1755 Wittington Place, Suite 500
Dallas, Texas 75234
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Your Ref.: Incident Number nAPP2217177320
Our Ref.: 12659480-Velez-1

April 15, 2025

Mr. Nelson Velez
State of New Mexico
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
811 South First Street
Hobbs, New Mexico 88210

2024 Annual Groundwater Monitoring Report
Jal No. 4 Former Tank Battery
ET Gathering & Processing LLC
Lea County, New Mexico
New Mexico Oil Conservation Division Remediation Case No. 1RP-1457
Incident Number nAPP2217177320

Dear Mr. Velez:

On behalf of ET Gathering & Processing LLC (ET G&P) formerly ETC Texas Pipeline, Ltd. (ETC), GHD Services Inc. (GHD) is submitting the 2024 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 2024 in accordance with the NMOCD's recommendations in response to the 2023 Annual Groundwater Monitoring Report submitted to the NMOCD.

Should you have any questions or comments regarding this submittal, please do not hesitate to contact the undersigned.

Regards,

GHD

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Project Manager

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DW/jlf/1

Encl.: 2024 Annual Groundwater Monitoring Report

Copy to: Stacy Boultinghouse, ET G&P
Kelly Myers, Property Owner

2024 Annual Groundwater Monitoring Report

Jal No. 4 Former Tank Battery
Lea County, New Mexico
NMOCD 1RP-1457
Incident Number nAPP2217177320

ET Gathering & Processing LLC

April 15, 2025

→ The Power of Commitment

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Document title	2024 Annual Groundwater Monitoring Report | Jal No. 4 Former Tank Battery						
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[Status code]							

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[Compliance statement]

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1. Introduction

This report presents the results of groundwater monitoring activities performed in 2024 by GHD Services Inc. (GHD) at the ET Gathering & Processing LLC (ET G&P, formerly ETC Texas Pipeline, Ltd.), Jal No. 4 former tank battery (Site). The Site is located on Deep Wells Road about ½ mile west of Highway 18 and approximately 10 miles north of Jal, Lea County, New Mexico in Section 31, Township 23 South, Range 37 East. The location of the Site is shown on **Figure 1**. The property is owned by Mr. Kelly Myers. The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under remediation permit 1RP-1457 and is associated with incident number nAPP2217177320.

1.1 Site Background

The Site is currently vacant land but was formerly developed with a tank battery that included aboveground storage tanks (ASTs) that stored natural gas condensate (condensate) and produced water. In April 2007, a release from a 410-barrel (bbl) AST tank was discovered by the previous operator of the Site, Southern Union Gas Services, Ltd. Approximately 140 bbls of condensate and 140 bbls of produced water were estimated to have been released in an approximately 2,772 square foot area. Based on the released products, the primary constituents of concern (COCs) at the Site include benzene, toluene, ethylbenzene, and xylenes (BTEX) and chloride.

Approximately 7,500 cubic yards of soil were excavated from the release area during November 2012 and January 2013. A liner was placed in the bottom of the excavation, at approximately 15 feet below ground surface (ft bgs), to minimize further vertical migration of the constituents left in place.

A total of six monitoring wells (MW-1 through MW-6) and one recovery well (RW-1) have been installed at the Site (**Figure 2**). Recovery well RW-1 was installed to recover light non-aqueous phase liquid (LNAPL), but only a sheen has ever been observed during monitoring events. However, monitoring well MW-1 has consistently had measurable LNAPL since its installation. Groundwater monitoring has been performed at the Site since February 2013 and in 2016 the monitoring switched to a semi-annual schedule.

In March 2015, a bail down test was conducted at the Site to estimate LNAPL transmissivity in conjunction with a PIANO (n-paraffin, iso-paraffin, aromatics, naphthalene, and olefins) analysis on LNAPL collected from monitoring well MW-1. The bail-down test returned estimated LNAPL transmissivity for the Site of 0.34 feet per day for monitoring well MW-1. This transmissivity value falls in the de minimis recoverability range for LNAPL recommended by the Interstate Technology and Regulatory Council (ITRC). The LNAPL plume at the Site appears to be stable and further migration of LNAPL is unlikely. Results of the PIANO analysis show that carbon range indicators for the sample ranged from C4 to C26. The primary indicators ranged from C6 to C10. LNAPL falling within this range is typically gasoline or light condensate. Details of both the bail down test and PIANO analysis are discussed in detail in the 2015 Annual Groundwater Monitoring Report for the Site.

In November 2015, a solar controlled, compressed air powered, QED in-well skimmer pump was installed to recover LNAPL from monitoring well MW-1. This skimmer operated at the Site in monitoring well MW-1 until November 2018 and recovered approximately 304 gallons of LNAPL during its operation. The skimmer was removed due to low recovery and frequent maintenance due to Site conditions.

Mobile dual phase extraction (MDPE) events were performed at the Site in 2018, 2019, and 2020, recovering a total of 332 gallons of LNAPL. Details of the MDPE events are discussed in previous groundwater monitoring reports prepared for the Site.

Currently, absorbent socks are present in monitoring well MW-1 for passive LNAPL recovery and are being replaced on a quarterly basis. GHD assumes 10 ounces of LNAPL is recovered per absorbent sock. During the absorbent sock replacement, residual LNAPL is also recovered via a disposable polyethylene bailer and placed into a drum on-Site. Approximately 0.20 gallons of LNAPL are recovered during each bailing event. A summary of LNAPL recovery at the Site is presented in **Table 1**.

Semi-annual groundwater monitoring and quarterly LNAPL recovery events were completed in 2024 and are further discussed below.

2. Groundwater Monitoring

GHD performed semi-annual groundwater monitoring events at the Site in May and November 2024. The monitoring program included gauging monitoring wells MW-1 through MW-6 and recovery well RW-1 and collecting samples from wells MW-2 through MW-6 and RW-1. Wells where LNAPL was present were not sampled.

2.1 Monitoring Well Gauging

On May 21 through 22 and November 19 through 20, 2024, GHD personnel measured the depth to groundwater and LNAPL thickness, if present, in monitoring wells MW-1 through MW-6 and recovery well RW-1 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, LNAPL thicknesses, and calculated groundwater elevations are summarized in **Table 2**.

Based on the data collected in 2024, groundwater flow is generally east-southeast and is consistent with historical data for the Site. The groundwater gradient was calculated at 0.0016 foot per linear foot (ft/ft) in May and 0.0023 ft/ft in November. Groundwater potentiometric surface maps are presented as **Figures 3 and 4.**

2.2 LNAPL Presence and Recovery

GHD performed quarterly LNAPL abatement events for monitoring well MW-1 on February 8, May 21, September 5, and November 19, 2024. The abatement program included hand-bailing LNAPL using a polyethylene bailer and passively recovering LNAPL using a Pig™ monitoring well skimming sock (hydrocarbon absorbent sock) between quarterly bailing events. The absorbents socks were replaced with new socks in May, September, and November with the spent socks disposed properly into a drum on-Site.

A measurable thickness of LNAPL was gauged in monitoring well MW-1 during each quarterly event as follows: 0.76 ft in February, 1.68 ft in May, 1.01 ft in September, and 0.95 ft in November.

The used socks were stored in a sealed and labeled 55-gallon drum on a spill containment pallet on-Site, pending proper disposal once the drum is full. The socks recovered approximately 0.23 gallons of LNAPL, and hand-bailing recovered approximately 0.5 gallons of LNAPL for a combined total of 0.73 gallons recovered in 2024. A summary of LNAPL recovery at the Site is presented in **Table 1**.

2.3 Groundwater Sampling

Following gauging during each semi-annual groundwater monitoring event and prior to sampling, GHD personnel utilized a bladder pump with dedicated polyethylene tubing for each well to purge a minimum of three well volumes of groundwater. The monitoring and recovery wells were given time to stabilize prior to collecting a groundwater sample. Groundwater quality parameters of temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO), and conductivity were collected with a field-calibrated multi-parameter groundwater quality meter. A summary of field parameters is presented in **Table 3**. Monitoring well MW-1 was not sampled due to the presence of LNAPL.

Following purging and confirmation of groundwater stabilization, groundwater samples were collected from wells MW-2 through MW-6 and RW-1 via low-flow sampling equipment with dedicated polyethylene tubing for each well. The samples were placed in laboratory-supplied sample containers, packed in a cooler with ice, and transported under chain-of-custody documentation to ALS Environmental Laboratory (ALS) in Houston, Texas. All samples were analyzed for BTEX by United States Environmental Protection Agency (USEPA) Method SW8260C, chloride by EPA Method 300.0, and total dissolved solids (TDS) by Standard Method 2540C.

2.4 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.

2.5 Analytical Results

The New Mexico Water Quality Control Commission (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 New Mexico Administrative Code (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 2024 are summarized in **Table 4**, and the corresponding laboratory analytical reports are included in **Appendix A**. A COC concentration map depicting concentrations for 2024 is presented as **Figure 5**. A summary of results is discussed below:

– Benzene was detected at concentrations above NMWQCC criteria in all groundwater samples collected from recovery well RW-1 in 2024.
– Toluene, ethylbenzene, and xylenes concentrations were below NMWQCC criteria or below laboratory detection limits in all groundwater samples collected in 2024.
– Chloride was detected at concentrations above laboratory detection limits in all groundwater samples collected in 2024; however, concentrations did not exceed NMWQCC criteria.
– TDS was detected at concentrations above laboratory detection limits in all groundwater samples collected in 2024; however, concentrations did not exceed NMWQCC criteria.

3. Summary and Recommendations

3.1 Summary

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

– An average thickness of 1.10 ft of LNAPL was present in monitoring well MW-1 in 2024.
– Absorbent socks and bailing were deployed as LNAPL recovery methods in 2024.
– Benzene was detected at concentrations above NMWQCC criteria in all groundwater samples collected from recovery well RW-1 in 2024. The concentrations appear to be stable or decreasing.
– Toluene, ethylbenzene, and xylenes concentrations were below NMWQCC criteria or below laboratory detection limits in all groundwater samples collected in 2024.
– Chloride was detected at concentrations above laboratory detection limits in all groundwater samples collected in 2024; however, concentrations did not exceed NMWQCC criteria.
– TDS was detected at concentrations above laboratory detection limits in all groundwater samples collected in 2024; however, concentrations did not exceed NMWQCC criteria.

3.2 Recommendations

Based on the results of the 2024 groundwater monitoring events, GHD recommends the following in 2025:

– Continue semi-annual groundwater monitoring for BTEX in monitoring well MW-1 and recovery well RW-1.
– Conduct annual groundwater monitoring for BTEX in monitoring wells MW-2 through MW-6.
– Discontinue groundwater monitoring for TDS and chloride in all wells.

– Conduct quarterly LNAPL abatement events via hand-bailing at monitoring well MW-1 in 2025.
– Between LNAPL abatement events, passively recover LNAPL via hydrocarbon absorbent socks in monitoring well MW-1, which will be replaced during each quarterly event.

