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Your Ref.: Incident Number nAPP2214000463
Our Ref.: 12603932-NMOCD-1

REVIEWED

By Mike Buchanan at 3:22 pm, Jun 07, 2024

May 1, 2024

New Mexico Oil Conservation Division
State of New Mexico
Energy, Minerals, and Natural Resources Department
811 South First Street
Artesia, New Mexico 88210

2023 Annual Groundwater Monitoring Report
A-7 Bettis
ET Gathering & Processing, LLC
Lea County, New Mexico
New Mexico Oil Conservation Division Nos. 1RP-9-5-2186 and 1RP-1540
Incident Number nAPP2214000463

Dear Sir or Madam:

On behalf of ET Gathering & Processing, LLC (ETG&P), formerly 2025 Texas Pipeline, Ltd., GHD Services Inc. (GHD) is submitting the 2023 Annual Groundwater Monitoring Report (Report) for the above-referenced property (Site) to the New Mexico Oil Conservation Division (NMOCD). The Report summarizes activities performed at the Site during 2023.

Should you have any questions or comments regarding this submittal, please don't hesitate to contact the undersigned.

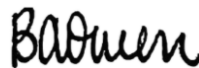
Regards,

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BO/jlf/1

Encl.: 2023 Annual Groundwater Monitoring Report

Copy: Stacy Boultinghouse, Energy Transfer
Charlie Bettis, Landowner

Review of the 2023 Annual Groundwater Monitoring Report A-7 Bettis: Content Satisfactory

1. Continue semi-annual groundwater monitoring for chloride in MW-1, MW-3, MW-6, MW-7, MW-9 and MW-10
2. Continue annual groundwater monitoring in wells: MW-2, MW-4, MW-5, MW-8, and MW-11
3. BTEX may be suspended from the sampling program as at least eight (8) consecutive quarters and/or semi-annual events have demonstrated concentrations below the standards in the WQCC.
4. Proceed to install MW-12 upgradient of MW-10 as planned.
5. Submit the 2024 Annual Report by April 1, 2025



2023 Annual Groundwater Monitoring Report

A-7 Bettis

Lea County, New Mexico

NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

Incident No. nAPP2214000463

ET Gathering & Processing, LLC

May 1, 2024

→ The Power of Commitment

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1. Introduction

This report presents the results of groundwater monitoring activities performed during 2023 by GHD Services Inc. (GHD) at the ETC Texas Pipeline, Ltd. (ETC) A-7 Bettis Site (Site). The Site is located at 32° 28' 31.3212" North and 103° 8' 31.74" West within Unit letter L, Sections 14 and 15 (**Figure 1**). The property on which the Site is located is owned by Mr. Charlie Bettis of Eunice, New Mexico. The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under remediation case numbers 1RP-9-5-2186 and 1RP-1540 (associated with incident number nAPP2214000463).

1.1 Site Background

On August 22, 2007, former owner/operator Southern Union Gas Services, Ltd. (SUGS) discovered a release from a section of a 10-inch low pressure natural gas pipeline that had failed. SUGS verbally notified NMOCD regarding the release on the same day. The failure resulted in a release of a mixture of crude oil, produced water, and natural gas. The "Release Notification and Corrective Action" (Form C-141) indicated a release of approximately 200 barrels (bbls) of fluid, of which approximately 130 bbls were recovered via vacuum truck. The initial Form C-141 was submitted and approved by the NMOCD Hobbs District Office on August 31, 2007, and assigned case number 1RP-1540. On March 24, 2009, Form C-141 was resubmitted and again approved by the NMOCD Hobbs District Office and assigned the case number 1RP-9-5-2186.

Based on the product released, it was determined that the constituents of concern (COCs) to be evaluated at the Site were benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH), total dissolved solids (TDS), and chloride.

Between February 2009 and October 2023 soil and groundwater assessments and remediation events have been conducted at the Site, including the collection and analysis of surface soil samples, excavation and off-Site disposal of impacted soils, advancement of five soil borings for vertical and horizontal delineation, installation of eleven groundwater monitoring wells (MW-1 through MW-11), installation of passive oxygen release socks, and installation of an aeration windmill. Details of these events can be found in previous reports prepared for this Site; however, a summary of the events and their respective results are provided below.

Horizontal delineation of the impacted area was conducted with the collection and analysis of ten surface soil samples on February 26, 2009, which was followed by the excavation of impacted soils from March to July 2009. Additional impacted soils remained in place that could not be removed due to safety considerations. The excavation was partially backfilled and compacted with clean imported soil to 15 feet below ground surface (bgs). A 20-millimeter polyethylene liner was installed over the backfilled soil to minimize the vertical migration of contaminants left in-situ.

Five soil borings, SB-1 through SB-5, were advanced in October 2012 to assess the lateral and vertical extent of soil impacts, three of which were converted into monitoring wells (MW-1 through MW-3). Initial groundwater analytical results indicated that concentrations of BTEX, TDS, and chloride were detected in groundwater samples above the New Mexico Water Quality Control Commission (NMWQCC) standards.

Between August 2013 and December 2015, monitoring wells MW-4 through MW-11 were installed at the Site to further delineate groundwater impacts. Light non-aqueous phase liquid (LNAPL) has never been observed in any of the monitoring wells at the Site.

O-Sox™, passive oxygen release socks, were installed in monitoring wells MW-1 and MW-6 through MW-9 on July 19, 2016, and were replaced on December 9, 2016. However, the socks were swelling in the wells, resulting in difficult removal, and the use of the socks was discontinued in 2017.

To facilitate the degradation of low-level dissolved phase hydrocarbons in groundwater at the Site, GHD installed an aeration windmill in August 2019. The windmill is located between monitoring wells MW-6 and MW-8 and was set to distribute air into groundwater via tubing and air diffusion stones in monitoring wells MW-8 and MW-9. The windmill operated from August through October 2019 and March through September 2020. Analytical results from groundwater

samples collected since discontinuation of windmill operation in 2020 suggest that benzene concentrations in groundwater remain below NMWQCC standard. The windmill has not been operated since September 2020.

In the 2019 Annual Groundwater Monitoring Report submitted to the NMOCD, a revised sampling schedule was proposed for the Site, as follows:

- Continue sampling monitoring wells MW-1, MW-2, and MW-6 through MW-11 on a semi-annual basis.
- Decrease sampling for monitoring wells MW-3, MW-4, and MW-5 to an annual basis as those wells had never exceeded the NMWQCC standard for target constituents.

NMOCD approved the revised schedule on April 28, 2020, via e-mail. The revised schedule was implemented in 2021; however, monitoring well MW-2 was swapped for monitoring well MW-3 (i.e., monitoring well MW-2 sampling was reduced to semi-annual instead of monitoring well MW-3). Monitoring well MW-2 has also never exceeded the NMWQCC standard for target constituents.

On May 24, 2023, NMOCD responded to the 2021 Annual Groundwater Monitoring report prepared and submitted for the Site. Their response included further modifications to the sampling schedule, as follows:

- Terminate all sampling from monitoring wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-8, and MW-11.
- Terminate sampling for BTEX from monitoring wells MW-1, MW-6, MW-9, and MW-10.
- Continue sampling for chloride from monitoring wells MW-1, MW-6, MW-9, and MW-10.

Additionally, NMOCD requested a monitoring well be installed up-gradient of monitoring well MW-10 to confirm the concentrations of chloride in monitoring well MW-10 “as soon as practicable.” This schedule was only partially implemented in 2023 by discontinuing the BTEX analysis in the second half of 2023. The remainder of the sampling followed the schedule approved by NMOCD approved in April 2020.

The 2022 Annual Groundwater Monitoring report prepared and submitted for the Site requested a revised sampling schedule as follows:

- Continue semi-annual groundwater monitoring for chloride in monitoring wells MW-1, MW-3, MW-6, MW-7, MW-9, and MW-10.
- Conduct annual groundwater monitoring for chloride in monitoring wells MW-2, MW-4, MW-5, MW-8, and MW-11.
- Discontinue groundwater monitoring for BTEX in all monitoring wells.

On February 12, 2024, the NMOCD approved the revised sampling schedule and again requested a well be installed upgradient of monitoring well MW-10. In 2024, this revised sampling schedule will be implemented, and a monitoring well will be installed upgradient of monitoring well MW-10.

Details of the 2023 monitoring events are presented in this report.

2. Groundwater Monitoring

GHD performed semi-annual groundwater monitoring events at the Site on April 27 and October 17, 2023. The monitoring program included gauging and sampling the monitoring wells as per the following schedule.

April 27, 2023

- Monitoring wells MW-1, MW-3, and MW-6 through MW-11.

October 17, 2023

- Monitoring wells MW-1 through MW-11.

2.1 Monitoring Well Gauging

On April 27 and October 17, 2023, GHD personnel measured the depth to groundwater in the wells indicated above using an electronic oil/water interface probe (IP). The IP was cleaned with laboratory grade soap and purified water prior to gauging each monitoring well. Depth to groundwater and calculated groundwater elevations are summarized in **Table 1**.

Based on the data collected in 2023, groundwater flow is generally southeast and is consistent with historical data for the Site. The groundwater gradient was calculated to be approximately 0.0023 foot per foot (ft/ft) in April and 0.0018 ft/ft in October. Groundwater potentiometric surface maps are presented as **Figure 3** and **Figure 4**.

2.2 Groundwater Sampling

Following gauging during each 2023 event, GHD personnel utilized dedicated polyethylene bailers to purge a minimum of three well volumes of groundwater or until the well was dry. Purge water generated during gauging and sampling events was poured onto the concrete well pad surfaces and allowed to evaporate. After purging, groundwater quality field parameters of temperature, pH, oxidation reduction potential, and conductivity were collected with a field-calibrated multi-parameter groundwater quality meter to confirm stabilization of the groundwater prior to the collection of groundwater samples. A summary of groundwater field parameters is presented in **Table 2**. The monitoring wells were given time to recover prior to collecting a groundwater sample.

Following purging and confirmation of groundwater stabilization, groundwater samples were collected via dedicated polyethylene bailers, placed in laboratory-prepared sample containers, labelled, packed in a cooler with ice, and transported under chain-of-custody documentation to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico in March and to ALS Life Sciences Division, Environmental laboratory in Houston, Texas. All samples collected in April 2023 were analyzed for BTEX via United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and chloride via USEPA Method 300.0. All samples collected in October 2023 were analyzed for chloride via USEPA Method 300.0.

2.3 Quality Assurance/Quality Control

During each groundwater monitoring event, a field duplicate was collected as a Quality Assurance/Quality Control (QA/QC) sample and subsequently submitted for laboratory analysis. A trip blank was also submitted as a QA/QC sample for each groundwater monitoring event.

2.4 Analytical Results

The NMWQCC mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the NMAC (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use.

The groundwater analytical results for 2023 are summarized in **Table 3** and the corresponding laboratory analytical reports are included in **Appendix A**. A chloride and benzene concentration map is presented as **Figure 5**. A summary of 2023 results is discussed below:

- Concentrations of BTEX were either not detected above laboratory detection limits or were detected but concentrations were not in exceedance of the NMWQCC standards.
- Chloride was detected in all groundwater samples collected from the Site; however, only the samples collected from monitoring wells MW-3, MW-7, MW-9, and MW-10 in April and from monitoring wells MW-2, MW-3, MW-7, MW-9, and MW-10 in October had concentrations that exceeded the NMWQCC standard.

3. Summary and Recommendations

3.1 Summary

The following summarizes the information and data presented in this report:

- Concentrations of BTEX, when detected above the laboratory reporting limit, did not exceed the NMWQCC standards.
- Chloride was detected in monitoring wells MW-2, MW-3, MW-7, MW-9, and MW-10 at concentrations that exceeded the NMWQCC standard.

3.2 Recommendations

Based on the results of the 2023 groundwater monitoring events and directive from NMOCD in May 2023, GHD recommends the following:

- Continue semi-annual groundwater monitoring for chloride in monitoring wells MW-1, MW-3, MW-6, MW-7, MW-9, and MW-10.
- Conduct annual groundwater monitoring for chloride in monitoring wells MW-2, MW-4, MW-5, MW-8, and MW-11.
- Discontinue groundwater monitoring for BTEX in all wells.
- Install one groundwater monitoring well (MW-12) up-gradient of monitoring well MW-10 to confirm chloride concentrations that have been detected in groundwater, the proposed well is shown on **Figure 6**.

4. Scope and Limitations

This report has been prepared by GHD for ET Gathering & Processing, LLC and may only be used and relied on by ET Gathering & Processing, LLC for the purpose agreed between GHD and ET Gathering & Processing, LLC.

