite in the Rain* all-weather writing products are grateful to the numerous environmental experts who have contributed to the development of this book. Should you have any additions, improvements or corrections for future publications of this field book or have suggestions for other environmental field book formats, we welcome your input.

Although much effort has been taken to ensure the accuracy of the following reference pages, J L Darling LLC cannot guarantee the accuracy of the data.

To provide input or solicit pricing on these or custom printed field books, contact your *Rite in the Rain* dealer or J L Darling LLC, 253-922-5000 or fax 253-922-5300.

www.RiteintheRain.com / sales@riteintherain.com

Common Field Data Error Codes

Error codes are used to explain common mistakes and are written above or close to the mistake.
Commonly used error codes include:

RE	Recording Error
CE	Calculation Error
TE	Transcription Error
SE	Spelling Error
CL	Changed for Clarity
DC	Original Sample Description Changed After Further Evaluation
WO	Write Over
NI	Not Initialed and Dated at Time of Entry
OB	Not Recorded at the Time of Initial Observation

Note: Error code should be circled, dated, and initialed when recorded.

Hazard Classifications

Class 1 Explosives
Class 2 Gas
Class 3 Flammable Liquid
Class 4 Flammable Solids (Potential spontaneous combustion, or emission of flammable gases when in contact with water)
Class 5 Oxidizing Substances and Organic Peroxides
Class 6 Toxic (poisonous) and infectious substances
Class 7 Radioactive material
Class 8 Corrosives
Class 9 Miscellaneous dangerous goods

Container type abbreviations (for sampling guidelines)

BR - Boston Round • ABR - Amber Boston Round • AJ - Amber Jug • AWM - Amber Wide Mouth • Poly - Polyethylene Bottles • BOD - Bottle • CWM - Clear Wide Mouth

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MPE-35 : 4" MPE well w/pump
Screened interval: 54'-74'
@13:30 D_{NAPL} = Ø
DTW = 62.67' T.D = 78.30'
Started Bailing with 3.0'x3.5" Stainless steel Bailer @ 13:31
@13:52 Bailed 20 gallons Brown Silty Water with Strong Hydrocarbon odor
D_{NAPL} = Ø DTW = 77.13'
T.D. = 78.60
Well has bailed down - will put 4" jetting tool in well.
Started jetting with 100 gallons of potable water @ 14:20
@14:25 Started - Finished jetting 20' screened interval and started coming out of well with jetting tool.

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MPE-35: @ 14:45 jetting tool out of well- D_{NAPL} = Ø
DTW = 47.80' T.D. = 78.60'
Started Bailing with 3.0'x3.5" Stainless Steel Bailer @ 14:50
@15:10 Bailed 20 Gallons gray/brown Silty Water with Strong hydrocarbon
D_{NAPL} = Ø DTW = 65.98'
T.D. 79.15 hard bottom- Well Re-install 4" pump after pressure washing pump pumped 40 Gallons into Truck mounted Tank for Transfer to Water Remediation System Left Site @ 16:00

Rite in the Rain

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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 152515

CONDITIONS

Operator:	OGRID:
Transwestern Pipeline Company, LLC 8501 Jefferson NE Ave Albuquerque, NM 87113	329750
	Action Number: 152515
	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