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 LNAPL Recovery
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well	Year	Method	LNAPL Recovered (gallons)	Impacted Groundwater Recovered (gallons)
MW-1	2015	Skimmer Pump	8.00	0.00
	2016	Skimmer Pump	57.00	108.00
	2017	Skimmer Pump	147.00	18.00
	2018	Skimmer Pump	92.00	unknown
	2018	MDPE	54.80	269.00
	2019	MDPE	153.65	377.00
	2020	MDPE	121.08	444.00
	2021	Absorbent Socks and Bailing	2.17	0.00
	2022	Absorbent Socks and Bailing	1.31	0.00
	2023	Absorbent Socks and Bailing	3.58	0.00
	2024	Absorbent Socks and Bailing	0.73	0.00
		Total	**641.32**	**1,216.00**

Notes:

1) LNAPL - light non-aqueous phase liquids.
2) MDPE - mobile dual phase extraction.
3) GHD assumes 10 ounces of LNAPL recovered per absorbent sock, which is replaced quarterly.
4) Approximately 0.25 gallons of LNAPL is recovered during each quarterly bailing event

Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
RW-1	120.90	3,312.88	11/1/2013	--	112.60	--	3,200.28
			5/27/2014	--	112.79	--	3,200.09
			6/20/2014	--	112.66	--	3,200.22
			8/11/2014	--	112.99	--	3,199.89
			9/5/2014	--	112.65	--	3,200.23
			12/10/2014	--	113.47	--	3,199.41
			3/2/2015	--	112.20	--	3,200.68
			6/18/2015	--	112.39	--	3,200.49
			10/1/2015	--	112.47	--	3,200.41
			11/24/2015	--	112.42	--	3,200.46
			12/17/2015	--	112.44	--	3,200.44
			1/28/2016	--	112.30	--	3,200.58
			2/24/2016	--	112.30	--	3,200.58
			4/7/2016	--	112.36	--	3,200.52
			5/26/2016	--	112.30	--	3,200.58
			6/30/2016	--	112.35	--	3,200.53
			7/26/2016	--	112.27	--	3,200.61
			9/22/2016	--	112.40	--	3,200.48
			10/5/2016	--	112.41	--	3,200.47
			11/30/2016	--	112.22	--	3,200.66
			2/23/2017	--	112.25	--	3,200.63
			5/10/2017	--	112.34	--	3,200.54
			11/30/2017	--	112.75	--	3,200.13
			5/11/2018	--	112.15	--	3,200.73
			11/8/2018	--	112.00	--	3,200.88
			4/2/2019	--	111.98	--	3,200.90
			5/15/2019	--	111.98	--	3,200.90
			8/12/2019	--	111.99	--	3,200.89
			9/24/2019	--	111.80	--	3,201.08
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	118.30	--	3,194.58
			1/16/2020	--	111.99	--	3,200.89
			3/26/2020	--	112.02	--	3,200.86
			5/13/2020	--	111.86	--	3,201.02
			9/24/2020	--	112.04	--	3,200.84
			5/3/2021	--	111.93	--	3,200.95
			10/6/2021	--	112.00	--	3,200.88
			5/26/2022	--	111.90	--	3,200.98
			11/10/2022	--	111.83	--	3,201.05
			5/30/2023	--	111.98	--	3,200.90
			11/9/2023	--	111.95	--	3,200.93
			2/8/2024	--	111.94	--	3200.94
			5/22/2024	--	111.86	--	3201.02
			9/5/2024	--	112.02	--	3200.86
			11/19/2024	--	111.99	--	3200.89

Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-1	117.70	3,313.54	10/31/2013	112.25	115.80	3.55	3,200.40
			11/1/2013	--	112.41	--	3,201.13
			5/27/2014	112.70	115.75	3.05	3,200.08
			6/20/2014	112.65	115.73	3.08	3,200.12
			7/10/2014	112.37	116.12	3.75	3,200.23
			7/24/2014	112.30	116.21	3.91	3,200.26
			7/28/2014	112.47	116.10	3.63	3,200.16
			8/5/2014	112.50	116.18	3.68	3,200.12
			8/11/2014	112.48	116.16	3.68	3,200.14
			8/18/2014	112.45	116.12	3.67	3,200.17
			9/5/2014	112.46	116.12	3.66	3,200.17
			12/10/2014	112.22	115.77	3.55	3,200.43
			3/2/2015	112.05	115.56	3.51	3,200.61
			6/18/2015	112.23	115.71	3.48	3,200.44
			10/1/2015	112.33	115.72	3.39	3,200.36
			11/24/2015	112.30	115.40	3.10	3,200.47
			12/17/2015	112.44	115.03	2.59	3,200.45
			1/28/2016	112.23	114.82	2.59	3,200.66
			2/24/2016	112.32	114.55	2.23	3,200.66
			4/7/2016	112.36	114.99	2.63	3,200.52
			5/26/2016	112.25	114.98	2.73	3,200.61
			6/30/2016	112.36	114.89	2.53	3,200.55
			7/26/2016	112.30	114.71	2.41	3,200.64
			8/25/2016	112.34	114.93	2.59	3,200.55
			9/22/2016	112.55	114.37	1.82	3,200.54
			10/5/2016	112.44	114.83	2.39	3,200.50
			11/30/2016	111.23	114.64	3.41	3,201.46
			2/23/2017	112.21	114.54	2.33	3,200.75
			5/10/2017	112.56	114.05	1.49	3,200.61
			5/30/2017	112.53	113.97	1.44	3,200.65
			11/30/2017	112.43	114.09	1.66	3,200.70
			12/13/2017	112.58	113.37	0.79	3,200.76
			2/27/2018	112.21	114.16	1.95	3,200.84
			3/4/2018	112.29	113.88	1.59	3,200.85
			4/16/2018	112.35	113.57	1.22	3,200.89
			5/11/2018	112.30	113.84	1.54	3,200.86
			6/6/2018	112.25	114.00	1.75	3,200.85
			8/16/2018	112.24	114.13	1.89	3,200.83
			9/24/2018	112.20	114.17	1.97	3,200.85
			11/8/2018	112.12	113.46	1.34	3,201.09
			4/2/2019	112.17	114.26	2.09	3,200.85

Summary of Groundwater Elevation Data
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ET Gathering & Processing LLC
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Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-1	117.70	3,313.54	5/15/2019	112.14	114.33	2.19	3,200.85
			6/26/2019	112.18	114.44	2.26	3,200.80
			8/12/2019	112.16	114.36	2.20	3,200.83
			9/24/2019	112.15	114.38	2.23	3,200.83
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	112.20	114.35	2.15	3,200.80
			1/16/2020	112.17	114.35	2.18	3,200.83
			3/26/2020	112.17	114.34	2.17	3,200.83
			5/1/2020	112.19	114.29	2.10	3,200.83
			5/13/2020	112.02	114.13	2.11	3,200.99
			6/3/2020	112.17	114.10	1.93	3,200.89
			9/24/2020	112.24	--	--	--
			9/29/2020	112.24	114.34	2.10	3,200.78
			12/15/2020	112.28	114.40	2.12	3,200.73
			1/28/2021	112.21	114.29	2.08	3,200.81
			3/31/2021	112.23	114.26	2.03	3,200.80
			4/20/2021	112.56	113.53	0.97	3,200.74
			5/3/2021	112.36	113.35	0.99	3,200.93
			6/15/2021	112.56	113.22	0.66	3,200.82
			9/15/2021	112.42	113.36	0.94	3,200.89
			10/6/2021	112.17	114.18	2.01	3,200.87
			5/26/2022	112.27	113.52	1.25	3,200.96
			11/8/2022	Instrument Error	114.49	--	--
			5/30/2023	112.32	113.91	1.59	3,200.57
			11/9/2023	112.21	113.92	1.71	3,200.90
			2/8/2024	112.44	113.2	0.76	3200.91
			5/22/2024	112.16	113.84	1.68	3200.96
			9/5/2024	112.49	113.5	1.01	3200.8
			11/19/2024	112.6	113.55	0.95	3200.7

Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-2	128.10	3,312.39	11/1/2013	--	112.44	--	3,199.95
			5/27/2014	--	112.62	--	3,199.77
			6/20/2014	--	112.49	--	3,199.90
			8/11/2014	--	112.91	--	3,199.48
			9/5/2014	--	112.50	--	3,199.89
			12/10/2014	--	112.31	--	3,200.08
			3/2/2015	--	112.15	--	3,200.24
			6/18/2015	--	112.32	--	3,200.07
			10/1/2015	--	112.42	--	3,199.97
			11/24/2015	--	112.26	--	3,200.13
			12/17/2015	--	112.33	--	3,200.06
			1/28/2016	--	112.11	--	3,200.28
			2/24/2016	--	112.12	--	3,200.27
			4/7/2016	--	112.27	--	3,200.12
			5/26/2016	--	112.18	--	3,200.21
			6/30/2016	--	112.22	--	3,200.17
			7/26/2016	--	112.11	--	3,200.28
			9/22/2016	--	112.22	--	3,200.17
			10/5/2016	--	112.26	--	3,200.13
			11/30/2016	--	112.05	--	3,200.34
			5/10/2017	--	112.16	--	3,200.23
			11/30/2017	--	111.90	--	3,200.49
			5/11/2018	--	111.89	--	3,200.50
			11/8/2018	--	112.10	--	3,200.29
			4/2/2019	--	111.87	--	3,200.52
			5/15/2019	--	111.91	--	3,200.48
			8/12/2019	--	111.90	--	3,200.49
			9/24/2019	--	111.84	--	3,200.55
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	--	--	--
			1/16/2020	--	111.90	--	3,200.49
			3/26/2020	--	111.94	--	3,200.45
			5/13/2020	--	111.76	--	3,200.63
			9/24/2020	--	111.95	--	3,200.44
			5/3/2021	--	111.90	--	3,200.49
			10/6/2021	--	111.88	--	3,200.51
			5/26/2022	--	112.23	--	3,200.16
			11/9/2022	--	111.71	--	3,200.68
			5/30/2023	--	111.90	--	3,200.49
			11/9/2023	--	111.89	--	3,200.50
			2/8/2024	--	111.86	--	3200.53
			5/21/2024	--	111.77	--	3200.62
			9/5/2024	--	111.96	--	3200.43
			11/19/2024	--	112.01	--	3200.38

Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-3	127.20	3,312.78	11/1/2013	--	112.75	--	3,200.03
			5/27/2014	--	112.90	--	3,199.88
			6/20/2014	--	112.47	--	3,200.31
			8/11/2014	--	112.90	--	3,199.88
			9/5/2014	--	112.79	--	3,199.99
			12/10/2014	--	112.60	--	3,200.18
			3/2/2015	--	112.41	--	3,200.37
			6/18/2015	--	112.58	--	3,200.20
			10/1/2015	--	112.63	--	3,200.15
			11/24/2015	--	112.54	--	3,200.24
			12/17/2015	--	112.61	--	3,200.17
			1/28/2016	--	112.39	--	3,200.39
			2/24/2016	--	112.37	--	3,200.41
			4/7/2016	--	112.54	--	3,200.24
			5/26/2016	--	112.44	--	3,200.34
			6/30/2016	--	112.47	--	3,200.31
			7/26/2016	--	112.37	--	3,200.41
			9/22/2016	--	112.49	--	3,200.29
			10/5/2016	--	112.53	--	3,200.25
			11/30/2016	--	112.32	--	3,200.46
			5/10/2017	--	112.41	--	3,200.37
			11/30/2017	--	112.21	--	3,200.57
			5/11/2018	--	112.16	--	3,200.62
			11/8/2018	--	112.95	--	3,199.83
			4/2/2019	--	112.14	--	3,200.64
			5/15/2019	--	112.19	--	3,200.59
			8/12/2019	--	112.17	--	3,200.61
			9/24/2019	--	112.05	--	3,200.73
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	--	--	--
			1/16/2020	--	112.14	--	3,200.64
			3/26/2020	--	112.18	--	3,200.60
			5/13/2020	--	112.05	--	3,200.73
			9/24/2020	--	112.19	--	3,200.59
			5/3/2021	--	112.10	--	3,200.68
			10/6/2021	--	112.11	--	3,200.67
			5/26/2022	--	112.01	--	3,200.77
			11/9/2022	--	111.97	--	3,200.81
			5/30/2023	--	112.14	--	3,200.64
			11/9/2023	--	112.03	--	3,200.75
			2/8/2024	--	112.08	--	3200.7
			5/22/2024	--	112.08	--	3200.7
			9/5/2024	--	112.19	--	3200.59
			11/19/2024	--	112.15	--	3200.63

Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-4	128.70	3,313.19	11/1/2013	--	112.85	--	3,200.34
			5/27/2014	--	113.05	--	3,200.14
			6/20/2014	--	112.93	--	3,200.26
			8/11/2014	--	113.03	--	3,200.16
			9/5/2014	--	112.91	--	3,200.28
			12/10/2014	--	112.75	--	3,200.44
			3/2/2015	--	112.55	--	3,200.64
			6/18/2015	--	112.74	--	3,200.45
			10/1/2015	--	112.81	--	3,200.38
			11/24/2015	--	112.70	--	3,200.49
			12/17/2015	--	112.77	--	3,200.42
			1/28/2016	--	112.53	--	3,200.66
			2/24/2016	--	112.53	--	3,200.66
			4/7/2016	--	112.66	--	3,200.53
			5/26/2016	--	112.58	--	3,200.61
			6/30/2016	--	112.64	--	3,200.55
			7/26/2016	--	112.64	--	3,200.55
			9/22/2016	--	112.65	--	3,200.54
			10/5/2016	--	112.69	--	3,200.50
			11/30/2016	--	112.46	--	3,200.73
			5/10/2017	--	112.56	--	3,200.63
			11/30/2017	--	112.38	--	3,200.81
			5/11/2018	--	112.32	--	3,200.87
			11/8/2018	--	112.25	--	3,200.94
			4/2/2019	--	112.30	--	3,200.89
			5/15/2019	--	112.33	--	3,200.86
			8/12/2019	--	112.34	--	3,200.85
			9/24/2019	--	112.25	--	3,200.94
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	--	--	--
			1/16/2020	--	112.32	--	3,200.87
			3/26/2020	--	112.34	--	3,200.85
			5/13/2020	--	112.18	--	3,201.01
			9/24/2020	--	112.36	--	3,200.83
			5/3/2021	--	112.26	--	3,200.93
			10/6/2021	--	112.27	--	3,200.92
			5/26/2022	--	112.19	--	3,201.00
			11/9/2022	--	112.12	--	3,201.07
			5/30/2023	--	112.32	--	3,200.87
			11/9/2023	--	112.22	--	3,200.97
			2/8/2024	--	112.24	--	3200.95
			5/21/2024	--	112.13	--	3201.06
			9/5/2024	--	112.35	--	3200.84
			11/19/2024	--	112.29	--	3200.9

Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-5	127.30	3,314.39	11/1/2013	--	113.85	--	3,200.54
			5/27/2014	--	114.05	--	3,200.34
			6/20/2014	--	113.94	--	3,200.45
			8/11/2014	--	114.03	--	3,200.36
			9/5/2014	--	113.94	--	3,200.45
			12/10/2014	--	113.76	--	3,200.63
			3/2/2015	--	113.58	--	3,200.81
			6/18/2015	--	113.17	--	3,201.22
			10/1/2015	--	113.79	--	3,200.60
			11/24/2015	--	113.69	--	3,200.70
			12/17/2015	--	113.72	--	3,200.67
			1/28/2016	--	113.53	--	3,200.86
			2/24/2016	--	113.51	--	3,200.88
			4/7/2016	--	113.62	--	3,200.77
			5/26/2016	--	113.56	--	3,200.83
			6/30/2016	--	113.61	--	3,200.78
			7/26/2016	--	113.52	--	3,200.87
			9/22/2016	--	113.63	--	3,200.76
			10/5/2016	--	113.66	--	3,200.73
			11/30/2016	--	113.45	--	3,200.94
			2/23/2017	--	113.42	--	3,200.97
			5/10/2017	--	113.55	--	3,200.84
			11/30/2017	--	113.36	--	3,201.03
			5/11/2018	--	113.26	--	3,201.13
			11/8/2018	--	113.32	--	3,201.07
			4/2/2019	--	113.28	--	3,201.11
			5/15/2019	--	113.30	--	3,201.09
			8/12/2019	--	113.31	--	3,201.08
			9/24/2019	--	113.30	--	3,201.09
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	113.33	--	3,201.06
			1/16/2020	--	113.31	--	3,201.08
			3/26/2020	--	113.33	--	3,201.06
			5/13/2020	--	113.15	--	3,201.24
			9/24/2020	--	113.33	--	3,201.06
			5/3/2021	--	113.25	--	3,201.14
			10/6/2021	--	113.27	--	3,201.12
			5/26/2022	--	113.18	--	3,201.21
			11/9/2022	--	113.16	--	3,201.23
			5/30/2023	--	113.28	--	3,201.11
			11/9/2023	--	113.22	--	3,201.17
			2/8/2024	--	113.21	--	3201.18
			5/22/2024	--	113.2	--	3201.19
			9/5/2024	--	113.33	--	3201.06
			11/19/2024	--	113.25	--	3201.14

Table 2

Summary of Groundwater Elevation Data
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Total Depth (ft bgs)	TOC Elevation	Date Measured	Depth to LNAPL (ft below TOC)	Depth to Water (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
MW-6	128.00	3,314.39	11/1/2013	--	113.95	--	3,200.44
			5/27/2014	--	114.12	--	3,200.27
			6/20/2014	--	114.04	--	3,200.35
			8/11/2014	--	114.10	--	3,200.29
			9/5/2014	--	114.01	--	3,200.38
			12/10/2014	--	113.82	--	3,200.57
			3/2/2015	--	113.66	--	3,200.73
			6/18/2015	--	113.81	--	3,200.58
			10/1/2015	--	113.89	--	3,200.50
			11/24/2015	--	113.77	--	3,200.62
			12/17/2015	--	113.82	--	3,200.57
			1/28/2016	--	113.63	--	3,200.76
			2/24/2016	--	113.62	--	3,200.77
			4/7/2016	--	113.72	--	3,200.67
			5/26/2016	--	113.68	--	3,200.71
			6/30/2016	--	113.71	--	3,200.68
			7/26/2016	--	113.61	--	3,200.78
			9/22/2016	--	113.73	--	3,200.66
			10/5/2016	--	113.76	--	3,200.63
			11/30/2016	--	113.55	--	3,200.84
			2/23/2017	--	114.49	--	3,199.90
			5/10/2017	--	113.66	--	3,200.73
			11/30/2017	--	113.55	--	3,200.84
			5/11/2018	--	113.45	--	3,200.94
			11/8/2018	--	113.42	--	3,200.97
			4/2/2019	--	113.39	--	3,201.00
			5/15/2019	--	113.41	--	3,200.98
			8/12/2019	--	113.40	--	3,200.99
			9/24/2019	--	113.40	--	3,200.99
			11/11/2019	Electronic Field Data Lost			
			12/3/2019	--	113.42	--	3,200.97
			1/16/2020	--	113.42	--	3,200.97
			3/26/2020	--	113.43	--	3,200.96
			5/13/2020	--	113.26	--	3,201.13
			9/24/2020	--	113.43	--	3,200.96
			5/3/2021	--	113.34	--	3,201.05
			10/6/2021	--	113.35	--	3,201.04
			5/26/2022	--	113.16	--	3,201.23
			11/9/2022	--	113.27	--	3,201.12
			5/30/2023	--	113.43	--	3,200.96
			11/9/2023	--	113.37	--	3,201.02
			2/8/2024	--	113.36	--	3201.03
			5/22/2024	--	113.32	--	3201.07
			9/5/2024	--	113.46	--	3200.93
			11/19/2024	--	113.59	--	3200.8

Notes:
1) Well casing elevations from survey conducted by Asel Surveying on April 22, 2015.
2) ft bgs = feet below ground surface.
3) TOC = top of casing.
4) ft AMSL = feet above mean sea level.
5) LNAPL = light non-aqueous phase liquids.
6) -- = not applicable or not measured.
7) A specific gravity value of 0.75 was used to calculate the groundwater elevation wells where LNAPL was present.

Summary of Groundwater Quality Field Parameters
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
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Well ID	Date	Temperature (°C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
RW-1	10/1/2015	22.23	6.79	1,070	7.87	-159.90
	4/7/2016	21.20	7.17	1,260	0.08	-149.80
	10/5/2016	23.43	7.21	1,340	2.71	-177.00
	5/10/2017	20.08	6.88	1,080	0.31	-170.80
	11/30/2017	19.55	8.14	1,500	2.39	-168.00
	5/11/2018	--	7.09	1,140	--	-258.50
	11/8/2018	18.96	7.10	1,790	1.03	-149.20
	5/15/2019	19.55	6.50	1,530	1.84	-140.30
	5/13/2020	21.40	6.95	1,780	0.95	-163.00
	9/24/2020	21.03	7.12	2,070	0.14	-117.20
	5/4/2021	22.17	7.09	91,000	0.39	-79.80
	10/6/2021	21.73	7.03	903.10	0.01	-191.40
	5/26/2022	23.43	6.73	873.43	1.86	36.60
	11/8/2022	24.22	6.54	1,040	3.58	141.60
	5/30/2023	23.26	6.37	0.39	-45.65	931.90
	11/8/2023	25.34	4.17	2.02	132.00	839.53
	5/22/2024	24.91	4.84	1,052	2.60	-60.49
	11/20/2024	16.77	6.76	4.40	5.31	0.38
MW-1	Not sampled since October 2013 due to presence of LNAPL.					
MW-2	6/20/2014	--	--	--	--	--
	9/23/2014	--	--	--	--	--
	12/10/2014	22.30	7.33	825.00	6.80	7.33
	3/2/2015	--	--	--	--	--
	6/16/2015	24.00	7.23	913.00	913.00	88.20
	10/1/2015	21.12	7.13	947.00	7.47	112.20
	4/7/2016	21.10	7.23	930.00	6.51	99.30
	10/5/2016	23.14	7.01	1,050	6.68	215.00
	5/10/2017	20.13	6.93	1,010	7.11	-20.30
	11/30/2017	19.45	7.59	1,280	4.08	-48.90
	5/11/2018	--	6.74	955.00	--	-95.80
	11/8/2018	17.94	7.30	974.00	--	-32.00
	5/15/2019	18.54	6.88	841.00	5.11	-38.90
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	19.90	6.96	1,000	4.11	69.20
	9/24/2020	21.98	7.19	947.30	5.14	76.90
	5/4/2021	22.00	7.29	45,500	2.50	29.80
	10/6/2021	21.55	7.39	553.40	3.02	33.50
	5/26/2022	23.70	7.01	762.59	2.36	199.10
	11/8/2022	23.03	6.70	984.68	2.68	270.90
	5/30/2023	27.87	7.27	6.48	129.52	833.36
	11/8/2023	24.97	6.74	6.83	224.80	835.71
	5/21/2024	24.19	5.58	846.40	5.91	48.49
	11/20/2024	19.18	5.45	3.56	8.21	11.80

Summary of Groundwater Quality Field Parameters
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Date	Temperature (°C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-3	6/20/2014	--	--	--	--	--
	9/23/2014	--	--	--	--	--
	12/10/2014	22.50	6.86	1,170	0.20	-105.20
	3/2/2015	--	--	--	--	--
	6/16/2015	24.90	7.26	1,070	0.10	-190.90
	10/1/2015	21.67	6.90	1,010	1.27	-48.70
	4/11/2016	21.50	7.15	890.00	1.40	9.10
	10/5/2016	23.56	7.07	968.00	3.39	47.00
	5/10/2017	20.76	7.12	787.00	1.67	-115.80
	11/30/2017	20.01	7.68	1,030	1.82	-135.10
	5/11/2018	--	6.64	927.00	--	-160.00
	11/8/2018	18.12	6.95	1,200	--	-64.10
	5/15/2019	19.06	6.50	932.00	3.97	-89.80
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	21.20	7.05	1,100	0.80	-13.00
	9/24/2020	22.41	6.98	1,060	1.54	-53.90
	5/4/2021	21.88	6.99	53,300	0.13	-42.20
	10/6/2021	22.16	7.29	517.00	1.41	-95.70
	5/26/2022	24.14	7.59	610.79	0.22	96.70
	11/8/2022	21.93	6.97	767.61	0.27	178.10
	5/30/2023	24.83	7.11	3.26	31.42	820.78
	11/8/2023	27.39	5.75	4.27	130.60	859.63
	5/22/2024	24.47	5.48	661.46	2.92	16.97
	11/20/2024	23.48	7.29	5.86	6.93	5.75
MW-4	6/20/2014	--	--	--	--	--
	9/22/2014	--	--	--	--	--
	12/10/2014	21.40	7.18	810.00	6.04	7.18
	3/3/2015	22.00	7.13	892.00	6.60	7.13
	6/16/2015	23.70	7.32	844.00	7.26	7.32
	10/1/2015	20.79	7.13	842.00	6.91	96.30
	4/7/2016	20.90	7.18	850.00	5.54	69.50
	10/5/2016	22.93	7.10	985.00	6.50	223.00
	5/10/2017	19.94	7.24	846.00	6.36	-71.10
	11/30/2017	18.97	7.49	1,090	2.76	-40.90
	5/11/2018	--	6.75	759.00	--	-131.70
	11/8/2018	17.87	7.29	805.00	--	-50.60
	5/15/2019	18.64	6.91	677.00	6.63	-3.10
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	20.30	7.29	710.00	4.15	60.30
	9/24/2020	21.66	7.46	658.90	6.16	68.70
	5/4/2021	21.55	7.52	33,300	5.97	33.90
	10/6/2021	21.15	7.71	394.40	6.22	30.10
	5/26/2022	23.18	8.16	498.80	7.09	190.20
	11/8/2022	22.30	7.25	601.44	6.54	278.60
	5/30/2023	25.85	7.27	6.97	129.33	600.08
	11/8/2023	23.51	6.64	8.33	193.40	665.62
	5/21/2024	23.44	5.74	736.77	6.39	44.78
	11/20/2024	26.66	4.28	0.00*	7.27	8.37