GHD otherwise disclaims responsibility to any person other than ET Gathering & Processing, LLC arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

Table 1

**Summary of Groundwater Elevation Data
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Well Number	Date Measured	Top of Casing (TOC) Elevation	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-1	2/7/2013	3,413.64	74.28	59.82	3,353.82
	5/10/2013		74.28	59.36	3,354.28
	9/3/2013		74.28	59.91	3,353.73
	7/30/2014		74.28	59.19	3,354.45
	10/31/2014		74.28	59.13	3,354.51
	1/21/2015		74.28	58.99	3,354.65
	4/21/2015		74.28	58.96	3,354.68
	12/21/2015		74.28	59.04	3,354.60
	6/1/2016		74.28	58.95	3,354.69
	12/8/2016		74.28	58.93	3,354.71
	5/9/2017		74.28	58.85	3,354.79
	11/15/2017		74.28	58.95	3,354.69
	5/10/2018		74.28	58.95	3,354.69
	5/17/2018		74.28	59.00	3,354.64
	11/12/2018		74.28	58.76	3,354.88
	5/14/2019		74.28	59.22	3,354.42
	11/12/2019		74.28	Electronic Field Data Lost	
	1/16/2020		74.28	59.43	3,354.21
	3/23/2020		74.28	59.41	3,354.23
	9/23/2020		74.28	59.51	3,354.13
	3/30/2021		74.28	59.62	3,354.02
	10/7/2021		74.28	59.76	3,353.88
	4/13/2022		74.28	59.82	3,353.82
	11/8/2022		74.28	59.85	3,353.79
	4/27/2023		69.80	59.82	3,353.82
	10/17/2023		74.15	59.41	3354.23
MW-2	2/7/2013	3,412.88	74.18	59.10	3,353.78
	5/10/2013		74.18	58.20	3,354.68
	9/3/2013		74.18	58.21	3,354.67
	7/30/2014		74.18	58.02	3,354.86
	10/31/2014		74.18	57.91	3,354.97
	1/21/2015		74.18	57.75	3,355.13
	4/21/2015		74.18	57.76	3,355.12
	12/21/2015		74.18	57.84	3,355.04
	6/1/2016		74.18	57.79	3,355.09
	12/8/2016		74.18	57.78	3,355.10
	5/9/2017		74.18	57.71	3,355.17
	11/15/2017		74.18	57.75	3,355.13
	5/10/2018		74.18	57.75	3,355.13
	5/17/2018		74.18	57.77	3,355.11
	11/12/2018		74.18	57.97	3,354.91
	5/14/2019		74.18	57.97	3,354.91
	11/12/2019		74.18	Electronic Field Data Lost	
	1/16/2020		74.18	58.20	3,354.68
	3/23/2020		74.18	58.19	3,354.69
	9/23/2020		74.18	58.34	3,354.54
	3/30/2021		74.18	58.43	3,354.45
	10/7/2021		74.18	59.25	3,353.63
	4/13/2022		74.18	69.65	3,343.23
	11/8/2022		74.18	58.78	3,354.10
	4/27/2023		74.29	58.78	3,354.10
	10/17/2023		74.05	58.80	3354.08

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ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Well Number	Date Measured	Top of Casing (TOC) Elevation	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-3	2/7/2013	3,412.96	74.04	58.49	3,354.47
	5/10/2013		74.04	58.35	3,354.61
	9/3/2013		74.04	58.32	3,354.64
	7/30/2014		74.04	58.26	3,354.70
	10/31/2014		74.04	58.19	3,354.77
	1/21/2015		74.04	58.01	3,354.95
	4/21/2015		74.04	58.96	3,354.00
	12/21/2015		74.04	58.04	3,354.92
	6/1/2016		74.04	57.93	3,355.03
	12/8/2016		74.04	58.94	3,354.02
	5/9/2017		74.04	57.82	3,355.14
	11/15/2017		74.04	57.88	3,355.08
	5/10/2018		74.04	58.82	3,354.14
	5/17/2019		74.04	58.80	3,354.16
	11/12/2018		74.04	58.87	3,354.09
	5/14/2019		74.04	58.07	3,354.89
	11/12/2019		74.04	Electronic Field Data Lost	
	1/16/2020		74.04	58.28	3,354.68
	3/23/2020		74.04	58.29	3,354.67
	9/23/2020		74.04	58.43	3,354.53
	3/30/2021		74.04	58.52	3,354.44
	10/7/2021		74.04	58.73	3,354.23
	4/13/2022		74.04	58.74	3,354.22
	11/8/2022		74.04	58.83	3,354.13
	4/27/2023		74.31	58.84	3,354.12
	10/17/2023		75.50	58.83	3354.13
MW-4	9/3/2013	3,413.15	72.65	59.18	3,353.97
	7/30/2014		72.65	58.62	3,354.53
	10/31/2014		72.65	58.47	3,354.68
	1/21/2015		72.65	58.33	3,354.82
	4/21/2015		72.65	58.31	3,354.84
	12/21/2015		72.65	58.36	3,354.79
	6/1/2016		72.65	58.32	3,354.83
	12/8/2016		72.65	58.31	3,354.84
	5/9/2017		72.65	58.25	3,354.90
	11/15/2017		72.65	58.34	3,354.81
	5/10/2018		72.65	58.38	3,354.77
	5/17/2018		72.65	58.40	3,354.75
	11/12/2018		72.65	58.51	3,354.64
	5/14/2019		72.65	--	3,354.55
	11/12/2019		72.65	Electronic Field Data Lost	
	1/16/2020		72.65	58.82	3,354.33
	3/23/2020		72.65	58.81	3,354.34
	9/23/2020		72.65	58.95	3,354.20
	3/30/2021		72.65	65.04	3,348.11
	10/7/2021		72.65	58.61	3,354.54
	4/13/2022		72.65	59.24	3,353.91
	11/8/2022		72.65	59.26	3,353.89
	4/27/2023		72.57	59.29	3,353.86
	10/17/2023		72.40	59.26	3353.89

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Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Well Number	Date Measured	Top of Casing (TOC) Elevation	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-5	9/3/2013	3,413.53	73.32	59.23	3,354.30
	7/30/2014		73.32	59.14	3,354.39
	10/31/2014		73.32	59.12	3,354.41
	1/21/2015		73.32	58.93	3,354.60
	4/21/2015		73.32	58.97	3,354.56
	6/1/2016		73.32	58.90	3,354.63
	12/8/2016		73.32	58.87	3,354.66
	5/9/2017		73.32	58.82	3,354.71
	11/15/2017		73.32	58.90	3,354.63
	5/10/2018		73.32	58.92	3,354.61
	5/17/2018		73.32	58.92	3,354.61
	11/12/2018		73.32	58.92	3,354.61
	5/14/2019		73.32	59.23	3,354.30
	11/12/2019		73.32	Electronic Field Data Lost	
	1/16/2020		73.32	59.40	3,354.13
	3/23/2020		73.32	59.40	3,354.13
	9/23/2020		73.32	59.63	3,353.90
	3/30/2021		73.32	59.62	3,353.91
	10/7/2021		73.32	59.73	3,353.80
	4/13/2022		73.32	59.79	3,353.74
	11/8/2022		73.32	59.78	3,353.75
	4/27/2023		73.64	59.79	3,353.74
	10/17/2023		73.03	59.74	3353.79
MW-6	9/3/2013*	3,413.30	69.21	59.10	3,354.20
	7/30/2014		69.21	59.03	3,354.27
	10/31/2014		69.21	59.06	3,354.24
	1/21/2015		69.21	58.94	3,354.36
	4/21/2015		69.21	58.95	3,354.35
	12/21/2015		69.21	58.89	3,354.41
	6/1/2016		69.21	58.81	3,354.49
	12/8/2016		69.21	58.80	3,354.50
	5/9/2017		69.21	58.74	3,354.56
	11/15/2017		69.21	58.80	3,354.50
	5/10/2018		69.21	58.82	3,354.48
	5/17/2018		69.21	58.80	3,354.50
	11/12/2018		69.21	58.82	3,354.48
	5/14/2019		69.21	59.14	3,354.16
	11/12/2019		69.21	Electronic Field Data Lost	
	1/16/2020		69.21	59.30	3,354.00
	3/23/2020		69.21	59.28	3,354.02
	9/23/2020		69.21	59.40	3,353.90
	3/30/2021		69.21	59.55	3,353.75
	10/7/2021		69.21	58.64	3,354.66
	4/13/2022		69.21	59.66	3,353.64
	11/8/2022		69.21	59.64	3,353.66
	4/27/2023		66.75	59.64	3,353.66
	10/17/2023		68.63	59.55	3353.75

Table 1

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ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Well Number	Date Measured	Top of Casing (TOC) Elevation	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-7	9/3/2013	3,413.01	72.14	58.62	3,354.39
	7/30/2014		72.14	58.53	3,354.48
	10/31/2014		72.14	58.57	3,354.44
	1/21/2015		72.14	58.44	3,354.57
	4/21/2015		72.14	58.35	3,354.66
	12/21/2015		72.14	58.36	3,354.65
	6/1/2016		72.14	58.27	3,354.74
	12/8/2016		72.14	58.27	3,354.74
	5/9/2017		72.14	58.16	3,354.85
	11/15/2017		72.14	58.23	3,354.78
	5/10/2018		72.14	58.22	3,354.79
	5/17/2018		72.14	58.12	3,354.89
	11/12/2018		72.14	58.12	3,354.89
	5/14/2019		72.14	58.49	3,354.52
	11/12/2019		72.14	Electronic Field Data Lost	
	1/16/2020		72.14	58.69	3,354.32
	3/23/2020		72.14	58.66	3,354.35
	9/23/2020		72.14	58.79	3,354.22
	3/30/2021		72.14	58.88	3,354.13
	10/7/2021		72.14	59.02	3,353.99
	4/13/2022		72.14	59.07	3,353.94
	11/8/2022		72.14	59.10	3,353.91
	4/27/2023		71.25	59.11	3,353.90
	10/17/2023		71.13	59.06	3353.95
MW-8	1/21/2015	3,412.02	71.66	57.84	3,354.18
	4/21/2015		71.66	57.75	3,354.27
	12/21/2015		71.66	57.75	3,354.27
	6/1/2016		71.66	57.65	3,354.37
	12/8/2016		71.66	57.62	3,354.40
	5/9/2017		71.66	57.65	3,354.37
	11/15/2017		71.66	57.60	3,354.42
	5/10/2018		71.66	57.70	3,354.32
	5/17/2018		71.66	57.73	3,354.29
	11/12/2018		71.66	57.63	3,354.39
	5/14/2019		71.66	57.98	3,354.04
	11/12/2019		71.66	Electronic Field Data Lost	
	1/16/2020		71.66	58.41	3,353.61
	3/23/2020		71.66	58.33	3,353.69
	9/23/2020		71.66	58.45	3,353.57
	3/30/2021		71.66	58.58	3,353.44
	10/7/2021		71.66	58.47	3,353.55
	4/13/2022		71.66	58.47	3,353.55
	11/8/2022		71.66	58.41	3,353.61
	4/27/2023		69.62	58.40	3,353.62
	10/17/2023		69.54	58.32	3353.70

Table 1

**Summary of Groundwater Elevation Data
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Well Number	Date Measured	Top of Casing (TOC) Elevation	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-9	1/21/2015	3,412.38	71.34	58.21	3,354.17
	4/21/2015		71.34	58.10	3,354.28
	12/21/2015		71.34	58.10	3,354.28
	6/1/2016		71.34	58.02	3,354.36
	12/8/2016		71.34	58.00	3,354.38
	5/9/2017		71.34	58.00	3,354.38
	11/15/2017		71.34	58.08	3,354.30
	5/10/2018		71.34	58.10	3,354.28
	5/17/2018		71.34	58.10	3,354.28
	11/12/2018		71.34	58.05	3,354.33
	5/14/2019		71.34	58.45	3,353.93
	11/12/2019		71.34	Electronic Field Data Lost	
	1/16/2020		71.34	58.64	3,353.74
	3/23/2020		71.34	58.66	3,353.72
	9/23/2020		71.34	58.50	3,353.88
	3/30/2021		71.34	58.90	3,353.48
	10/7/2021		71.34	58.95	3,353.43
	4/13/2022		71.34	58.90	3,353.48
	11/8/2022		71.34	59.02	3,353.36
	4/27/2023		69.25	58.82	3,353.56
	10/17/2023		69.15	58.74	3353.64
MW-10	12/21/2015	3,411.86	70.32	57.24	3,354.62
	6/1/2016		70.32	57.15	3,354.71
	12/8/2016		70.32	57.10	3,354.76
	5/9/2017		70.32	57.01	3,354.85
	11/15/2017		70.32	57.03	3,354.83
	5/10/2018		70.32	57.06	3,354.80
	5/17/2018		70.32	57.09	3,354.77
	11/12/2018		70.32	57.00	3,354.86
	5/14/2019		70.32	57.32	3,354.54
	11/12/2019		70.32	Electronic Field Data Lost	
	1/16/2020		70.32	57.53	3,354.33
	3/23/2020		70.32	57.49	3,354.37
	9/23/2020		70.32	57.70	3,354.16
	3/30/2021		70.32	57.71	3,354.15
	10/7/2021		70.32	57.85	3,354.01
	4/3/2022		70.32	57.90	3,353.96
	11/8/2022		70.32	58.07	3,353.79
	4/27/2023		70.13	57.88	3,353.98
	10/17/2023		70.02	57.86	3354.00