Summary of Groundwater Quality Field Parameters
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Date	Temperature (°C)	pH	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)
MW-5	6/20/2014	--	--	--	--	--
	9/22/2014	--	--	--	--	--
	12/10/2014	23.00	6.79	1,490	0.16	-123.50
	3/3/2015	22.20	6.79	1,690	0.21	-70.30
	6/16/2015	23.40	7.02	1,200	0.17	-90.20
	10/1/2015	21.18	7.03	1,140	1.34	-113.70
	4/7/2016	21.20	7.44	890.00	0.49	-73.00
	10/5/2016	23.16	7.36	979.00	3.62	-69.00
	5/10/2017	19.97	7.23	835.00	2.20	-13.30
	11/30/2017	19.29	7.65	1,610	2.48	-152.90
	5/11/2018	--	7.09	1,140	--	-88.50
	11/8/2018	18.30	7.14	1,060	2.20	-63.80
	5/15/2019	19.11	6.88	801.00	5.84	-61.20
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	20.70	7.16	850.00	0.89	20.90
	9/24/2020	21.90	7.34	807.50	1.33	-31.40
	5/4/2021	22.45	7.51	37,700	0.27	-31.10
	10/6/2021	22.00	7.57	487.40	0.86	-61.80
	5/26/2022	23.21	7.44	620.05	0.44	126.30
	11/8/2022	23.18	6.91	913.20	0.88	194.90
	5/30/2023	23.12	5.58	0.12	131.54	1,357
	11/8/2023	26.52	6.44	6.36	141.70	1,718
	5/22/2024	26.15	5.65	1,726	2.59	6.83
	11/20/2024	22.16	7.62	8.68	6.77	14.66
MW-6	6/20/2014	--	--	--	--	--
	9/22/2014	--	--	--	--	--
	12/10/2014	23.00	7.13	655.00	4.23	7.13
	3/3/2015	23.80	7.17	709.00	5.48	7.17
	6/16/2015	24.40	7.23	697.00	4.92	7.23
	10/1/2015	21.29	7.02	708.00	6.29	52.90
	4/7/2016	21.90	7.15	660.00	3.39	71.00
	10/5/2016	23.35	7.25	753.00	4.87	142.00
	5/10/2017	20.60	7.08	656.00	4.01	-93.80
	11/30/2017	19.58	7.87	911.00	3.62	-97.40
	5/11/2018	--	6.91	835.00	--	-65.10
	11/8/2018	17.99	7.29	882.00	3.92	-58.40
	5/15/2019	19.10	6.71	806.00	3.22	-44.90
	11/11/2019	Electronic Field Data Lost				
	5/13/2020	21.10	6.85	1,070	1.15	-14.00
	9/24/2020	22.09	7.06	891.40	0.94	-0.20
	5/4/2021	23.03	7.24	41,100	0.32	10.60
	10/6/2021	21.73	7.03	903.10	0.01	-191.40
	5/26/2022	23.84	7.00	792.63	0.30	132.20
	11/8/2022	24.38	6.66	990.44	0.49	248.30
	5/30/2023	27.99	6.13	0.43	114.11	954.61
	11/8/2023	25.78	6.09	6.53	179.10	886.71
	5/22/2024	24.69	5.89	976.76	2.53	26.14
	11/20/2024	23.22	6.85	4.03	4.88	15.03

Notes:
ºC - degrees Celsius.
µS/cm - microsiemens per centimeter
mg/L - milligrams per liter.
-- = not measured or not recorded.
mV - millivolts.
DO - dissolved oxygen.
ORP - oxidation reduction potential.
* - erroneous data - probe malfunction.

Table 4

Summary of Groundwater Analytical Results
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
NMWQCC Groundwater Quality Standards:		0.01	1.00	0.70	0.62	250	1,000
RW-1	10/1/2015	**1.00**	0.470	0.0260	0.200	**320**	**1,110**
	4/7/2016	**0.12**	0.110	0.0120	0.110	**290**	**1,070**
	10/5/2016	**0.57**	0.0200	0.00990	0.0930	200	950
	5/10/2017	**0.15**	0.0250	0.0110	0.0350	180	920
	11/30/2017	**0.0076**	0.00690	0.00180	0.00990	140	610
	5/11/2018	**1.30**	0.390	0.0250	0.530	100	540
	11/8/2018	**0.360**	0.0130	0.00670	0.0300	**250**	910
	5/15/2019	**1.50**	0.0770	0.0270	0.140	**280**	980
	11/11/2019	**0.680**	0.0720	0.0210	0.110	**250**	940
	5/13/2020	**1.50**	0.100	0.00500	0.160	**360**	**1,030**
	9/24/2020	**0.540**	0.0590	0.0280	0.0410	**500**	**1,460**
	5/4/2021	**0.860**	<0.00500	0.0270	0.0150	**310**	**1,150**
	10/6/2021	**1.30**	0.200	0.0490	0.170	240	940
	5/26/2022	**0.025**	<0.00100	<0.00100	<0.00150	140	606
	11/9/2022	**1.10**	0.330	0.0250	0.250	120	660
	5/30/2023	**0.8**	0.1	0.018	0.15	128	578
	11/8/2023	**0.38**	0.06	0.016	0.033	90.8	460
	5/22/2024	**0.20**	<0.025	<0.025	<0.075	125	564
	11/20/2024	**0.26**	0.0087	0.0035	0.0083	66.2	756
MW-1	2/24/2013	**4.91**	**6.21**	**0.798**	**2.24**	57.1	650
	10/1/2015	Not Sampled - LNAPL					
	4/7/2016	Not Sampled - LNAPL					
	10/5/2016	Not Sampled - LNAPL					
	5/10/2017	Not Sampled - LNAPL					
	11/30/2017	Not Sampled - LNAPL					
	5/11/2018	Not Sampled - LNAPL					
	11/8/2018	Not Sampled - LNAPL					
	5/15/2019	Not Sampled - LNAPL					
	11/11/2019	Not Sampled - LNAPL					
	5/13/2020	Not Sampled - LNAPL					
	9/24/2020	Not Sampled - LNAPL					
	5/4/2021	Not Sampled - LNAPL					
	10/6/2021	Not Sampled - LNAPL					
	5/26/2022	Not Sampled - LNAPL					
	11/9/2022	Not Sampled - LNAPL					
	5/30/2023	Not Sampled - LNAPL					
	11/8/2023	Not Sampled - LNAPL					
	5/22/2024	Not Sampled - LNAPL					
	11/20/2024	Not Sampled - LNAPL					
MW-2	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	12/10/2014	<0.000190	<0.000180	<0.000160	<0.000510	--	--
	3/2/2015	<0.000190	<0.000180	<0.000160	<0.000510	--	--
	6/16/2015	<0.000190	<0.000180	<0.000160	<0.000510	--	--
	10/1/2015	<0.00200	<0.00200	<0.00200	<0.00300	65	690
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	60	910
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	57	680
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	62	685
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	33	465
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	59	632
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	61	720
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	62	612
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	62	656
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	65	640
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	70	650
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	61	604
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	61	610
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	64	626
	11/10/2022	<0.00100	<0.00100	<0.00100	<0.00150	61	637
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	64.4	536
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	59.2	546
	5/21/2024	<0.0010	<0.0010	<0.0010	<0.0030	49.8	444
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0030	52.6	422

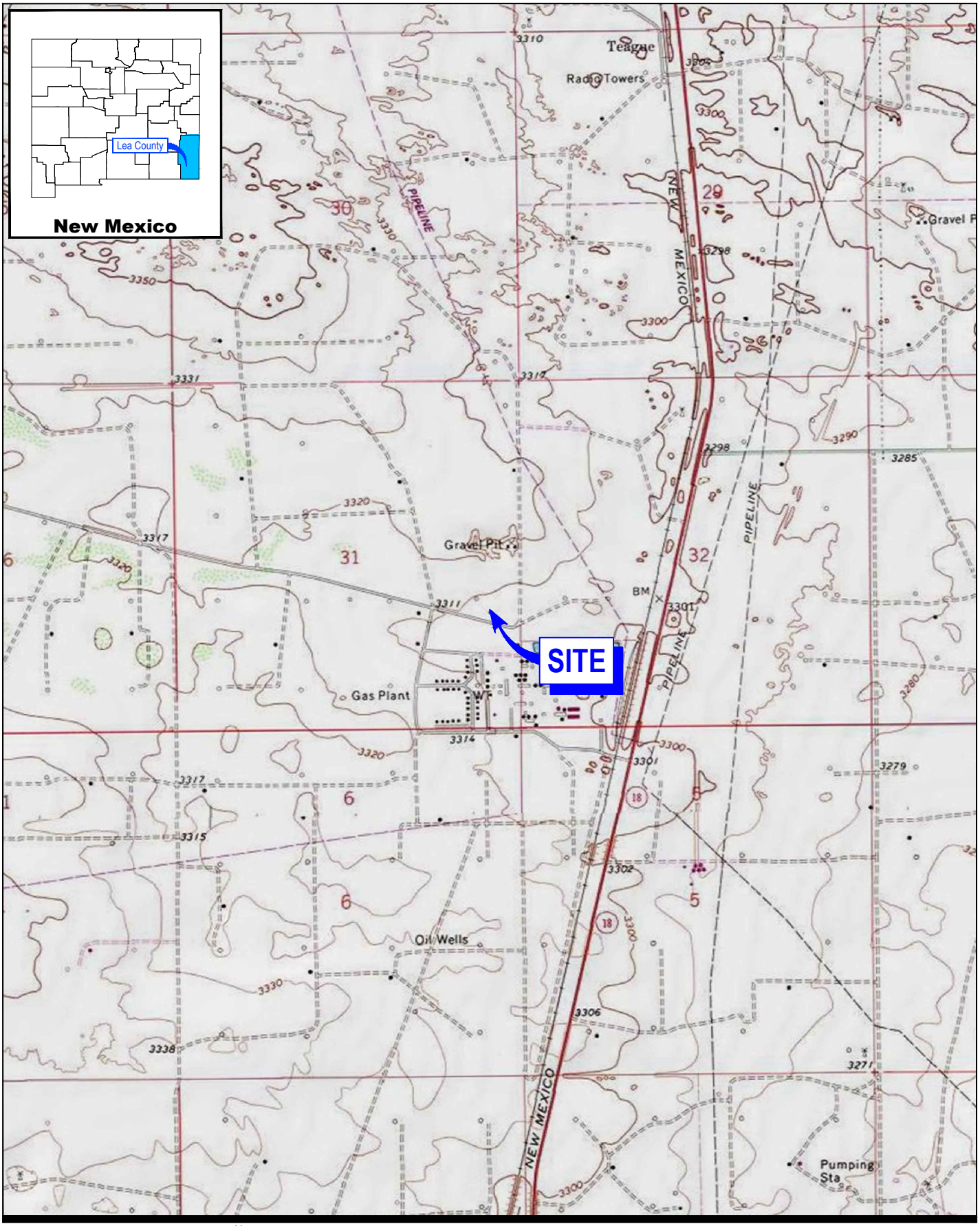
Summary of Groundwater Analytical Results
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
MW-3	6/20/2014	<0.00100	<0.00100	<0.00100	0.0398	--	--
	9/23/2014	<0.00100	<0.00100	<0.00100	0.204	--	--
	12/10/2014	0.000660	0.000350 J	0.000180 J	0.0120	--	--
	3/2/2015	0.000700 J	0.000670 J	0.000290 J	0.0231 J	--	--
	6/16/2015	0.000673	<0.000180	<0.000160	0.00282	--	--
	10/1/2015	<0.00200	<0.00200	<0.00200	<0.00300	120	920
	4/11/2016	<0.00100	<0.00100	<0.00100	<0.00150	79	530
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	64	580
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	50	630
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	49	640
	5/11/2018	<0.00100	<0.00100	<0.00100	0.00750	72	602
	11/8/2018	<0.00100	<0.00100	<0.00100	0.0200	100	790
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	92	700
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	75	665
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	88	650
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	88	682
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	63	652
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	50	535
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	52	506
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	49	494
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	68.0	550
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	50.7	654
	5/22/2024	<0.0010	<0.0010	<0.0010	<0.0030	34.6	352
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0030	43.6	398
MW-4	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/22/2014	<0.00100	<0.00100	<0.00100	0.00310	--	--
	12/10/2014	<0.000190	0.000200 J	<0.000160	<0.000510	--	--
	3/3/2015	<0.000190	<0.000180	<0.000160	<0.000510	70	560
	6/16/2015	<0.000190	0.000197 J	<0.000160	<0.000510	--	--
	10/1/2015	<0.00200	<0.00200	<0.00200	<0.00300	69	560
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	71	680
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	79	600
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	71	620
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	63	510
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	60	526
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	56	520
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	55	500
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	52	482
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	50	464
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	52	502
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	44	445
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	42	390
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	43	422
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	41	420
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	48.5	400
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	48.2	234
	5/21/2024	<0.0010	<0.0010	<0.0010	<0.0030	45.6	382
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0030	50.7	394

Summary of Groundwater Analytical Results
Jal No. 4 Former Tank Battery
Lea County, New Mexico
ET Gathering & Processing LLC
NMOCD 1RP-1457

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Chloride	TDS
MW-5	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/22/2014	<0.00100	<0.00100	<0.00100	0.00140	--	--
	12/10/2014	**0.0160**	0.000190 J	0.000200 J	0.000860 J	--	--
	3/3/2015	0.00430	<0.000180	<0.000160	0.000750 J	230	930
	6/16/2015	0.000503	0.000262 J	<0.0001600	0.000521 J	--	--
	10/1/2015	0.00370	<0.00100	<0.00100	<0.00150	140	355
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	95	615
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	70	516
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	81	486
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	120	650
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	170	712
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	130	585
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	150	644
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	130	628
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	78	532
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	87	495
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	67	462
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	77	512
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	82	486
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	110	578
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	235	900
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	214	944
	5/22/2024	<0.0010	<0.0010	<0.0010	<0.0030	186	940
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0030	212	440
MW-6	6/20/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	9/22/2014	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	12/10/2014	<0.000190	0.00200 J	<0.000160	<0.000510	--	--
	3/3/2015	<0.000190	<0.000180	<0.000160	<0.000510	56	430
	6/16/2015	<0.000190	0.000229 J	<0.000160	<0.000510	--	--
	10/1/2015	<0.00100	<0.00100	<0.00100	<0.00150	68	520
	4/7/2016	<0.00100	<0.00100	<0.00100	<0.00150	58	476
	10/5/2016	<0.00100	<0.00100	<0.00100	<0.00150	52	460
	5/10/2017	<0.00100	<0.00100	<0.00100	<0.00150	59	464
	11/30/2017	<0.00100	<0.00100	<0.00100	<0.00150	63	444
	5/11/2018	<0.00100	<0.00100	<0.00100	<0.00150	51	320
	11/8/2018	<0.00100	<0.00100	<0.00100	<0.00150	100	550
	5/15/2019	<0.00100	<0.00100	<0.00100	<0.00150	88	576
	11/11/2019	<0.00100	<0.00100	<0.00100	<0.00150	84	620
	5/13/2020	<0.00100	<0.00100	<0.00100	<0.00150	95	644
	9/24/2020	<0.00100	<0.00100	<0.00100	<0.00150	92	598
	5/4/2021	<0.00100	<0.00100	<0.00100	<0.00150	72	533
	10/6/2021	<0.00100	<0.00100	<0.00100	<0.00150	72	522
	5/26/2022	<0.00100	<0.00100	<0.00100	<0.00150	110	608
	11/9/2022	<0.00100	<0.00100	<0.00100	<0.00150	100	660
	5/30/2023	<0.0010	<0.0010	<0.0010	<0.0010	91.3	580
	11/8/2023	<0.0010	<0.0010	<0.0010	<0.0010	78.1	518
	5/22/2024	<0.0010	<0.0010	<0.0010	<0.0030	76.6	498
	11/20/2024	<0.0010	<0.0010	<0.0010	<0.0030	96.3	620

Notes:
1) Analytical results are presented in milligrams per liter (mg/L).
2) TDS - total dissolved solids.
3) NMWQCC = New Mexico Water Quality Control Commission.
4) < - Analyte was not detected at or above the laboratory reporting limit.
5) -- = not analyzed.
6) Shaded/bolded results exceed their respective NMWQCC groundwater quality standard.



0 1000 2000 ft

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

N

GHD

ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

Project No. **12659480**
Date **March 2025**

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Dallas\Projects\562\12659480\Digital_Design\ACAD\Figures\RPT001\12659480-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 17 March 2025 3:07 PM

Data Source: USGS 7.5 Minute quad "Rattlesnake Canyon and JAL NW, New Mexico"
Lat/Long: 32.258541° North, 103.195023° West

GHD

ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

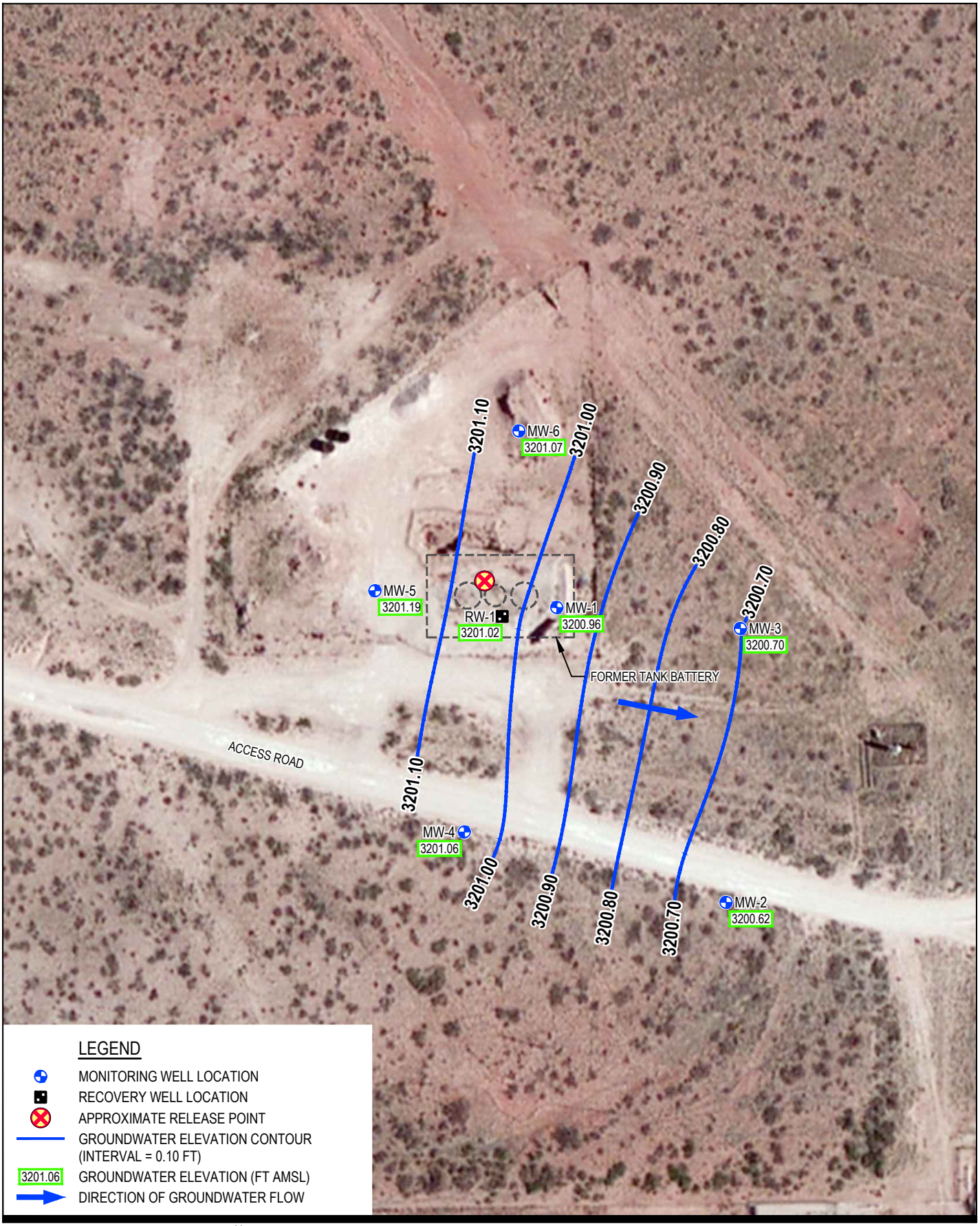
Project No. **12659480**
Date **March 2025**

SITE DETAILS MAP

FIGURE 2

Filename: \\ghdnet\ghd\US\Dallas\Projects\562\12659480\Digital_Design\ACAD\Figures\RPT001\12659480-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 17 March 2025 3:06 PM

Data Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.258541° North, 103.195023° West



LEGEND

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- APPROXIMATE RELEASE POINT
- GROUNDWATER ELEVATION CONTOUR (INTERVAL = 0.10 FT)
- 3201.06 GROUNDWATER ELEVATION (FT AMSL)
- DIRECTION OF GROUNDWATER FLOW

0 50 100 ft

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

N

GHD

ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

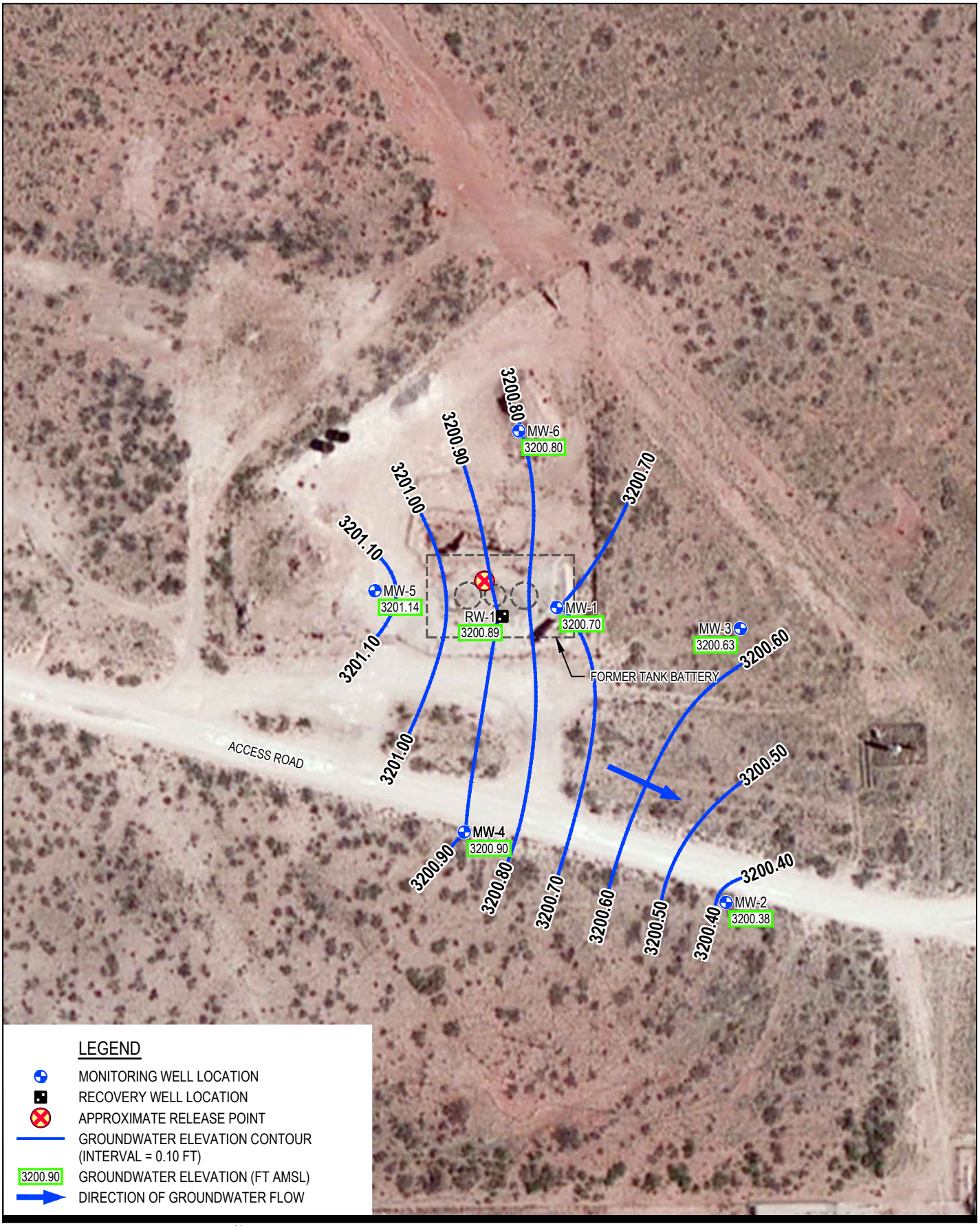
POTENTIOMETRIC SURFACE MAP
(MAY 2024)

Project No. **12659480**
Date **March 2025**

FIGURE 3

Filename: \\ghdnet\ghd\US\Dallas\Projects\562\12659480\Digital_Design\ACAD\Figures\RPT001\12659480-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 17 March 2025 3:06 PM

Data Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.258541° North, 103.195023° West



ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

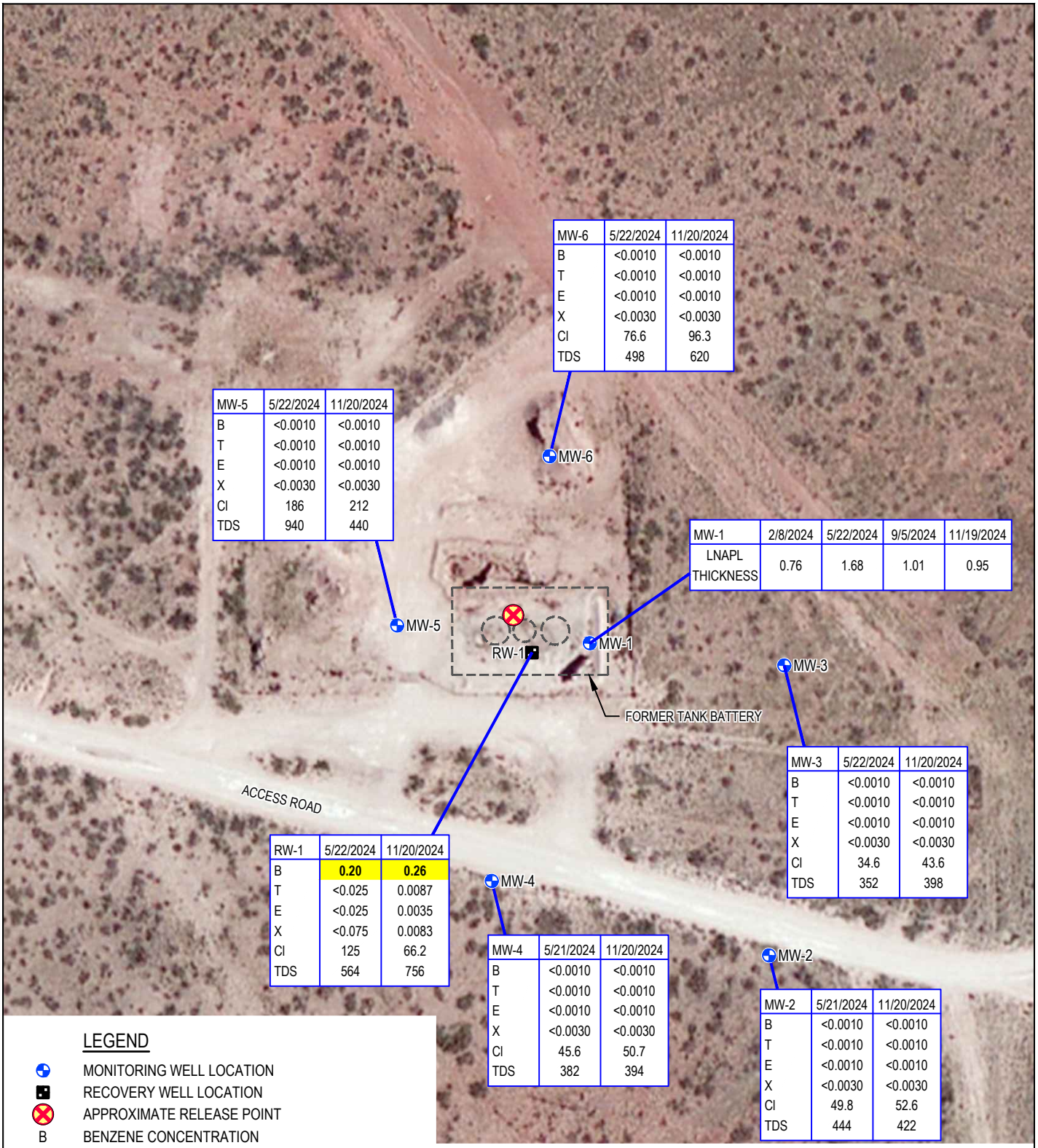
POTENTIOMETRIC SURFACE MAP (NOVEMBER 2024)

Project No. **12659480**
Date **March 2025**

FIGURE 4

Filename: \\ghdnet\ghd\US\Dallas\Projects\562\12659480\Digital_Design\ACAD\Figures\RPT001\12659480-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 17 March 2025 3:05 PM

Data Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.258541° North, 103.195023° West



MW-6	5/22/2024	11/20/2024
B	<0.0010	<0.0010
T	<0.0010	<0.0010
E	<0.0010	<0.0010
X	<0.0030	<0.0030
Cl	76.6	96.3
TDS	498	620

MW-5	5/22/2024	11/20/2024
B	<0.0010	<0.0010
T	<0.0010	<0.0010
E	<0.0010	<0.0010
X	<0.0030	<0.0030
Cl	186	212
TDS	940	440

MW-1	2/8/2024	5/22/2024	9/5/2024	11/19/2024
LNAPL THICKNESS	0.76	1.68	1.01	0.95

RW-1	5/22/2024	11/20/2024
B	**0.20**	**0.26**
T	<0.025	0.0087
E	<0.025	0.0035
X	<0.075	0.0083
Cl	125	66.2
TDS	564	756

MW-3	5/22/2024	11/20/2024
B	<0.0010	<0.0010
T	<0.0010	<0.0010
E	<0.0010	<0.0010
X	<0.0030	<0.0030
Cl	34.6	43.6
TDS	352	398

MW-4	5/21/2024	11/20/2024
B	<0.0010	<0.0010
T	<0.0010	<0.0010
E	<0.0010	<0.0010
X	<0.0030	<0.0030
Cl	45.6	50.7
TDS	382	394

MW-2	5/21/2024	11/20/2024
B	<0.0010	<0.0010
T	<0.0010	<0.0010
E	<0.0010	<0.0010
X	<0.0030	<0.0030
Cl	49.8	52.6
TDS	444	422

LEGEND

	MONITORING WELL LOCATION
	RECOVERY WELL LOCATION
	APPROXIMATE RELEASE POINT
B	BENZENE CONCENTRATION
T	TOLUENE CONCENTRATION
E	ETHYLBENZENE CONCENTRATION
X	XYLENES CONCENTRATION
Cl	CHLORIDE CONCENTRATION
TDS	TOTAL DISSOLVED SOLIDS CONCENTRATION
LNAPL	LIGHT NON-AQUEOUS PHASE LIQUIDS

NOTES:

1. GROUNDWATER CONCENTRATION PRESENTED IN MILLIGRAMS PER LITER (mg/L).
2. LNAPL THICKNESS PRESENTED IN FEET (ft).
3. SHADED CELLS INDICATE EXCEEDANCE OF THE RESPECTIVE NMWQCC STANDARD.
4. GROUNDWATER SAMPLES WERE NOT COLLECTED FROM MW-1 DUE TO THE PRESENCE OF LNAPL.

0 50 100 ft

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

N

GHD

ET GATHERING & PROCESSING, LLC
LEA COUNTY, NEW MEXICO
JAL NO. 4 FORMER TANK BATTERY
NMOCD 1RP-1457

COC CONCENTRATIONS IN GROUNDWATER AND LNAPL THICKNESS MAP (2024)

Project No. **12659480**
Date **March 2025**

FIGURE 5

Filename: \\ghdnet\ghd\US\Dallas\Projects\562\12659480\Digital_Design\ACAD\Figures\RPT001\12659480-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 31 March 2025 11:29 AM

Data Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.258541° North, 103.195023° West

Appendices

Appendix A

Laboratory Analytical Reports

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

June 07, 2024

Blair Owen
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS24051623**

Laboratory Results for: **12603939 - Jal No. 4**

Dear Blair Owen,

ALS Environmental received 8 sample(s) on May 23, 2024 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: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Work Order: HS24051623

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24051623-01	MW-2-20240521	Groundwater		21-May-2024 15:50	23-May-2024 09:30	☐
HS24051623-02	MW-3-20240522	Groundwater		22-May-2024 10:20	23-May-2024 09:30	☐
HS24051623-03	MW-4-20240521	Groundwater		21-May-2024 17:30	23-May-2024 09:30	☐
HS24051623-04	MW-5-20240522	Groundwater		22-May-2024 11:45	23-May-2024 09:30	☐
HS24051623-05	MW-6-20240522	Groundwater		22-May-2024 13:10	23-May-2024 09:30	☐
HS24051623-06	RW-1-20240522	Groundwater		22-May-2024 14:15	23-May-2024 09:30	☐
HS24051623-07	DUP-01	Groundwater		22-May-2024 00:00	23-May-2024 09:30	☐
HS24051623-08	12603939-TB01-	Water	VBLK-051524-09	22-May-2024 00:00	23-May-2024 09:30	☐

ALS Houston, US Date: 07-Jun-24

Client: GHD **CASE NARRATIVE**
Project: 12603939 - Jal No. 4
Work Order: HS24051623

GCMS Volatiles by Method SW8260

Batch ID: R468382

Sample ID: RW-1-20240522 (HS24051623-06)

- Lowest practical dilution due to sample matrix and/or high concentration of target/non-target analytes(s)

Batch ID: R468378

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R468729

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R467822

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-2-20240521
Collection Date: 21-May-2024 15:50

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene	U		0.0010	mg/L	1	03-Jun-2024 15:15
Ethylbenzene	U		0.0010	mg/L	1	03-Jun-2024 15:15
Toluene	U		0.0010	mg/L	1	03-Jun-2024 15:15
Xylenes, Total	U		0.0030	mg/L	1	03-Jun-2024 15:15
Surr: 1,2-Dichloroethane-d4	*98.3*		*70-126*	*%REC*	*1*	*03-Jun-2024 15:15*
Surr: 4-Bromofluorobenzene	*98.2*		*77-113*	*%REC*	*1*	*03-Jun-2024 15:15*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*03-Jun-2024 15:15*
Surr: Toluene-d8	*98.5*		*82-127*	*%REC*	*1*	*03-Jun-2024 15:15*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**49.8**		**0.500**	**mg/L**	1	06-Jun-2024 13:05
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**444**		**10.0**	**mg/L**	1	28-May-2024 08:30

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-3-20240522
Collection Date: 22-May-2024 10:20

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene	U		0.0010	mg/L	1	04-Jun-2024 03:56
Ethylbenzene	U		0.0010	mg/L	1	04-Jun-2024 03:56
Toluene	U		0.0010	mg/L	1	04-Jun-2024 03:56
Xylenes, Total	U		0.0030	mg/L	1	04-Jun-2024 03:56
Surr: 1,2-Dichloroethane-d4	*100*		*70-126*	*%REC*	*1*	*04-Jun-2024 03:56*
Surr: 4-Bromofluorobenzene	*95.8*		*77-113*	*%REC*	*1*	*04-Jun-2024 03:56*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*04-Jun-2024 03:56*
Surr: Toluene-d8	*98.3*		*82-127*	*%REC*	*1*	*04-Jun-2024 03:56*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**34.6**		**0.500**	**mg/L**	1	06-Jun-2024 13:23
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**352**		**10.0**	**mg/L**	1	28-May-2024 08:30

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-4-20240521
Collection Date: 21-May-2024 17:30

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene	U		0.0010	mg/L	1	03-Jun-2024 15:38
Ethylbenzene	U		0.0010	mg/L	1	03-Jun-2024 15:38
Toluene	U		0.0010	mg/L	1	03-Jun-2024 15:38
Xylenes, Total	U		0.0030	mg/L	1	03-Jun-2024 15:38
Surr: 1,2-Dichloroethane-d4	*99.1*		*70-126*	*%REC*	*1*	*03-Jun-2024 15:38*
Surr: 4-Bromofluorobenzene	*99.0*		*77-113*	*%REC*	*1*	*03-Jun-2024 15:38*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*03-Jun-2024 15:38*
Surr: Toluene-d8	*98.0*		*82-127*	*%REC*	*1*	*03-Jun-2024 15:38*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**45.6**		**0.500**	**mg/L**	1	06-Jun-2024 13:29
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**382**		**10.0**	**mg/L**	1	28-May-2024 08:30

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-5-20240522
Collection Date: 22-May-2024 11:45

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene	U		0.0010	mg/L	1	04-Jun-2024 04:19
Ethylbenzene	U		0.0010	mg/L	1	04-Jun-2024 04:19
Toluene	U		0.0010	mg/L	1	04-Jun-2024 04:19
Xylenes, Total	U		0.0030	mg/L	1	04-Jun-2024 04:19
Surr: 1,2-Dichloroethane-d4	*99.8*		*70-126*	*%REC*	*1*	*04-Jun-2024 04:19*
Surr: 4-Bromofluorobenzene	*99.1*		*77-113*	*%REC*	*1*	*04-Jun-2024 04:19*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*04-Jun-2024 04:19*
Surr: Toluene-d8	*97.4*		*82-127*	*%REC*	*1*	*04-Jun-2024 04:19*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**186**		**2.50**	**mg/L**	5	06-Jun-2024 13:58
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**940**		**10.0**	**mg/L**	1	28-May-2024 08:30

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: MW-6-20240522
Collection Date: 22-May-2024 13:10

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene	U		0.0010	mg/L	1	04-Jun-2024 04:42
Ethylbenzene	U		0.0010	mg/L	1	04-Jun-2024 04:42
Toluene	U		0.0010	mg/L	1	04-Jun-2024 04:42
Xylenes, Total	U		0.0030	mg/L	1	04-Jun-2024 04:42
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*04-Jun-2024 04:42*
Surr: 4-Bromofluorobenzene	*97.9*		*77-113*	*%REC*	*1*	*04-Jun-2024 04:42*
Surr: Dibromofluoromethane	*104*		*77-123*	*%REC*	*1*	*04-Jun-2024 04:42*
Surr: Toluene-d8	*96.6*		*82-127*	*%REC*	*1*	*04-Jun-2024 04:42*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**76.6**		**0.500**	**mg/L**	1	06-Jun-2024 14:04
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**498**		**10.0**	**mg/L**	1	28-May-2024 08:30