Table 1

**Summary of Groundwater Elevation Data
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Well Number	Date Measured	Top of Casing (TOC) Elevation	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-11	12/21/2015	3,412.14	70.32	58.01	3,354.13
	6/1/2016		70.32	57.92	3,354.22
	12/8/2016		70.32	57.92	3,354.22
	5/9/2017		70.32	57.86	3,354.28
	11/15/2017		70.32	57.98	3,354.16
	5/10/2018		70.32	58.07	3,354.07
	5/17/2018		70.32	57.06	3,355.08
	11/12/2018		70.32	58.03	3,354.11
	5/14/2019		70.32	58.43	3353.71
	11/12/2019		70.32	Electronic Field Data Lost	
	1/16/2020		70.32	58.56	3,353.58
	3/23/2020		70.32	58.50	3,353.64
	9/23/2020		70.32	58.65	3,353.49
	3/30/2021		70.32	58.80	3,353.34
	10/7/2021		70.32	58.87	3,353.27
	4/13/2022		70.32	58.82	3,353.32
	11/8/2022		70.32	58.69	3,353.45
	4/27/2023		70.20	58.68	3,353.46
	10/17/2023		70.04	58.18	3353.96

Notes:

- 1) ft = feet.
- 2) AMSL = above mean sea level.
- 3) Light non-aqueous phase liquids have never been observed in the monitoring wells.

Table 2

**Summary of Groundwater Quality Field Parameters
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Date	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-1	7/30/2014	27.00	6.71	4.1	-128.5	4,435
	10/30/2014	No Parameters Collected				
	1/21/2015	8.20	7.76	28.9	-31.6	2,884
	4/21/2015	21.00	6.66	3.6	3.2	3,785
	12/21/2015	19.89	6.89	3.56	-90.7	3,846
	6/1/2016	20.4	6.76	1.71	-123.9	2,940
	12/9/2016	19.00	6.37	5.22	-113.7	2,559
	5/9/2017	19.39	6.93	2.05	-146.8	3,018
	11/15/2017	18.00	7.17	2.16	-45.3	4,070
	5/17/2018	18.87	6.73	--	-181	3,955
	11/12/2018	16.48	6.95	4.51	-119.9	4,801
	5/14/2019	17.39	6.3	4.25	-153.4	3,289
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.59	6.64	2.6	-200	3,303
	9/23/2020	19.90	7.17	3.01	-72.9	1,875
	3/30/2021	20.53	7.02	1.24	-98	1,670
	10/7/2021	20.46	7.19	1.43	-119.7	1,190
	4/13/2022	20.30	6.98	1.11	21.5	1,803
	11/8/2022	20.23	6.91	1.56	75.5	1,733
	4/27/2023	19.95	5.98	1.12	--	1,597
	10/17/2023	20.53	6.94	2.75	--	1,438
MW-2	7/31/2014	24.4	7.05	21.5	215	1,509
	10/30/2014	No Parameters Collected				
	1/21/2015	12.9	7.4	23.1	242.3	1,654
	4/21/2015	19.3	6.94	4.1	322.2	1,648
	12/21/2015	19.59	7.31	3.06	-41.4	1,956
	6/1/2016	20.1	6.93	1.93	37.4	1,650
	12/9/2016	18.61	6.97	1.76	-112.7	1,640
	5/9/2017	19.06	6.37	2.72	-58.5	1,676
	11/15/2017	17.54	7.39	2.99	107.6	1,978
	5/17/2018	18.51	6.97	--	-61.8	1,631
	11/12/2018	17.35	7.12	5.33	-103	1,709
	5/14/2019	17.6	6.66	4.97	-66.4	1,456
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.60	6.82	3.23	9.00	1,778
	9/23/2020	20.50	7.25	2.31	38.40	1,401
	10/7/2021	20.71	7.32	1.71	20.83	912
	11/8/2022	21.34	7.54	269.67	262.39	1612
	10/17/2023	20.10	7.25	3.50	--	1719
MW-3	7/31/2014	21	7.13	16.1	571	1,173
	10/30/2014	No Parameters Collected				
	1/21/2015	9.7	7.71	52.3	408.7	1,425
	4/21/2015	18.7	7.12	38.1	256.1	1,353
	12/21/2015	19.7	7.36	3.11	-55.3	1,468
	11/15/2017	17.81	7.55	2.44	117.7	1,599
	5/17/2018	No Parameters Collected				
	11/12/2018	15.65	7.34	4.88	-101.1	1,389
	11/12/2019	Electronic Field Data Lost				
	9/23/2020	21.81	7.35	2.76	136.8	1,259
	3/30/2021	20.17	7.24	1.08	247	1,137
	10/7/2021	20.61	7.38	1.97	133.3	861
	4/13/2022	19.50	7.26	2.28	188.5	1,332
	11/8/2022	19.99	7.27	7.04	256.3	1,861
	4/27/2023	21.60	7.19	4.14	--	1,554
	10/17/2023	19.67	7.23	6.86	--	1,735

Table 2

**Summary of Groundwater Quality Field Parameters
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Date	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-4	7/30/2014	23.60	6.97+C56:G6	34.6	568.3	1,239
	10/30/2014	No Parameters Collected				
	1/21/2015	15.00	7.31	26.6	525.3	1,393
	4/21/2015	19.50	6.97	18	463.2	1,420
	12/21/2015	19.71	7	3.01	-47.3	1,620
	11/15/2017	17.74	7.25	2.56	124.5	1,581
	5/17/2018	No Parameters Collected				
	11/12/2018	16.91	7.13	3.13	-84.1	1,358
	11/12/2019	Electronic Field Data Lost				
	9/23/2020	20.66	7.14	0.88	24.5	1,163
	10/7/2021	20.52	7.27	0.7	-10.5	795
	11/8/2022	20.31	7.02	1.7	225.6	1,398
	10/17/2023	22.00	7.00	2.5	--	1,358
MW-5	7/30/2014	22.7	6.86	10.1	55.7	1,213
	10/30/2014	No Parameters Collected				
	1/21/2015	15.40	7.31	22.8	510.3	1,188
	4/21/2015	19.90	6.79	6.3	283.2	1,323
	11/15/2017	17.86	7.11	1.29	-50.3	1,551
	5/17/2018	No Parameters Collected				
	11/12/2018	17.05	6.95	3.71	-110	1,318
	11/12/2019	Electronic Field Data Lost				
	9/23/2020	20.50	7.00	0.87	-111.7	1,145
	10/7/2021	20.49	7.18	1.06	-96.3	746
	11/8/2022	20.94	6.85	1.03	132.5	1,323
	10/17/2023	20.96	6.79	2.59	--	1,274
MW-6	7/30/2014	24.6	6.67	2.7	-145.4	4,320
	10/30/2014	No Parameters Collected				
	1/21/2015	7.3	8.11	50.3	108.9	3,479
	4/21/2015	20.8	6.6	2.3	-30.9	4,923
	12/21/2015	19.56	6.99	3.14	-106.2	6,450
	6/2/2016	20	6.39	1.25	-93.8	5,290
	12/9/2016	18.9	6.99	1.88	-170	4,387
	5/9/2017	19.08	7.92	4.5	-73.8	4,289
	11/15/2017	17.72	7.38	1.01	-73.1	4,347
	5/17/2018	18.61	6.19	--	-145.2	3,401
	11/12/2018	16.55	6.92	3.03	-88.1	2,310
	5/14/2019	16.79	6.47	5.1	-117.7	1,760
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.51	6.72	2.06	-77	2,117
	7/28/2020	21.7	7.71	4.23	-43.5	1,560
	9/23/2020	20.54	7.08	1.08	-62.7	1,758
	3/30/2021	20.08	7.04	1.12	-74.4	1,474
	10/7/2021	20.44	4.2	1.09	-96.5	968
	4/13/2022	19.5	7.1	1.52	80	1,448
	11/8/2022	20.72	7.44	1.43	177.9	1,660
	4/27/2023	36.42	7.58	5.19	--	1,551
	10/17/2023	23.37	7.24	3.90	--	1,290

Table 2

**Summary of Groundwater Quality Field Parameters
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Date	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-7	7/30/2014	24.1	7.01	6.5	-106.7	1,412
	10/30/2014	No Parameters Collected				
	1/21/2015	7.2	7.91	43.8	110.7	2,717
	4/21/2015	21.1	6.95	10	269.6	1,938
	12/21/2015	19.61	7.07	2.57	-108.4	1,919
	6/2/2016	20.2	7.08	1.47	-115.7	1,580
	12/9/2016	19.02	7.17	3.11	74.8	1,499
	5/9/2017	19.27	6.91	2.24	-146.9	1,400
	11/15/2017	17.64	7.49	1.67	-29	1,759
	5/17/2018	18.51	7.12	--	-100.2	1,500
	11/12/2018	16.85	7.15	3.73	-70	1,568
	5/14/2019	18.06	6.54	2.98	-98.9	1,350
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.52	6.85	2.41	-53.4	1,622
	9/23/2020	20.8	7.19	1.28	-36.9	1,395
	3/30/2021	20.24	7.15	1.67	-59	1,340
	10/7/2021	20.5	7.29	1.72	-81.9	1,012
	4/13/2022	19.59	7.17	2.67	64.6	1,591
	11/8/2022	20.48	6.95	1.86	141.25	2,042
	4/27/2023	20.66	6.98	2.17	--	1,974
	10/17/2023	21.97	7.15	1.93	--	2,109
MW-8	1/21/2015	8.2	8.14	40.2	316.8	1202
	4/21/2015	20.1	6.93	10.6	517.3	1,942
	12/21/2015	19.14	7.09	3.68	-55.7	2,144
	6/2/2016	19.8	7.08	1.43	129.5	1,820
	12/9/2016	18.54	7.22	8.28	463.9	1,889
	5/9/2017	18.65	6.92	6.38	335.3	1,938
	11/15/2017	17.53	7.5	1.89	20.0	2,348
	5/17/2018	18.43	6.97	--	-76.8	1,950
	11/12/2018	15.88	7.21	5.72	-73.1	2,081
	5/14/2019	17.05	6.63	9.46	-53.1	816
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.43	6.93	3.5	-21	1,749
	7/28/2020	20.7	8.18	10.16	-62.7	1,030
	9/23/2020	21.68	7.48	4.2	486.3	1,477
	3/30/2021	20.22	7.22	1.27	-93.8	1,285
	10/7/2021	20.44	7.32	1.26	-95.9	926
	4/13/2022	19.43	7.22	2.39	69.6	1,380
	11/8/2022	20.13	7.00	2.76	154.0	1,535
	4/27/2023	20.13	7.00	2.76	154.0	1,535
	10/17/2023	21.70	7.09	4.41	--	1,500

Table 2

**Summary of Groundwater Quality Field Parameters
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Date	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-9	1/21/2015	6	8.33	60.9	201.7	1,180
	4/21/2015	19.8	6.89	6.5	275.9	1,298
	12/21/2015	19.31	7.09	3.04	-50.1	1,395
	6/2/2016	19.9	6.93	1.23	-115	1,180
	12/9/2016	18.72	7.15	7.87	-122.3	1,145
	5/9/2017	18.88	6.68	3.76	-139.2	1,138
	11/15/2017	17.68	7.16	1.41	-77.6	1,464
	5/17/2018	18.07	6.72	--	-208.2	1,201
	11/12/2018	16.81	7.03	2.95	-144.2	1,220
	5/14/2019	17.18	6.59	3.84	-165.9	1,032
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.14	6.85	2.13	-200.0	1,668
	7/28/2020	21.4	7.67	10.2	-87.4	1,670
	9/23/2020	20.53	7.43	1.44	-109.0	1,564
	3/30/2021	20.21	7	1.02	-124.3	1,917
	10/7/2021	21.25	7.12	1.12	-137.9	1,378
	4/13/2022	20.15	6.87	1.02	72.1	2,322
	11/8/2022	20.22	6.55	1.74	112.2	2,576
MW-10	4/27/2023	20.94	6.75	1.54	--	2,556
	10/17/2023	20.93	6.78	2.43	--	2,641
	12/21/2015	19.2	7.49	7.07	-9.4	3,616
	6/2/2016	20.1	7.23	3.74	97.2	3,250
	12/9/2016	18.64	7.23	3.76	419.5	3,183
	5/9/2017	18.74	5.98	2.97	-16.7	3,535
	11/15/2017	17.49	7.3	2.06	73.5	4,692
	5/17/2018	18.81	7.0	-	-50.1	3,821
	11/12/2018	16.82	7.33	3.7	-74	4,567
	5/14/2019	17.32	6.7	5.96	-60.6	3,719
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.22	6.91	3.49	5.4	4,681
	9/23/2020	20.67	7.19	2.75	135.2	4,636
	3/30/2021	20.19	7.11	2.34	39.3	4,505
	10/7/2021	20.35	7.2	2.75	44.4	3,467
	4/13/2022	19.44	7.03	2.34	186.1	5,650
	11/8/2022	19.69	6.94	3.53	264.2	6,443
	4/27/2023	20.80	6.95	2.56	--	6,050
	10/17/2023	19.57	6.91	3.28	--	6,150