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: RW-1-20240522
Collection Date: 22-May-2024 14:15

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene	**0.20**		**0.025**	**mg/L**	25	04-Jun-2024 06:15
Ethylbenzene	U		0.025	mg/L	25	04-Jun-2024 06:15
Toluene	U		0.025	mg/L	25	04-Jun-2024 06:15
Xylenes, Total	U		0.075	mg/L	25	04-Jun-2024 06:15
Surr: 1,2-Dichloroethane-d4	*101*		*70-126*	*%REC*	*25*	*04-Jun-2024 06:15*
Surr: 4-Bromofluorobenzene	*96.1*		*77-113*	*%REC*	*25*	*04-Jun-2024 06:15*
Surr: Dibromofluoromethane	*102*		*77-123*	*%REC*	*25*	*04-Jun-2024 06:15*
Surr: Toluene-d8	*97.4*		*82-127*	*%REC*	*25*	*04-Jun-2024 06:15*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**125**		**1.00**	**mg/L**	2	06-Jun-2024 14:57
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**564**		**10.0**	**mg/L**	1	28-May-2024 08:30

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: DUP-01
Collection Date: 22-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene	U		0.0010	mg/L	1	04-Jun-2024 05:05
Ethylbenzene	U		0.0010	mg/L	1	04-Jun-2024 05:05
Toluene	U		0.0010	mg/L	1	04-Jun-2024 05:05
Xylenes, Total	U		0.0030	mg/L	1	04-Jun-2024 05:05
Surr: 1,2-Dichloroethane-d4	*99.8*		*70-126*	*%REC*	*1*	*04-Jun-2024 05:05*
Surr: 4-Bromofluorobenzene	*96.8*		*77-113*	*%REC*	*1*	*04-Jun-2024 05:05*
Surr: Dibromofluoromethane	*99.5*		*77-123*	*%REC*	*1*	*04-Jun-2024 05:05*
Surr: Toluene-d8	*96.9*		*82-127*	*%REC*	*1*	*04-Jun-2024 05:05*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**77.1**		**0.500**	**mg/L**	1	06-Jun-2024 14:16
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**542**		**10.0**	**mg/L**	1	28-May-2024 08:30

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
Sample ID: 12603939-TB01-
Collection Date: 22-May-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24051623
Lab ID:HS24051623-08
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: AKP
Benzene		U	0.0010	mg/L	1	03-Jun-2024 23:46
Ethylbenzene		U	0.0010	mg/L	1	03-Jun-2024 23:46
Toluene		U	0.0010	mg/L	1	03-Jun-2024 23:46
Xylenes, Total		U	0.0030	mg/L	1	03-Jun-2024 23:46
Surr: 1,2-Dichloroethane-d4	*96.5*		*70-126*	*%REC*	*1*	*03-Jun-2024 23:46*
Surr: 4-Bromofluorobenzene	*98.7*		*77-113*	*%REC*	*1*	*03-Jun-2024 23:46*
Surr: Dibromofluoromethane	*99.1*		*77-123*	*%REC*	*1*	*03-Jun-2024 23:46*
Surr: Toluene-d8	*98.5*		*82-127*	*%REC*	*1*	*03-Jun-2024 23:46*

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

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS24051623

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R467822 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Groundwater	
HS24051623-01	MW-2-20240521	21 May 2024 15:50			28 May 2024 08:30	1
HS24051623-02	MW-3-20240522	22 May 2024 10:20			28 May 2024 08:30	1
HS24051623-03	MW-4-20240521	21 May 2024 17:30			28 May 2024 08:30	1
HS24051623-04	MW-5-20240522	22 May 2024 11:45			28 May 2024 08:30	1
HS24051623-05	MW-6-20240522	22 May 2024 13:10			28 May 2024 08:30	1
HS24051623-06	RW-1-20240522	22 May 2024 14:15			28 May 2024 08:30	1
HS24051623-07	DUP-01	22 May 2024 00:00			28 May 2024 08:30	1
Batch ID: R468378 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24051623-01	MW-2-20240521	21 May 2024 15:50			03 Jun 2024 15:15	1
HS24051623-03	MW-4-20240521	21 May 2024 17:30			03 Jun 2024 15:38	1
Batch ID: R468382 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS24051623-08	12603939-TB01-	22 May 2024 00:00			03 Jun 2024 23:46	1
Batch ID: R468382 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS24051623-02	MW-3-20240522	22 May 2024 10:20			04 Jun 2024 03:56	1
HS24051623-04	MW-5-20240522	22 May 2024 11:45			04 Jun 2024 04:19	1
HS24051623-05	MW-6-20240522	22 May 2024 13:10			04 Jun 2024 04:42	1
HS24051623-06	RW-1-20240522	22 May 2024 14:15			04 Jun 2024 06:15	25
HS24051623-07	DUP-01	22 May 2024 00:00			04 Jun 2024 05:05	1
Batch ID: R468729 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Groundwater	
HS24051623-01	MW-2-20240521	21 May 2024 15:50			06 Jun 2024 13:05	1
HS24051623-02	MW-3-20240522	22 May 2024 10:20			06 Jun 2024 13:23	1
HS24051623-03	MW-4-20240521	21 May 2024 17:30			06 Jun 2024 13:29	1
HS24051623-04	MW-5-20240522	22 May 2024 11:45			06 Jun 2024 13:58	5
HS24051623-05	MW-6-20240522	22 May 2024 13:10			06 Jun 2024 14:04	1
HS24051623-06	RW-1-20240522	22 May 2024 14:15			06 Jun 2024 14:57	2
HS24051623-07	DUP-01	22 May 2024 00:00			06 Jun 2024 14:16	1

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS24051623

QC BATCH REPORT

Batch ID: R468378 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK Sample ID: **VBLKW-240603** Units: **ug/L** Analysis Date: **03-Jun-2024 11:12**
Client ID: Run ID: **VOA4_468378** SeqNo: **8045177** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Ethylbenzene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*47.99*	*1.0*	*50*	*0*	*96.0*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.75*	*1.0*	*50*	*0*	*97.5*	*77 - 113*				
Surr: Dibromofluoromethane	*50.49*	*1.0*	*50*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*48.55*	*1.0*	*50*	*0*	*97.1*	*81 - 120*				

LCS Sample ID: **VLCSW-240603** Units: **ug/L** Analysis Date: **03-Jun-2024 10:04**
Client ID: Run ID: **VOA4_468378** SeqNo: **8045175** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.58	1.0	20	0	92.9	74 - 120				
Ethylbenzene	18.93	1.0	20	0	94.6	77 - 117				
Toluene	19.01	1.0	20	0	95.1	77 - 118				
Xylenes, Total	58.15	3.0	60	0	96.9	75 - 122				
Surr: 1,2-Dichloroethane-d4	*48.6*	*1.0*	*50*	*0*	*97.2*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*50.26*	*1.0*	*50*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*50.94*	*1.0*	*50*	*0*	*102*	*73 - 126*				
Surr: Toluene-d8	*49.93*	*1.0*	*50*	*0*	*99.9*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240603** Units: **ug/L** Analysis Date: **03-Jun-2024 10:27**
Client ID: Run ID: **VOA4_468378** SeqNo: **8045176** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.18	1.0	20	0	90.9	74 - 120	18.58	2.15	20	
Ethylbenzene	18.85	1.0	20	0	94.2	77 - 117	18.93	0.431	20	
Toluene	18.37	1.0	20	0	91.8	77 - 118	19.01	3.45	20	
Xylenes, Total	58.65	3.0	60	0	97.7	75 - 122	58.15	0.852	20	
Surr: 1,2-Dichloroethane-d4	*47.89*	*1.0*	*50*	*0*	*95.8*	*70 - 123*	*48.6*	*1.47*	*20*	
Surr: 4-Bromofluorobenzene	*51.23*	*1.0*	*50*	*0*	*102*	*77 - 113*	*50.26*	*1.91*	*20*	
Surr: Dibromofluoromethane	*49.67*	*1.0*	*50*	*0*	*99.3*	*73 - 126*	*50.94*	*2.51*	*20*	
Surr: Toluene-d8	*50.11*	*1.0*	*50*	*0*	*100*	*81 - 120*	*49.93*	*0.352*	*20*	

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS24051623

QC BATCH REPORT

Batch ID: R468378 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS Sample ID: **HS24051623-01MS** Units: **ug/L** Analysis Date: **03-Jun-2024 19:35**
Client ID: **MW-2-20240521** Run ID: **VOA4_468378** SeqNo: **8045198** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.67	1.0	20	0	88.3	70 - 127				
Ethylbenzene	18.38	1.0	20	0	91.9	70 - 124				
Toluene	17.68	1.0	20	0	88.4	70 - 123				
Xylenes, Total	55.07	3.0	60	0	91.8	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.51*	*1.0*	*50*	*0*	*99.0*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.67*	*1.0*	*50*	*0*	*99.3*	*77 - 113*				
Surr: Dibromofluoromethane	*48.83*	*1.0*	*50*	*0*	*97.7*	*77 - 123*				
Surr: Toluene-d8	*49.72*	*1.0*	*50*	*0*	*99.4*	*82 - 127*				

MSD Sample ID: **HS24051623-01MSD** Units: **ug/L** Analysis Date: **03-Jun-2024 19:58**
Client ID: **MW-2-20240521** Run ID: **VOA4_468378** SeqNo: **8045199** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.45	1.0	20	0	82.2	70 - 127	17.67	7.16	20	
Ethylbenzene	16.55	1.0	20	0	82.7	70 - 124	18.38	10.5	20	
Toluene	16.18	1.0	20	0	80.9	70 - 123	17.68	8.87	20	
Xylenes, Total	50.05	3.0	60	0	83.4	70 - 130	55.07	9.55	20	
Surr: 1,2-Dichloroethane-d4	*50.11*	*1.0*	*50*	*0*	*100*	*70 - 126*	*49.51*	*1.19*	*20*	
Surr: 4-Bromofluorobenzene	*49.72*	*1.0*	*50*	*0*	*99.4*	*77 - 113*	*49.67*	*0.0969*	*20*	
Surr: Dibromofluoromethane	*49.12*	*1.0*	*50*	*0*	*98.2*	*77 - 123*	*48.83*	*0.592*	*20*	
Surr: Toluene-d8	*49.72*	*1.0*	*50*	*0*	*99.4*	*82 - 127*	*49.72*	*0*	*20*	

The following samples were analyzed in this batch: HS24051623-01 HS24051623-03

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS24051623

QC BATCH REPORT

Batch ID: R468382 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-240603** Units: **ug/L** Analysis Date: **03-Jun-2024 22:37**
Client ID: Run ID: **VOA4_468382** SeqNo: **8045271** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Ethylbenzene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*47.88*	*1.0*	*50*	*0*	*95.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*48.78*	*1.0*	*50*	*0*	*97.6*	*77 - 113*				
Surr: Dibromofluoromethane	*50.91*	*1.0*	*50*	*0*	*102*	*73 - 126*				
Surr: Toluene-d8	*48.93*	*1.0*	*50*	*0*	*97.9*	*81 - 120*				

LCS Sample ID: **VLCSW-240603** Units: **ug/L** Analysis Date: **03-Jun-2024 21:29**
Client ID: Run ID: **VOA4_468382** SeqNo: **8045269** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.42	1.0	20	0	92.1	74 - 120				
Ethylbenzene	19.58	1.0	20	0	97.9	77 - 117				
Toluene	18.87	1.0	20	0	94.4	77 - 118				
Xylenes, Total	58.77	3.0	60	0	98.0	75 - 122				
Surr: 1,2-Dichloroethane-d4	*48.07*	*1.0*	*50*	*0*	*96.1*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*50.79*	*1.0*	*50*	*0*	*102*	*77 - 113*				
Surr: Dibromofluoromethane	*49.34*	*1.0*	*50*	*0*	*98.7*	*73 - 126*				
Surr: Toluene-d8	*49.57*	*1.0*	*50*	*0*	*99.1*	*81 - 120*				

LCSD Sample ID: **VLCSDW-240603** Units: **ug/L** Analysis Date: **03-Jun-2024 21:52**
Client ID: Run ID: **VOA4_468382** SeqNo: **8045270** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.72	1.0	20	0	88.6	74 - 120	18.42	3.89	20	
Ethylbenzene	18.25	1.0	20	0	91.2	77 - 117	19.58	7.04	20	
Toluene	17.84	1.0	20	0	89.2	77 - 118	18.87	5.65	20	
Xylenes, Total	55.85	3.0	60	0	93.1	75 - 122	58.77	5.1	20	
Surr: 1,2-Dichloroethane-d4	*48.68*	*1.0*	*50*	*0*	*97.4*	*70 - 123*	*48.07*	*1.26*	*20*	
Surr: 4-Bromofluorobenzene	*49.76*	*1.0*	*50*	*0*	*99.5*	*77 - 113*	*50.79*	*2.04*	*20*	
Surr: Dibromofluoromethane	*49.37*	*1.0*	*50*	*0*	*98.7*	*73 - 126*	*49.34*	*0.0642*	*20*	
Surr: Toluene-d8	*50.02*	*1.0*	*50*	*0*	*100*	*81 - 120*	*49.57*	*0.906*	*20*	