Table 2

**Summary of Groundwater Quality Field Parameters
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Date	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Conductivity (mS/cm)
MW-11	12/21/2015	18.44	7.41	6.97	43.2	1,285
	6/2/2016	19.8	7.36	6.51	385.7	1,120
	12/9/2016	18.56	7.34	6.85	436.6	1,086
	5/9/2017	18.82	7.09	4.94	-60.8	1,121
	11/15/2017	17.34	7.42	3.89	7.5	1,385
	5/17/2018	18.04	7.16	--	-60.2	1,204
	11/12/2018	15.99	7.45	7.81	-76.2	1,238
	5/14/2019	16.63	6.9	5.7	-58.4	812
	11/12/2019	Electronic Field Data Lost				
	3/23/2020	19.94	6.99	2.64	-7.0	1,247
	7/28/2020	20.90	8.19	5.97	-41.9	1,000
	9/23/2020	20.44	7.30	1.42	-79.5	1,049
	3/30/2021	20.17	7.25	1.63	-58.2	948
	10/7/2021	20.22	7.44	1.99	-83.4	666
	4/13/2022	19.37	7.31	2.23	96.2	1,028
	11/8/2022	20.04	7.07	1.97	162	1,075
	4/27/2023	22.25	7.30	1.66	--	1,059

Notes:

- 1) °C = degrees Celsius.
- 2) mg/L = milligrams per liter.
- 3) mV = millivolts.
- 4) mS/cm = microsiemens per centimeter.

Table 3

Summary of Groundwater Analytical Results
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQCC Groundwater Quality Standards		0.005	1.0	0.7	0.62	250
MW-1	2/7/2013*	0.516	<0.00100	0.0688	0.0291	1,200
	5/10/2013*	0.551	0.0915	0.146	0.114	901
	9/3/2013*	0.00500	--	0.0172	0.0366	561
	2/28/2014*	0.395	<0.00200	0.0850	0.0350	1,220
	7/30/2014	<0.00100	<0.00200	<0.00100	0.0178	1,190
	10/31/2014	0.00500	--	0.0671	<0.00100	871
	1/21/2015	0.137	<0.0500	0.111	<0.05000	618
	4/21/2015	0.104	<0.00100	0.0324	<0.00100	845
	12/21/2015	0.00500	--	0.011	0.00210	890
	6/1/2016	0.021	<0.00100	0.00730	<0.00150	850
	12/9/2016	0.00300	<0.00100	0.00200	<0.00150	600
	5/9/2017	0.00500	--	0.00480	<0.00150	650
	11/15/2017	0.00960	<0.00100	0.00280	<0.00150	700
	5/10/2018	--	--	--	--	490
	5/17/2018	0.00500	<0.00100	0.00520	<0.00150	--
	11/12/2018	0.00300	<0.00100	0.00160	<0.00150	1,400
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	1,200
	11/12/2019	0.00500	--	<0.00100	<0.00200	860
	3/23/2020	0.00180	<0.00100	<0.00100	<0.00150	710
	9/23/2020	0.00220	<0.00100	<0.00100	<0.00150	410
	3/30/2021	0.00220	<0.00100	<0.00100	<0.00150	300
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	290
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	230
	11/8/2022	0.00140	<0.00100	<0.00100	<0.00150	210
	4/27/2023	0.0022	<0.0010	<0.0010	<0.0015	190
	10/17/2023	--	--	--	--	215
MW-2	2/7/2013*	<0.00100	<0.00200	<0.00100	<0.00200	142
	5/10/2013*	<0.00100	<0.00200	<0.00100	<0.00200	138
	9/3/2013*	0.00500	<0.00100	<0.00100	<0.00200	139
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	134
	7/31/2014	<0.00100	<0.00200	<0.00100	<0.00100	144
	10/31/2014	0.00500	<0.00100	<0.00100	<0.00100	168
	1/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	167
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	159
	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	170
	6/1/2016	<0.00100	<0.00100	<0.00100	<0.00150	180
	12/9/2016	<0.00100	<0.00100	<0.00100	<0.00150	190
	5/9/2017	<0.00100	<0.00100	<0.00100	<0.00150	190
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	170
	5/10/2018	--	--	--	--	67.0
	5/17/2018	<0.00100	<0.00100	<0.00100	<0.00150	--
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	190
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	180
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	170
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	180
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	160
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	170
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	200
	10/17/2023	--	--	--	--	282

Table 3

Summary of Groundwater Analytical Results
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQCC Groundwater Quality Standards		0.005	1.0	0.7	0.62	250
MW-3	2/7/2013*	<0.00100	<0.00200	<0.00100	<0.00200	102
	5/10/2013*	<0.00100	<0.00200	<0.00100	<0.00200	91.3
	9/3/2013*	<0.00100	<0.00100	<0.00100	<0.00200	75.9
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	95.4
	7/31/2014	<0.00100	<0.00200	<0.00100	<0.00100	89.9
	10/31/2014	0.00460	<0.00100	<0.00100	<0.00100	114
	1/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	111
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	114
	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	110
	6/1/2016	Not Sampled				
	12/9/2016	Not Sampled				
	5/9/2017	Not Sampled				
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	130
	5/17/2018	Not Sampled				
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	130
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	130
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	150
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	160
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	180
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	200
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	280
	4/27/2023	<0.0010	<0.0010	<0.0010	<0.0015	260
	10/17/2023	--	--	--	--	374
MW-4	9/3/2013*	<0.00100	<0.00100	<0.00100	<0.00100	86.9
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	89.7
	7/30/2014	<0.00100	<0.00200	<0.00100	<0.00100	98.8
	10/31/2014	<0.00100	<0.00100	<0.00100	<0.00100	106
	1/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	131
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	120
	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	120
	6/1/2016	Not Sampled				
	12/9/2016	Not Sampled				
	5/9/2017	Not Sampled				
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	98
	5/17/2018	Not Sampled				
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	100
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	89
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	100
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	140
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	140
	10/17/2023	--	--	--	--	164

Table 3

**Summary of Groundwater Analytical Results
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQCC Groundwater Quality Standards		0.005	1.0	0.7	0.62	250
MW-5	9/3/2013*	0.00200	<0.00100	<0.00100	<0.00100	85.7
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	87.1
	7/30/2014	<0.00100	<0.00200	<0.00100	0.00410	73.4
	10/31/2014	0.00440	<0.00100	<0.00100	0.0145	77.1
	1/21/2015	<0.00100	<0.00100	<0.00100	0.00280	69.9
	4/21/2015	<0.00100	<0.00100	<0.00100	0.00970	73.3
	12/21/2015	Not Sampled				
	6/1/2016	Not Sampled				
	12/9/2016	Not Sampled				
	5/9/2017	Not Sampled				
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	73
	5/17/2018	Not Sampled				
	11/12/2018	0.00170	<0.00100	<0.00100	<0.00150	64
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	78
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	86
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	86
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	110
	10/17/2023	--	--	--	--	165
MW-6	9/3/2013*	0.469	<0.00100	0.00613	0.03420	906
	2/28/2014*	0.851	<0.00100	0.0185	0.05900	1,290
	7/30/2014	<0.00100	<0.00200	0.00965	0.01030	1,010
	10/31/2014	0.647	<0.05000	<0.05000	0.36800	1,420
	1/21/2015	0.440	<0.05000	<0.05000	<0.05000	429
	4/21/2015	0.790	<0.05000	<0.05000	<0.05000	1,190
	12/21/2015	0.200	<0.00100	0.00220	0.00340	1,700
	6/2/2016	0.0990	<0.00100	0.00260	0.00390	1,500
	12/9/2016	0.0160	<0.00100	0.00130	0.00150	1,400
	5/9/2017	0.0120	<0.00100	0.00140	0.00160	1,100
	11/15/2017	0.00270	<0.00100	<0.00100	<0.00150	1,200
	5/10/2018	--	--	--	--	560
	5/17/2018	0.00260	<0.00100	0.00170	<0.00150	--
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	390
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	410
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	380
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	360
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	250
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	270
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	210
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	180
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	180
	4/27/2023	<0.0010	<0.0010	<0.0010	<0.0015	150
	10/17/2023	--	--	--	--	156

Table 3

Summary of Groundwater Analytical Results
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQCC Groundwater Quality Standards		0.005	1.0	0.7	0.62	250
MW-7	9/3/2013*	0.0842	<0.00100	<0.00100	<0.00200	91.0
	2/28/2014*	0.0606	<0.00200	0.00149	<0.00100	88.3
	7/30/2014	<0.00100	<0.00200	<0.00100	<0.00100	70.6
	10/31/2014	0.0351	<0.00100	0.00290	0.00660	72.2
	1/21/2015	0.0169	<0.00100	<0.00100	<0.00100	46.6
	4/21/2015	0.0123	<0.00100	<0.00100	<0.00100	<25.0
	12/21/2015	0.0082	<0.00100	<0.00100	<0.00150	110
	6/2/2016	0.0110	<0.00100	<0.00100	<0.00150	99.0
	12/9/2016	0.00310	<0.00100	<0.00100	<0.00150	94.0
	5/9/2017	0.00780	<0.00100	<0.00100	<0.00150	88.0
	11/15/2017	0.00150	<0.00100	<0.00100	<0.00150	96.0
	5/10/2018	--	--	--	--	32.0
	5/17/2018	<0.00100	<0.00100	<0.00100	<0.00150	--
	11/12/2018	0.00110	<0.00100	<0.00100	<0.00150	150
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	170
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	130
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	190
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	180
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	200
	12/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	230
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	280
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	370
	4/27/2023	0.00056	<0.0010	<0.0010	<0.0015	350
	10/17/2023	--	--	--	--	482
MW-8	1/21/2015	<0.00100	<0.00100	<0.00100	0.0012	362
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	184
	12/22/2015	0.0220	<0.00100	0.00250	<0.00150	190
	6/2/2016	0.0510	<0.00100	0.00600	<0.00150	170
	12/9/2016	0.0110	<0.00100	0.00320	<0.00150	190
	5/9/2017	0.0580	<0.00100	0.00550	<0.00150	180
	11/15/2017	0.0210	<0.00100	0.00290	<0.00150	180
	5/10/2018	--	--	--	--	98.0
	5/17/2018	0.00110	<0.00100	<0.00100	<0.00150	--
	11/12/2018	0.00110	<0.00100	<0.00100	<0.00150	160
	5/14/2019	0.00150	<0.00100	<0.00100	<0.00150	130
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	100
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	100
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	100
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	110
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	130
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	130
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	150
	4/27/2023	<0.0010	<0.0010	<0.0010	<0.0015	130
	10/17/2023	--	--	--	--	159

Table 3

**Summary of Groundwater Analytical Results
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQCC Groundwater Quality Standards		0.005	1.0	0.7	0.62	250
MW-9	1/21/2015	0.0240	<0.00100	<0.00100	0.0151	53.9
	4/21/2015	0.0305	<0.00100	<0.00100	0.0340	53.4
	12/22/2015	0.0190	<0.00100	<0.00100	0.0180	57.0
	6/2/2016	0.0510	<0.00100	<0.00100	0.0250	43.0
	12/9/2016	0.0320	<0.00100	<0.00100	0.0140	43.0
	5/9/2017	0.0780	<0.00100	<0.00100	0.0400	42.0
	11/15/2017	0.0290	<0.00100	<0.00100	0.0160	35.0
	5/10/2018	--	--	--	--	33.0
	5/17/2018	0.0200	<0.00100	<0.00100	0.00170	--
	11/12/2018	0.00760	<0.00100	<0.00100	<0.00150	41.0
	5/14/2019	0.00850	<0.00100	<0.00100	<0.00150	80.0
	11/12/2019	0.00250	<0.00100	<0.00100	0.0190	220
	3/23/2020	0.00240	<0.00100	<0.00100	0.00520	280
	9/23/2020	0.00150	<0.00100	<0.00100	<0.00150	350
	3/30/2021	<0.00100	<0.00100	<0.00100	0.00160	450
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	510
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	710
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	620
	4/27/2023	0.00032	<0.0010	0.00025	<0.0015	590
	10/17/2023	--	--	--	--	627
MW-10	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	570
	6/2/2016	<0.00100	<0.00100	<0.00100	<0.00150	500
	12/9/2016	<0.00100	<0.00100	<0.00100	<0.00150	580
	5/9/2017	<0.00100	<0.00100	<0.00100	<0.00150	640
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	520
	5/10/2018	--	--	--	--	730
	5/17/2018	<0.00100	<0.00100	<0.00100	<0.00150	--
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	770
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	810
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	930
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	1,100
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	1,300
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	1,300
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	1,600
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	1,900
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	1,800
	4/27/2023	<0.0010	<0.0010	<0.0010	<0.0015	1,800
	10/17/2023	--	--	--	--	2,050

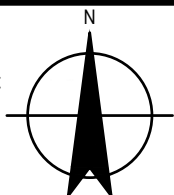
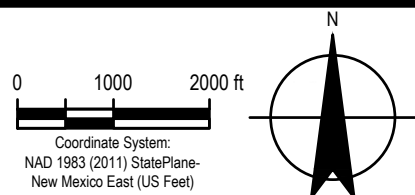
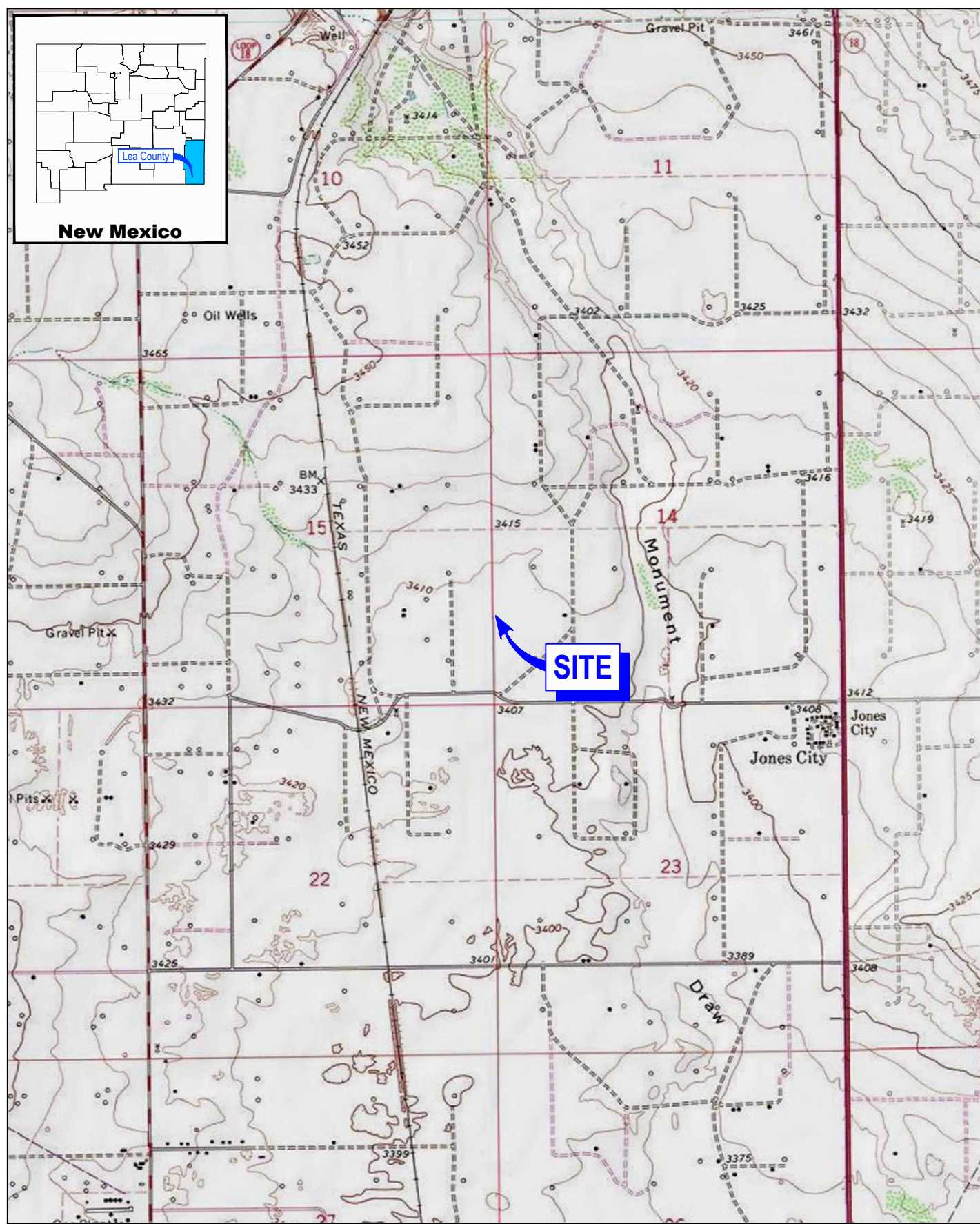
Table 3

**Summary of Groundwater Analytical Results
ET Gathering Processing, LLC
A-7 Bettis Pipeline
Lea County, New Mexico
NMOCD Nos. 1RP 9 5 2186 and 1RP 1540**

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQCC Groundwater Quality Standards		0.005	1.0	0.7	0.62	250
MW-11	12/21/2015	0.00130	<0.00100	<0.00100	<0.00150	55.0
	6/2/2016	<0.00100	<0.00100	<0.00100	<0.00150	46.0
	12/9/2016	<0.00100	<0.00100	<0.00100	<0.00150	44.0
	5/9/2017	0.00230	<0.00100	<0.00100	<0.00150	56.0
	11/15/2017	0.0130	<0.00100	<0.00100	0.00180	35.0
	5/10/2018	--	--	--	--	44.0
	5/17/2018	0.00160	<0.00100	<0.00100	<0.00150	--
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	42.0
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	43.0
	11/12/2019	0.00100	<0.00100	<0.00100	<0.00200	33.0
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	44.0
	9/23/2020	0.00140	<0.00100	<0.00100	<0.00150	43.0
	3/30/2021	0.00150	<0.00100	<0.00100	<0.00150	52.0
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	56.0
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	62.0
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	60.0
	4/27/2023	0.0016	<0.0010	<0.0010	<0.0015	61
	10/17/2023	--	--	--	--	65.7

Notes:

- 1) Analytical results are presented in milligrams per liter (mg/L).
- 2) NMWQCC = New Mexico Water Quality Control Commission.
- 3) TDS = total dissolved solids.
- 4) < - Analyte was not detected at or above the laboratory reported detection limit.
- 5) -- = not analyzed.
- 6) Bolded/shaded results exceed their respective NMWQCC standards.



**ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
A-7 BETTIS
NMOCD 1RP-1540**

Project No. **12603932**
Date **March 2024**

SITE LOCATION MAP

FIGURE 1



LEGEND

- MONITORING WELL LOCATION
- RELEASE POINT
- SUBSURFACE PIPELINE
- EXCAVATION LIMITS

0 30 60 ft

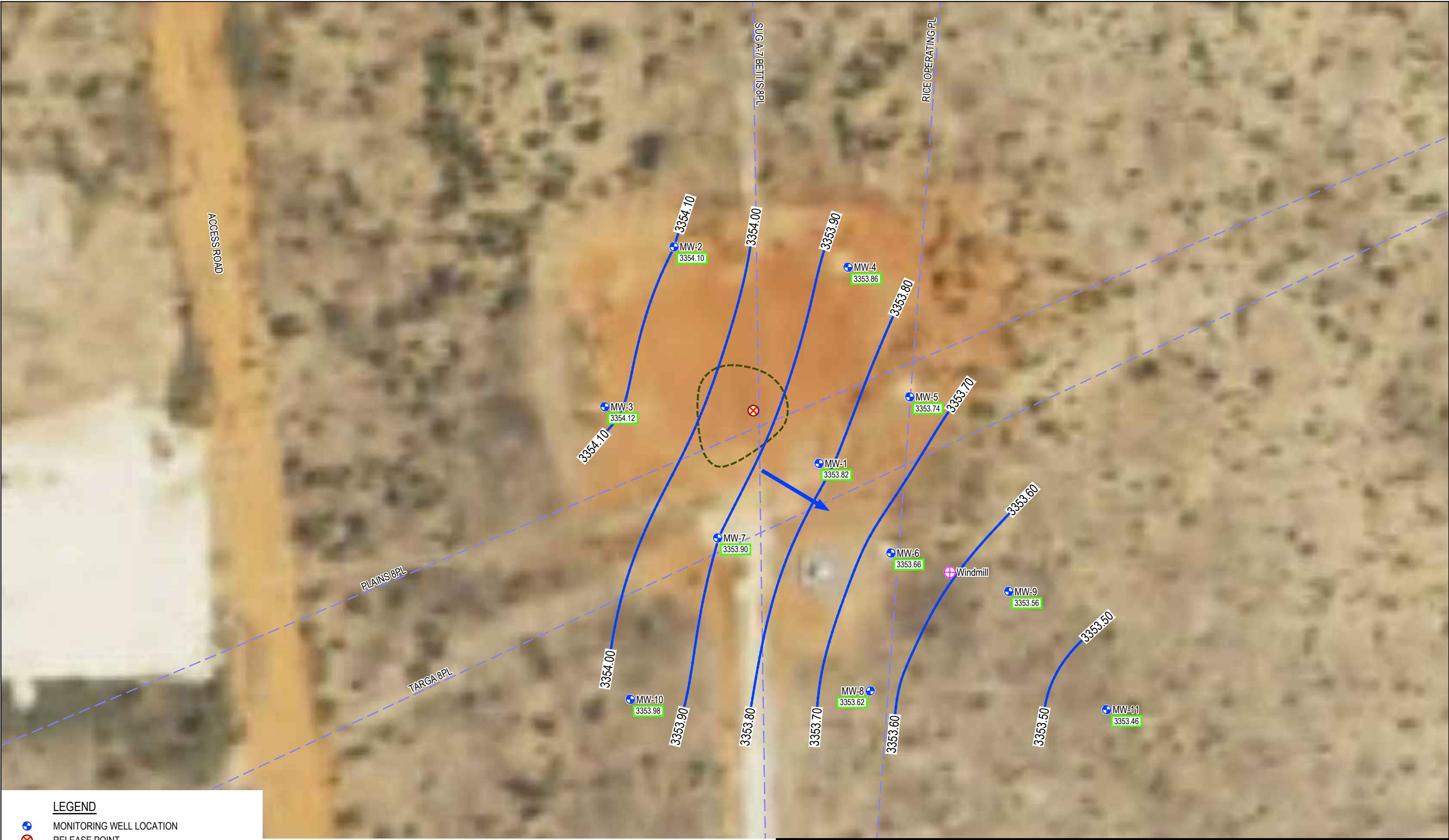
Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
A-7 BETTIS
NMOC 1RP-1540

SITE DETAILS MAP

Project No. 12603932
Date March 2024

FIGURE 2



LEGEND

- MONITORING WELL LOCATION
- RELEASE POINT
- SUBSURFACE PIPELINE
- EXCAVATION LIMITS
- GROUNDWATER ELEVATION CONTOUR
(INTERVAL = 0.1 FT)
- GROUNDWATER ELEVATION (FT AMSL)
- DIRECTION OF GROUNDWATER FLOW

0 30 60 ft

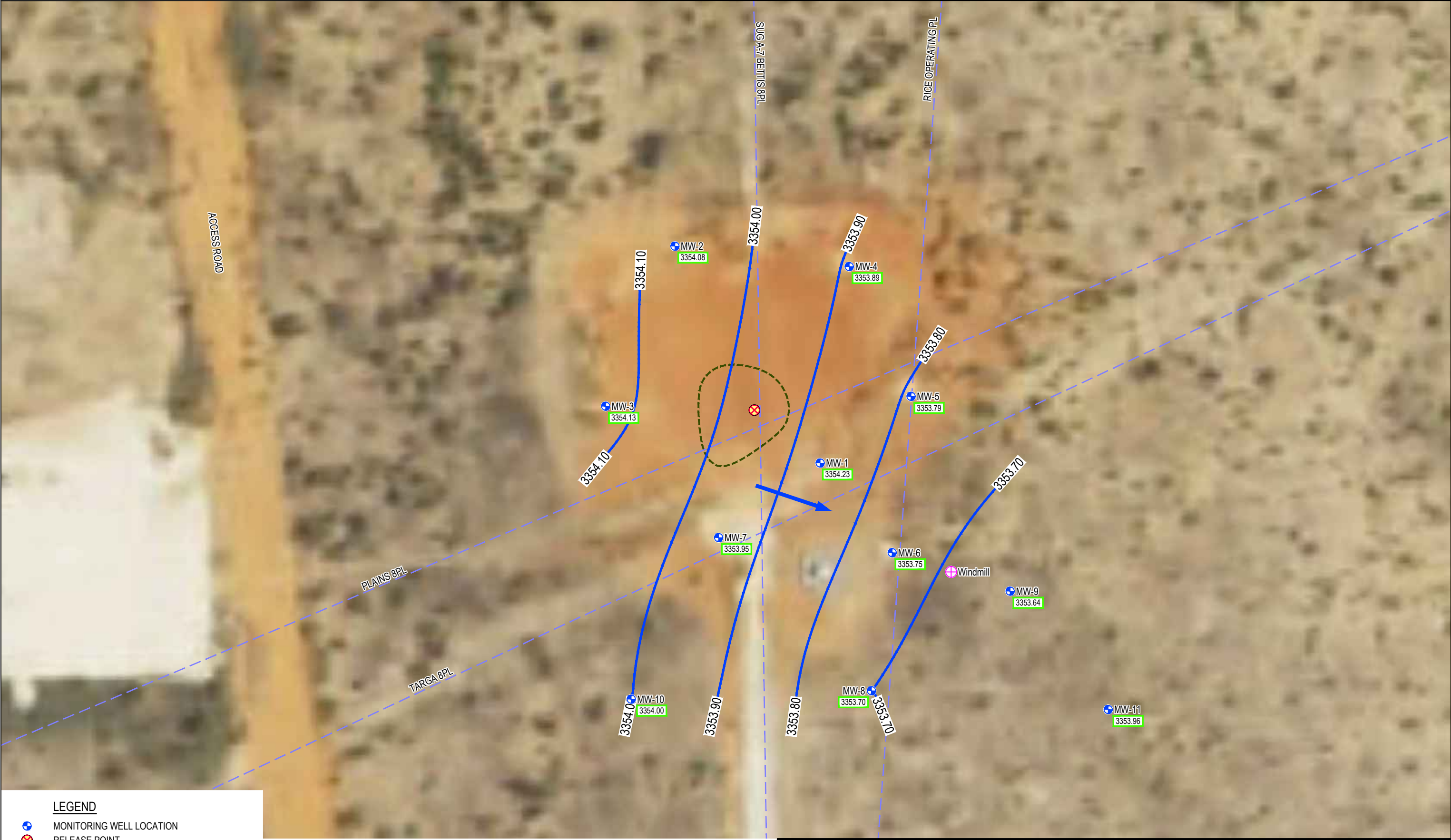
Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
A-7 BETTIS
NMOCD 1RP-1540

**POTENTIOMETRIC SURFACE MAP
(APRIL 2023)**

Project No. 12603932
Date March 2024

FIGURE 3



LEGEND

MONITORING WELL LOCATION

RELEASE POINT

SUBSURFACE PIPELINE

EXCAVATION LIMITS

GROUNDWATER ELEVATION CONTOUR
(INTERVAL = 0.1 FT)

GROUNDWATER ELEVATION (FT AMSL)

DIRECTION OF GROUNDWATER FLOW

NOTE:

1. MW-1, AND MW-11 WERE NOT USED IN CONTOURING.

03060

ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N



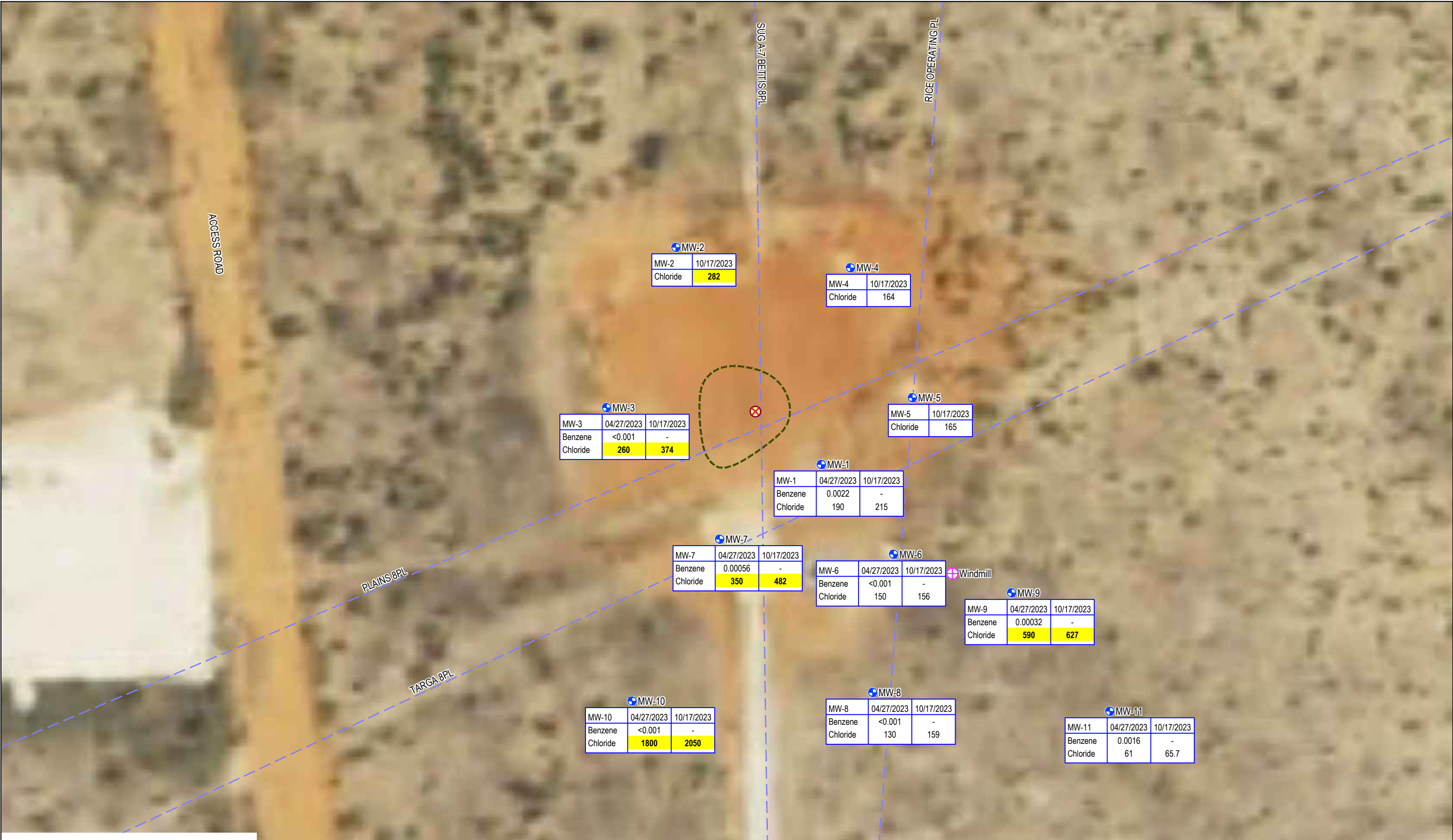
ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
A-7 BETTIS
NMOCD 1RP-1540

POTENTIOMETRIC SURFACE MAP
(OCTOBER 2023)

Project No. 12603932
Date March 2024

FIGURE 4

Data Source: NAIP Imagery, New Mexico 2014
Lat/Long: 32.47536° North, 103.14215° West



LEGEND

- MONITORING WELL LOCATION
- RELEASE POINT
- SUBSURFACE PIPELINE
- EXCAVATION LIMITS
- NOT ANALYZED

NOTES:

- GROUNDWATER CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
- YELLOW SHADED CELLS INDICATE EXCEEDANCE OF THE NMWQCC STANDARD.

0 30 60 ft

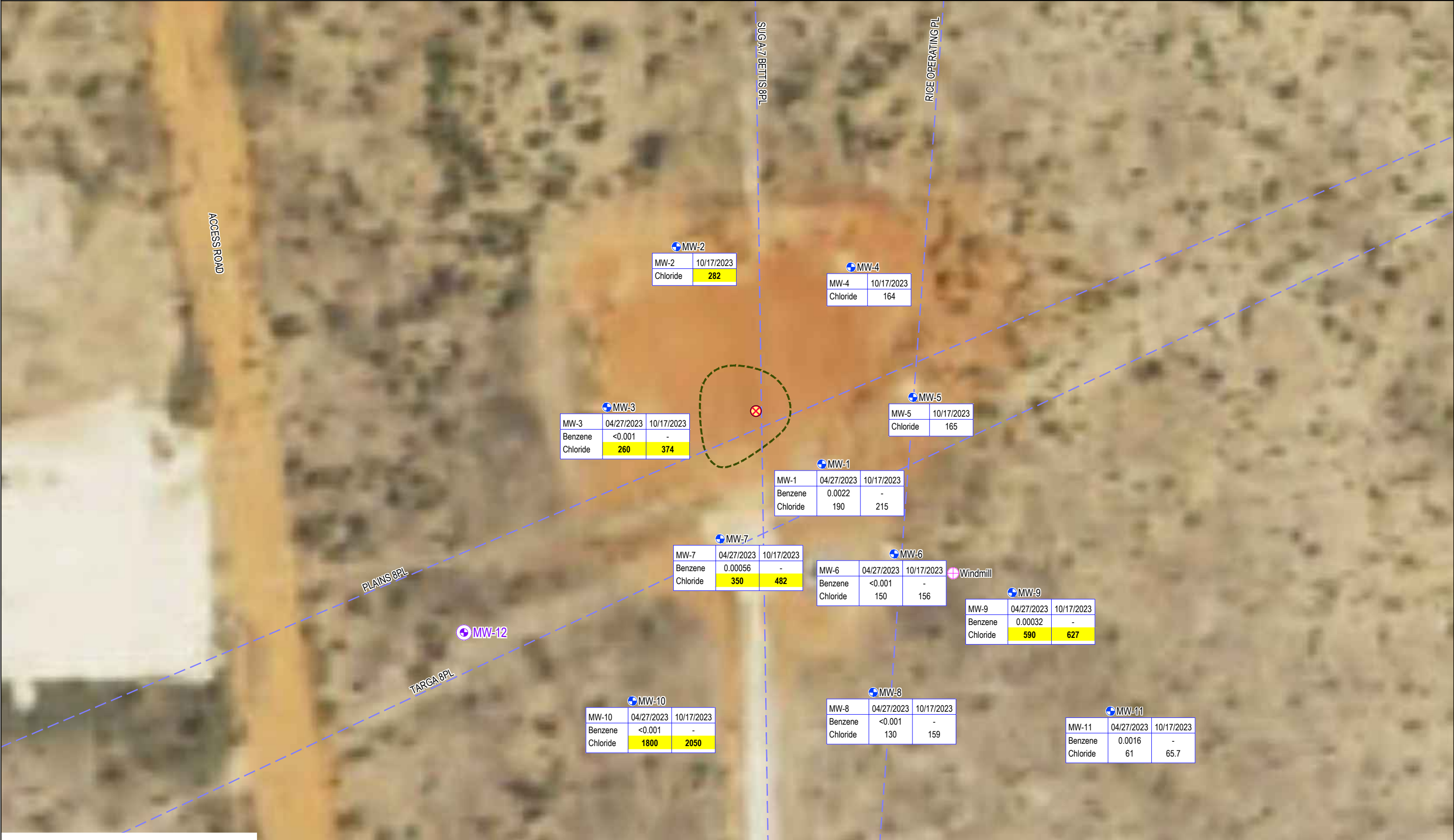
Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
A-7 BETTIS
NMOCD 1RP-1540

**COC CONCENTRATIONS
IN GROUNDWATER (2023)**

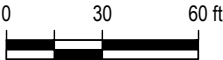
Project No. 12603932
Date March 2024

FIGURE 5

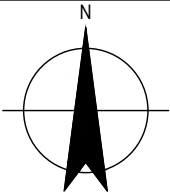


LEGEND

- PROPOSED MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- RELEASE POINT
- SUBSURFACE PIPELINE
- EXCAVATION LIMITS



Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)



ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
A-7 BETTIS
NMOCD 1RP-1540

PROPOSED MONITORING WELL
LOCATION MAP

Project No. 12603932
Date March 2024

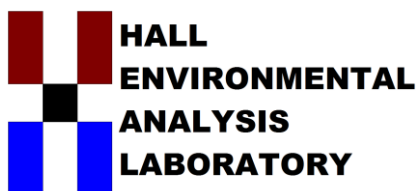
FIGURE 6

Data Source: NAIP Imagery, New Mexico 2014
Lat/Long: 32.47536° North, 103.14215° West

Appendices

Appendix A

Laboratory Analytical Reports



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

May 09, 2023

Blair Owen

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: A 7 Bettis

OrderNo.: 2304C68

Dear Blair Owen:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/28/2023 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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-3

Project: A 7 Bettis

Collection Date: 4/27/2023 11:45:00 AM

Lab ID: 2304C68-001

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	260	50	*	mg/L	100	5/2/2023 6:35:52 PM	R96479
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 4:03:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 4:03:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 4:03:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 24

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2304C68
Date Reported: 5/9/2023

CLIENT: GHD Client Sample ID: MW-3
Project: A 7 Bettis Collection Date: 4/27/2023 11:45:00 AM
Lab ID: 2304C68-001 Matrix: AQUEOUS Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 4:03:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 4:03:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 4:03:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 4:03:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	5/6/2023 4:03:00 AM	R96575
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2023 4:03:00 AM	R96575
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/6/2023 4:03:00 AM	R96575
Surr: Toluene-d8	94.5	70-130		%Rec	1	5/6/2023 4:03:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-6

Project: A 7 Bettis

Collection Date: 4/27/2023 3:10:00 PM

Lab ID: 2304C68-002

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	150	50		mg/L	100	5/2/2023 7:00:40 PM	R96479
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 4:27:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 4:27:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 4:27:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
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2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575

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

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	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-6

Project: A 7 Bettis

Collection Date: 4/27/2023 3:10:00 PM

Lab ID: 2304C68-002

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 4:27:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 4:27:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 4:27:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 4:27:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	5/6/2023 4:27:00 AM	R96575
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2023 4:27:00 AM	R96575
Surr: Dibromofluoromethane	100	70-130		%Rec	1	5/6/2023 4:27:00 AM	R96575
Surr: Toluene-d8	94.6	70-130		%Rec	1	5/6/2023 4:27:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 4 of 24

Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-1

Project: A 7 Bettis

Collection Date: 4/27/2023 11:10:00 AM

Lab ID: 2304C68-003

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	190	50		mg/L	100	5/2/2023 7:50:18 PM	R96479
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	2.2	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1-Methylnaphthalene	16	4.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 4:51:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 4:51:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 4:51:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-1

Project: A 7 Bettis

Collection Date: 4/27/2023 11:10:00 AM

Lab ID: 2304C68-003

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 4:51:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 4:51:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 4:51:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 4:51:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	115	70-130		%Rec	1	5/6/2023 4:51:00 AM	R96575
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/6/2023 4:51:00 AM	R96575
Surr: Dibromofluoromethane	100	70-130		%Rec	1	5/6/2023 4:51:00 AM	R96575
Surr: Toluene-d8	94.0	70-130		%Rec	1	5/6/2023 4:51:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-11

Project: A 7 Bettis

Collection Date: 4/27/2023 2:00:00 PM

Lab ID: 2304C68-004

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	61	50		mg/L	100	5/2/2023 8:15:07 PM	R96479
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	1.6	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 5:16:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 5:16:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 5:16:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-11

Project: A 7 Bettis

Collection Date: 4/27/2023 2:00:00 PM

Lab ID: 2304C68-004

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 5:16:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 5:16:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 5:16:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 5:16:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	1	5/6/2023 5:16:00 AM	R96575
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/6/2023 5:16:00 AM	R96575
Surr: Dibromofluoromethane	100	70-130		%Rec	1	5/6/2023 5:16:00 AM	R96575
Surr: Toluene-d8	95.3	70-130		%Rec	1	5/6/2023 5:16:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: DUP01

Project: A 7 Bettis

Collection Date: 4/27/2023

Lab ID: 2304C68-005

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	10		mg/L	200	5/4/2023 6:36:45 PM	R96547
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 5:40:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 5:40:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 5:40:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: DUP01

Project: A 7 Bettis

Collection Date: 4/27/2023

Lab ID: 2304C68-005

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 5:40:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 5:40:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 5:40:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 5:40:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	114	70-130		%Rec	1	5/6/2023 5:40:00 AM	R96575
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2023 5:40:00 AM	R96575
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/6/2023 5:40:00 AM	R96575
Surr: Toluene-d8	95.0	70-130		%Rec	1	5/6/2023 5:40:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-8

Project: A 7 Bettis

Collection Date: 4/27/2023 1:30:00 PM

Lab ID: 2304C68-006

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	130	50		mg/L	100	5/2/2023 9:04:46 PM	R96479
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 6:04:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 6:04:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 6:04:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-8

Project: A 7 Bettis

Collection Date: 4/27/2023 1:30:00 PM

Lab ID: 2304C68-006

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 6:04:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 6:04:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 6:04:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 6:04:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	5/6/2023 6:04:00 AM	R96575
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/6/2023 6:04:00 AM	R96575
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	5/6/2023 6:04:00 AM	R96575
Surr: Toluene-d8	94.3	70-130		%Rec	1	5/6/2023 6:04:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-9

Project: A 7 Bettis

Collection Date: 4/27/2023 4:40:00 PM

Lab ID: 2304C68-007

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	590	100	*	mg/L	200	5/4/2023 6:49:09 PM	R96547
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 6:28:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 6:28:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 6:28:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-9

Project: A 7 Bettis

Collection Date: 4/27/2023 4:40:00 PM

Lab ID: 2304C68-007

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 6:28:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
4-Isopropyltoluene	2.6	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 6:28:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
sec-Butylbenzene	2.4	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 6:28:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 6:28:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	5/6/2023 6:28:00 AM	R96575
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/6/2023 6:28:00 AM	R96575
Surr: Dibromofluoromethane	102	70-130		%Rec	1	5/6/2023 6:28:00 AM	R96575
Surr: Toluene-d8	99.6	70-130		%Rec	1	5/6/2023 6:28:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-10

Project: A 7 Bettis

Collection Date: 4/27/2023 1:00:00 PM

Lab ID: 2304C68-008

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1800	100	*	mg/L	200	5/4/2023 7:01:34 PM	R96547
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 6:53:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 6:53:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 6:53:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-10

Project: A 7 Bettis

Collection Date: 4/27/2023 1:00:00 PM

Lab ID: 2304C68-008

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 6:53:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 6:53:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 6:53:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 6:53:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	5/6/2023 6:53:00 AM	R96575
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2023 6:53:00 AM	R96575
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/6/2023 6:53:00 AM	R96575
Surr: Toluene-d8	93.0	70-130		%Rec	1	5/6/2023 6:53:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-7

Project: A 7 Bettis

Collection Date: 4/27/2023 12:20:00 PM

Lab ID: 2304C68-009

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	350	50	*	mg/L	100	5/2/2023 10:44:02 PM	R96479
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 7:17:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 7:17:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 7:17:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: MW-7

Project: A 7 Bettis

Collection Date: 4/27/2023 12:20:00 PM

Lab ID: 2304C68-009

Matrix: AQUEOUS

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 7:17:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 7:17:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 7:17:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 7:17:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	5/6/2023 7:17:00 AM	R96575
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/6/2023 7:17:00 AM	R96575
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	5/6/2023 7:17:00 AM	R96575
Surr: Toluene-d8	93.3	70-130		%Rec	1	5/6/2023 7:17:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: Trip Blank

Project: A 7 Bettis

Collection Date:

Lab ID: 2304C68-010

Matrix: TRIP BLANK

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: CCM
Benzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Toluene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Ethylbenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Naphthalene	ND	2.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
2-Methylnaphthalene	ND	4.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Acetone	ND	10		µg/L	1	5/6/2023 7:41:00 AM	R96575
Bromobenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Bromodichloromethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Bromoform	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Bromomethane	ND	3.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
2-Butanone	ND	10		µg/L	1	5/6/2023 7:41:00 AM	R96575
Carbon disulfide	ND	10		µg/L	1	5/6/2023 7:41:00 AM	R96575
Carbon Tetrachloride	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Chlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Chloroethane	ND	2.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Chloroform	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Chloromethane	ND	3.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
2-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
4-Chlorotoluene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
cis-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Dibromochloromethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Dibromomethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,1-Dichloroethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,1-Dichloroethene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,3-Dichloropropane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
2,2-Dichloropropane	ND	2.0		µg/L	1	5/6/2023 7:41:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2304C68

Date Reported: 5/9/2023

CLIENT: GHD

Client Sample ID: Trip Blank

Project: A 7 Bettis

Collection Date:

Lab ID: 2304C68-010

Matrix: TRIP BLANK

Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: CCM	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Hexachlorobutadiene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
2-Hexanone	ND	10		µg/L	1	5/6/2023 7:41:00 AM	R96575
Isopropylbenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
4-Isopropyltoluene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
4-Methyl-2-pentanone	ND	10		µg/L	1	5/6/2023 7:41:00 AM	R96575
Methylene Chloride	ND	3.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
n-Butylbenzene	ND	3.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
n-Propylbenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
sec-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Styrene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
tert-Butylbenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
trans-1,2-DCE	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Trichlorofluoromethane	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Vinyl chloride	ND	1.0		µg/L	1	5/6/2023 7:41:00 AM	R96575
Xylenes, Total	ND	1.5		µg/L	1	5/6/2023 7:41:00 AM	R96575
Surr: 1,2-Dichloroethane-d4	112	70-130		%Rec	1	5/6/2023 7:41:00 AM	R96575
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	5/6/2023 7:41:00 AM	R96575
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/6/2023 7:41:00 AM	R96575
Surr: Toluene-d8	93.8	70-130		%Rec	1	5/6/2023 7:41:00 AM	R96575

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304C68
09-May-23

Client: GHD
Project: A 7 Bettis

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R96479	RunNo: 96479								
Prep Date:	Analysis Date: 5/2/2023	SeqNo: 3495781 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R96479	RunNo: 96479								
Prep Date:	Analysis Date: 5/2/2023	SeqNo: 3495782 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	98.0	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R96547	RunNo: 96547								
Prep Date:	Analysis Date: 5/4/2023	SeqNo: 3500043 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R96547	RunNo: 96547								
Prep Date:	Analysis Date: 5/4/2023	SeqNo: 3500044 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.7	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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304C68

09-May-23

Client: GHD

Project: A 7 Bettis

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R96575	RunNo: 96575								
Prep Date:	Analysis Date: 5/6/2023	SeqNo: 3501718	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.3	70	130			
Toluene	19	1.0	20.00	0	95.4	70	130			
Chlorobenzene	19	1.0	20.00	0	97.1	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	89.2	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.0	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.7	70	130			
Surr: Toluene-d8	9.4		10.00		94.5	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R96575	RunNo: 96575								
Prep Date:	Analysis Date: 5/6/2023	SeqNo: 3501719	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 Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/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#: 2304C68

09-May-23

Client: GHD

Project: A 7 Bettis

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R96575	RunNo: 96575								
Prep Date:	Analysis Date: 5/6/2023	SeqNo: 3501719 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 Quantitative Limit
- S

% Recovery outside of standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/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#: 2304C68

09-May-23

Client: GHD

Project: A 7 Bettis

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R96575	RunNo: 96575								
Prep Date:	Analysis Date: 5/6/2023	SeqNo: 3501719 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		116	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.6		10.00		95.6	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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2304C68

RcptNo: 1

Received By: Joseph Alderette 4/28/2023 4:20:00 PM

Completed By: Cheyenne Cason 4/28/2023 4:54:48 PM

Reviewed By: JMS 5/1/23

[Handwritten signature]

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *[Handwritten signature]* 5/1/23

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	1.5	Good	Not Present	Morty		



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

October 31, 2023

Simon Kozik
GHD
6121 Indian School Rd NE Ste 200
Albuquerque, NM 87110

Work Order: **HS23101262**

Laboratory Results for: **12603932 - A-7 Bettis**

Dear Simon Kozik,

ALS Environmental received 13 sample(s) on Oct 19, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER

James Guin

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	SAMPLE SUMMARY
Project:	12603932 - A-7 Bettis	
Work Order:	HS23101262	

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23101262-01	MW-2-20231017	Groundwater		17-Oct-2023 18:00	19-Oct-2023 09:20	☐
HS23101262-02	MW-3-20231017	Groundwater		17-Oct-2023 18:05	19-Oct-2023 09:20	☐
HS23101262-03	MW-4-20231017	Groundwater		17-Oct-2023 15:25	19-Oct-2023 09:20	☐
HS23101262-04	MW-1-20231017	Groundwater		17-Oct-2023 17:40	19-Oct-2023 09:20	☐
HS23101262-05	MW-7-20231017	Groundwater		17-Oct-2023 17:25	19-Oct-2023 09:20	☐
HS23101262-06	MW-5-20231017	Groundwater		17-Oct-2023 15:30	19-Oct-2023 09:20	☐
HS23101262-07	MW-8-20231017	Groundwater		17-Oct-2023 16:20	19-Oct-2023 09:20	☐
HS23101262-08	MW-11-20231017	Groundwater		17-Oct-2023 16:15	19-Oct-2023 09:20	☐
HS23101262-09	MW-9-20231017	Groundwater		17-Oct-2023 17:00	19-Oct-2023 09:20	☐
HS23101262-10	MW-6-20231017	Groundwater		17-Oct-2023 16:50	19-Oct-2023 09:20	☐
HS23101262-11	MW-10-20231017	Groundwater		17-Oct-2023 18:15	19-Oct-2023 09:20	☐
HS23101262-12	DUP-01	Groundwater		17-Oct-2023 00:00	19-Oct-2023 09:20	☐
HS23101262-13	Trip Blank	Water	cg-100323-132	17-Oct-2023 00:00	19-Oct-2023 09:20	☒

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	CASE NARRATIVE
Project:	12603932 - A-7 Bettis	
Work Order:	HS23101262	

Work Order Comments

- Login comments: Trip Blank received, not listed on COC placed on hold.

WetChemistry by Method E300

Batch ID: R450482

Sample ID: MW-11-20231017 (HS23101262-08MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride)

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-2-20231017	Lab ID:HS23101262-01
Collection Date:	17-Oct-2023 18:00	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	282		5.00	mg/L	10	30-Oct-2023 17:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-3-20231017	Lab ID:HS23101262-02
Collection Date:	17-Oct-2023 18:05	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	374		5.00	mg/L	10	30-Oct-2023 17:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-4-20231017	Lab ID:HS23101262-03
Collection Date:	17-Oct-2023 15:25	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	164		2.50	mg/L	5	30-Oct-2023 17:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-1-20231017	Lab ID:HS23101262-04
Collection Date:	17-Oct-2023 17:40	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	215		2.50	mg/L	5	30-Oct-2023 17:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-7-20231017	Lab ID:HS23101262-05
Collection Date:	17-Oct-2023 17:25	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	482		5.00	mg/L	10	30-Oct-2023 17:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-5-20231017	Lab ID:HS23101262-06
Collection Date:	17-Oct-2023 15:30	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	165		1.00	mg/L	2	30-Oct-2023 17:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-8-20231017	Lab ID:HS23101262-07
Collection Date:	17-Oct-2023 16:20	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	159		1.00	mg/L	2	30-Oct-2023 18:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-11-20231017	Lab ID:HS23101262-08
Collection Date:	17-Oct-2023 16:15	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	65.7		0.500	mg/L	1	30-Oct-2023 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-9-20231017	Lab ID:HS23101262-09
Collection Date:	17-Oct-2023 17:00	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	627		5.00	mg/L	10	30-Oct-2023 18:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-6-20231017	Lab ID:HS23101262-10
Collection Date:	17-Oct-2023 16:50	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	156		1.00	mg/L	2	30-Oct-2023 18:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	MW-10-20231017	Lab ID:HS23101262-11
Collection Date:	17-Oct-2023 18:15	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	2,050		25.0	mg/L	50	30-Oct-2023 18:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client:	GHD	ANALYTICAL REPORT
Project:	12603932 - A-7 Bettis	WorkOrder:HS23101262
Sample ID:	DUP-01	Lab ID:HS23101262-12
Collection Date:	17-Oct-2023 00:00	Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH		
Chloride	2,140		25.0	mg/L	50	30-Oct-2023 18:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 31-Oct-23

Client: GHD
Project: 12603932 - A-7 Bettis
WorkOrder: HS23101262

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R450482 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Groundwater	
HS23101262-01	MW-2-20231017	17 Oct 2023 18:00			30 Oct 2023 17:01	10
HS23101262-02	MW-3-20231017	17 Oct 2023 18:05			30 Oct 2023 17:07	10
HS23101262-03	MW-4-20231017	17 Oct 2023 15:25			30 Oct 2023 17:12	5
HS23101262-04	MW-1-20231017	17 Oct 2023 17:40			30 Oct 2023 17:18	5
HS23101262-05	MW-7-20231017	17 Oct 2023 17:25			30 Oct 2023 17:24	10
HS23101262-06	MW-5-20231017	17 Oct 2023 15:30			30 Oct 2023 17:30	2
HS23101262-07	MW-8-20231017	17 Oct 2023 16:20			30 Oct 2023 18:05	2
HS23101262-08	MW-11-20231017	17 Oct 2023 16:15			30 Oct 2023 18:11	1
HS23101262-09	MW-9-20231017	17 Oct 2023 17:00			30 Oct 2023 18:28	10
HS23101262-10	MW-6-20231017	17 Oct 2023 16:50			30 Oct 2023 18:34	2
HS23101262-11	MW-10-20231017	17 Oct 2023 18:15			30 Oct 2023 18:40	50
HS23101262-12	DUP-01	17 Oct 2023 00:00			30 Oct 2023 18:46	50

ALS Houston, US

Date: 31-Oct-23

Client: GHD
Project: 12603932 - A-7 Bettis
WorkOrder: HS23101262

QC BATCH REPORT

Batch ID: R450482 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MBLK	Sample ID: MBLK	Units: mg/L		Analysis Date: 30-Oct-2023 14:36					
Client ID:	Run ID: ICS-Integrion_450482		SeqNo: 7642623		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	< 0.500	0.500							U
LCS	Sample ID: LCS	Units: mg/L		Analysis Date: 30-Oct-2023 14:48					
Client ID:	Run ID: ICS-Integrion_450482		SeqNo: 7642624		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	20.29	0.500	20	0	101	90 - 110			
MS	Sample ID: HS23101916-11MS	Units: mg/L		Analysis Date: 30-Oct-2023 15:35					
Client ID:	Run ID: ICS-Integrion_450482		SeqNo: 7642626		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	23.63	0.500	10	13.22	104	80 - 120			
MS	Sample ID: HS23101262-08MS	Units: mg/L		Analysis Date: 30-Oct-2023 18:17					
Client ID: MW-11-20231017	Run ID: ICS-Integrion_450482		SeqNo: 7642647		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	71.21	0.500	10	65.66	55.5	80 - 120			SO
MSD	Sample ID: HS23101916-11MSD	Units: mg/L		Analysis Date: 30-Oct-2023 15:41					
Client ID:	Run ID: ICS-Integrion_450482		SeqNo: 7642627		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	23.5	0.500	10	13.22	103	80 - 120	23.63	0.539	20
MSD	Sample ID: HS23101262-08MSD	Units: mg/L		Analysis Date: 30-Oct-2023 18:22					
Client ID: MW-11-20231017	Run ID: ICS-Integrion_450482		SeqNo: 7642648		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	71.31	0.500	10	65.66	56.5	80 - 120	71.21	0.143	20 SO
The following samples were analyzed in this batch:									
HS23101262-01		HS23101262-02		HS23101262-03		HS23101262-04			
HS23101262-05		HS23101262-06		HS23101262-07		HS23101262-08			
HS23101262-09		HS23101262-10		HS23101262-11		HS23101262-12			

ALS Houston, US

Date: 31-Oct-23

Client: GHD
Project: 12603932 - A-7 Bettis
WorkOrder: HS23101262

**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
M	Manually integrated, see raw data for justification
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/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
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 Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 31-Oct-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 31-Oct-23

Sample Receipt Checklist

Work Order ID: HS23101262

Date/Time Received: 19-Oct-2023 09:20

Client Name: GHD Albuquerque

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	19-Oct-2023 14:20	Reviewed by: /S/ James Guin	20-Oct-2023 09:35
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier 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 ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:305651, 305650
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☒	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.7UC/1.6C IR31		
Cooler(s)/Kit(s):	51636		
Date/Time sample(s) sent to storage:	10/19/23		
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:	Trip Blank received, not listed on COC placed on hold.		

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 305651

Houston, TX
+1 281 530 5656Middletown, PA
+1 717 944 5541Spring City, PA
+1 610 948 4903Salt Lake City, UT
+1 801 266 7700South Charleston, WV
+1 304 356 3168York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis												
Purchase Order	12603932 - E-19002-GS-26050005	Project Name	12603932 - A-7 Bettis	A	8260_LL_W (8260 BTEX)													
Work Order		Project Number	12603932	B	300_W (Chloride)													
Company Name	GHD	Bill To Company	ETC Texas Pipeline, LTD	C	HS23101262 GHD 12603932 - A-7 Bettis 													
Send Report To	Blair Owen	Invoice Attn	ETC Pipeline A/P	D														
Address	11451 Katy Fwy Suite 400	Address	1300 Main Street	E														
				F														
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77002	G														
Phone	(561) 339-3572	Phone		H														
Fax		Fax		I														
e-Mail Address	blair.owen@ghd.com	e-Mail Address	apinvoicessp.mailbox@energytransfer	J														

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-2-20231017	10/17	1800	GW	8	1		X									
2	MW-3-20231017	10/17	1805	GW	8	1		X									
3	MW-4-20231017	10/17	1525	GW	8	1		X									
4	MW-1-20231017	10/17	1740	GW	8	1		X									
5	MW-7-20231017	10/17	1725	GW	8	1		X									
6	MW-5-20231017	10/17	1530	GW	8	1		X									
7	MW-8-20231017	10/17	1620	GW	8	1		X									
8	MW-11-20231017	10/17	1625	GW	8	1		X									
9	MW-9-20231017	10/17	1700	GW	8	1		X									
10	MW-6-20231017	10/17	1650	GW	8	1		X									

Sampler(s) Please Print & Sign Hunter Johnson		Shipment Method [] Other		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: [Signature]		Date: 10/18		Time: 6745		Notes: 12603932 - A-7 Bettis	
Relinquished by: [Signature]		Date:		Time:		Received by (Laboratory): [Signature]	
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory): [Signature]	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035		Cooler ID: 51636 1521		Cooler Temp: 1.7		QC Package: (Check One Box Below) ☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Date ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 305650

Houston, TX
+1 281 530 5656Middletown, PA
+1 717 944 5541Spring City, PA
+1 610 948 4903Salt Lake City, UT
+1 801 266 7700South Charleston, WV
+1 304 356 3168York, PA
+1 717 505 5280

Customer Information			Project Information			Parameter/Method Request for Analysis											
Purchase Order	12603932 - E-19002-GS-26050005	Project Name	12603932 - A-7 Bettis	A	8260_LL_W (8260 BTEX)												
Work Order		Project Number	12603932	B	300_W (Chloride)												
Company Name	GHD	Bill To Company	ETC Texas Pipeline, LTD	C	HS23101262 GHD 12603932 - A-7 Bettis 												
Send Report To	Blair Owen	Invoice Attn	ETC Pipeline A/P	D													
Address	11451 Katy Fwy Suite 400	Address	1300 Main Street	E													
				F													
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77002	G													
Phone	(561) 339-3572	Phone		H													
Fax		Fax		I													
e-Mail Address	blair.owen@ghd.com	e-Mail Address	apinvoicesetp.mailbox@energytransfer	J													

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-10-30231017	10/17	1815	GW	B	1		X									
2	DUP-07	10/17		GW	B	1		X									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign Hunter Johnson		Shipment Method		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:	
Relinquished by:	Date: 10/18	Time: 0745	Received by:		Notes: 12603932 - A-7 Bettis				
Relinquished by:	Date:	Time:	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):				☒ Level II Std QC	TRRP Checklist	
							☐ Level III Std QC/Raw Data	☐ TRRP Level IV	
							☐ Level IV SVW46/CLP		
							☐ Other		

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 6/18/27
Time: 10:10
Name: [Signature]
Company: [Signature]

Seal Broken By: [Signature]
Date: [Signature]

dEx

6862 6798 0709

PRIORITY OVER

AB SGRA

77099

TX-US IAH



CRB9AE3



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 342826

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID:	371183
	Action Number:	342826
	Action Type:	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Monitoring Report A-7 Bettis: Content Satisfactory 1. Continue semi-annual groundwater monitoring for chloride in MW-1, MW-3, MW-6, MW-7, MW-9 and MW-10 2. Continue annual groundwater monitoring in wells: MW-2, MW-4, MW-5, MW-8, and MW-11 3. BTEX may be suspended from the sampling program as at least eight (8) consecutive quarters and/or semi-annual events have demonstrated concentrations below the standards in the WQCC. 4. Proceed to install MW-12 upgradient of MW-10 as planned. 5. Submit the 2024 Annual Report by April 1 2025.	6/7/2024