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS24051623

QC BATCH REPORT

Batch ID: R468382 (0) **Instrument: VOA4** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24051881-07MS** Units: **ug/L** Analysis Date: **04-Jun-2024 06:38**
Client ID: Run ID: **VOA4_468382** SeqNo: **8045292** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.84	1.0	20	0	89.2	70 - 127				
Ethylbenzene	18.02	1.0	20	0	90.1	70 - 124				
Toluene	18.03	1.0	20	0	90.2	70 - 123				
Xylenes, Total	54.2	3.0	60	0	90.3	70 - 130				
Surr: 1,2-Dichloroethane-d4	*50.14*	*1.0*	*50*	*0*	*100*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.91*	*1.0*	*50*	*0*	*99.8*	*77 - 113*				
Surr: Dibromofluoromethane	*49.9*	*1.0*	*50*	*0*	*99.8*	*77 - 123*				
Surr: Toluene-d8	*50.44*	*1.0*	*50*	*0*	*101*	*82 - 127*				

MSD Sample ID: **HS24051881-07MSD** Units: **ug/L** Analysis Date: **04-Jun-2024 07:01**
Client ID: Run ID: **VOA4_468382** SeqNo: **8045293** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.91	1.0	20	0	89.6	70 - 127	17.84	0.393	20	
Ethylbenzene	17.66	1.0	20	0	88.3	70 - 124	18.02	2.01	20	
Toluene	17.44	1.0	20	0	87.2	70 - 123	18.03	3.33	20	
Xylenes, Total	52.54	3.0	60	0	87.6	70 - 130	54.2	3.11	20	
Surr: 1,2-Dichloroethane-d4	*51.22*	*1.0*	*50*	*0*	*102*	*70 - 126*	*50.14*	*2.12*	*20*	
Surr: 4-Bromofluorobenzene	*49.69*	*1.0*	*50*	*0*	*99.4*	*77 - 113*	*49.91*	*0.433*	*20*	
Surr: Dibromofluoromethane	*51.81*	*1.0*	*50*	*0*	*104*	*77 - 123*	*49.9*	*3.76*	*20*	
Surr: Toluene-d8	*49.63*	*1.0*	*50*	*0*	*99.3*	*82 - 127*	*50.44*	*1.61*	*20*	

The following samples were analyzed in this batch: HS24051623-02 HS24051623-04 HS24051623-05 HS24051623-06 HS24051623-07 HS24051623-08

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS24051623

QC BATCH REPORT

Batch ID: R467822 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WMBLK-05282024** Units: **mg/L** Analysis Date: **28-May-2024 08:30**
Client ID: Run ID: **Balance1_467822** SeqNo: **8033144** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **WLCS-05282024** Units: **mg/L** Analysis Date: **28-May-2024 08:30**
Client ID: Run ID: **Balance1_467822** SeqNo: **8033143** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	916	10.0	1000	0	91.6	85 - 115				

DUP Sample ID: **HS24051429-01 DUP** Units: **mg/L** Analysis Date: **28-May-2024 08:30**
Client ID: Run ID: **Balance1_467822** SeqNo: **8033128** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	360	10.0					364	1.1	20	

DUP Sample ID: **HS24051304-01 DUP** Units: **mg/L** Analysis Date: **28-May-2024 08:30**
Client ID: Run ID: **Balance1_467822** SeqNo: **8033122** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	624	10.0					648	3.77	20	

The following samples were analyzed in this batch:

HS24051623-01	HS24051623-02	HS24051623-03	HS24051623-04
HS24051623-05	HS24051623-06	HS24051623-07	

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: HS24051623

QC BATCH REPORT

Batch ID: R468729 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **06-Jun-2024 12:48**
Client ID: Run ID: **ICS-Integrion_468729** SeqNo: **8052256** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **06-Jun-2024 13:00**
Client ID: Run ID: **ICS-Integrion_468729** SeqNo: **8052257** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.3	0.500	20	0	102	90 - 110				

MS Sample ID: **HS24060301-04MS** Units: **mg/L** Analysis Date: **06-Jun-2024 16:07**
Client ID: Run ID: **ICS-Integrion_468729** SeqNo: **8052283** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1451	10.0	200	1223	114	80 - 120				O

MS Sample ID: **HS24051623-01MS** Units: **mg/L** Analysis Date: **06-Jun-2024 13:11**
Client ID: **MW-2-20240521** Run ID: **ICS-Integrion_468729** SeqNo: **8052259** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	58.66	0.500	10	49.75	89.1	80 - 120				O

MSD Sample ID: **HS24060301-04MSD** Units: **mg/L** Analysis Date: **06-Jun-2024 16:13**
Client ID: Run ID: **ICS-Integrion_468729** SeqNo: **8052284** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1438	10.0	200	1223	107	80 - 120	1451	0.902	20	O

MSD Sample ID: **HS24051623-01MSD** Units: **mg/L** Analysis Date: **06-Jun-2024 13:17**
Client ID: **MW-2-20240521** Run ID: **ICS-Integrion_468729** SeqNo: **8052260** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	58.07	0.500	10	49.75	83.2	80 - 120	58.66	1.01	20	O

The following samples were analyzed in this batch:

HS24051623-01	HS24051623-02	HS24051623-03	HS24051623-04
HS24051623-05	HS24051623-06	HS24051623-07	

ALS Houston, US Date: 07-Jun-24

Client: GHD
Project: 12603939 - Jal No. 4
WorkOrder: **HS24051623**

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 Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US Date: 07-Jun-24

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 07-Jun-24

Sample Receipt Checklist

Work Order ID: HS24051623 **Date/Time Received:** 23-May-2024 09:30

Client Name: GHDHouston **Received by:** Jacob Coronado

Completed By:	/S/ Michael Lucio	25-May-2024 13:57	**Reviewed by:**	/S/ sebastian.lugo	28-May-2024 14:16
	eSignature	Date/Time		eSignature	Date/Time

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:316923
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):	4.1uc/4.2c	IR31	
Cooler(s)/Kit(s):	51223		
Date/Time sample(s) sent to storage:	05/25/2024 13:58		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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

Chain of Custody Form

Page 1 of 1

COC ID: 316923

HS24051623

GHD

12603939 - Jal No. 4

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	E-19001-GL-21300132 Stacy Boul	Project Name	12603939 - Jal No. 4	A	8260_LL_W (8260 BTEX) [3xVOA HCl]
Work Order		Project Number	12603939	B	TDS_W 2540C (2540C TDS) [250ml P Neat-share]
Company Name	GHD	Bill To Company	Energy Transfer	C	300_W (300 Cl) [250ml P Neat-share]
Send Report To	Blair Owen	Invoice Attn	Stacy Boultinghouse	D	TB 8260_LL_W (8260 BTEX) [[3xVOA HCl]
Address	11451 Katy Fwy Suite 400	Address	P.O Box 132400	E	
				F	
City/State/Zip	Houston, TX 77079	City/State/Zip	Dallas TX 75313	G	* no temp blank provided made my own with distilled water
Phone	(713) 734-3090	Phone		H	
Fax	(713) 734-3391	Fax		I	
e-Mail Address	blair.owen@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.com		

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	12603939-TB01-	—	—	Water	1,8	2				X							
2	temp blank (distilled water)	—	—	—	~~8~~	1											
3	MW-2-20240521	5.21.24	15:50	GW	8	4	—	—	—								
4	MW-3-20240522	5.22.24	10:20	GW	8	4	—	—	—								
5	MW-4-20240521	5.21.24	17:30	GW	8	4	—	—	—								
6	MW-5-20240522	5.22.24	11:45	GW	8	4	—	—	—								
7	MW-6-20240522	5.22.24	13:10	GW	8	4	—	—	—								
8	RW-1-20240522	5.22.24	14:15	GW	8	4	—	—	—								
9	DUP-01	5.22.24	—	GW	8	4	—	—	—								
10																	

Sampler(s) Please Print & Sign: Elizabeth Fain

Shipment Method: FedEx Cooler

Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Elizabeth Fain	5.22.24	1630	
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): 5/23/24 0830

Notes: ETC Jal No. 4 Lea County NM

Cooler ID	Cooler Temp.
51222	4.1

QC Package: (Check One Box Below)

☒ Level II Std QC
☐ Level II Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 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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Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page _____ of _____

COC ID: 316924

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	E-19001-GL-21300132 Stacy Boul	Project Name	12603939 - Jal No. 4	A	8260_LL_W (8260 BTEX) [3xVOA HCl]
Work Order		Project Number	12603939	B	TDS_W 2540C (2540C TDS) [250ml P Neat-share]
Company Name	GHD	Bill To Company	Energy Transfer	C	300_W (300 Cl) [250ml P Neat-share]
Send Report To	Blair Owen	Invoice Attn	Stacy Boultinghouse	D	TB 8260_LL_W (8260 BTEX) [[3xVOA HCl]
Address	11451 Katy Fwy Suite 400	Address	P.O Box 132400	E	
				F	
City/State/Zip	Houston, TX 77079	City/State/Zip	Dallas TX 75313	G	
Phone	(713) 734-3090	Phone		H	
Fax	(713) 734-3391	Fax		I	
e-Mail Address	blair.owen@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.com		

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	12603939-TB01-			Water	1,8	2				X							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign

Shipment Method

Required Turnaround Time: (Check Box) ☐ Other _____
☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: ETC Jal No. 4 Lea County NM

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level II Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 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.

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

December 02, 2024

Deedee Whittington
GHDHouston
11451 Katy Freeway
Suite 400
Houston, TX 77079

Work Order: **HS24111434**

Laboratory Results for: **12603939 - Jal No. 4**

Dear Deedee Whittington ,

ALS Environmental received 8 sample(s) on Nov 22, 2024 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,

Alexis Dorenbosch

Generated By: DAYNA.FISHER
Alexis Dorenbosch

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Work Order: HS24111434

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24111434-01	12603939-TB01	Water	CG-082224-69	20-Nov-2024 00:00	22-Nov-2024 09:00	☐
HS24111434-02	MW-2-20241120	Water		20-Nov-2024 11:00	22-Nov-2024 09:00	☐
HS24111434-03	MW-3-20241120	Water		20-Nov-2024 12:30	22-Nov-2024 09:00	☐
HS24111434-04	MW-4-20241120	Water		20-Nov-2024 09:15	22-Nov-2024 09:00	☐
HS24111434-05	MW-5-20241120	Water		20-Nov-2024 14:00	22-Nov-2024 09:00	☐
HS24111434-06	MW-6-20241120	Water		20-Nov-2024 15:30	22-Nov-2024 09:00	☐
HS24111434-07	RW-1-20241120	Water		20-Nov-2024 17:00	22-Nov-2024 09:00	☐
HS24111434-08	Dup-01-20241120	Water		20-Nov-2024 00:00	22-Nov-2024 09:00	☐

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston **CASE NARRATIVE**
Project: 12603939 - Jal No. 4
Work Order: HS24111434

GCMS Volatiles by Method SW8260

Batch ID: R501056

Sample ID: HS24111361-08MS

• MS and MSD are for an unrelated sample

Batch ID: R500865

Sample ID: MW-4-20241120 (HS24111434-04)

• Surrogate failed outside of QC control limits high and is not associated with the target analytes.

Sample ID: VBLKW-241123

• Surrogate failed outside of QC control limits high and is not associated with target analytes in this run.

Sample ID: VLCSW-241123

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Sample ID: VLCSDW-241123

• The RPD between the LCS and LCSD was outside of the control limit.

WetChemistry by Method E300

Batch ID: R501304

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R501177

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: 12603939-TB01
Collection Date: 20-Nov-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene		U	0.0010	mg/L	1	23-Nov-2024 17:46
Ethylbenzene		U	0.0010	mg/L	1	23-Nov-2024 17:46
Toluene		U	0.0010	mg/L	1	23-Nov-2024 17:46
Xylenes, Total		U	0.0030	mg/L	1	23-Nov-2024 17:46
Surr: 1,2-Dichloroethane-d4	*93.6*		*70-126*	*%REC*	*1*	*23-Nov-2024 17:46*
Surr: 4-Bromofluorobenzene	*112*		*77-113*	*%REC*	*1*	*23-Nov-2024 17:46*
Surr: Dibromofluoromethane	*106*		*77-123*	*%REC*	*1*	*23-Nov-2024 17:46*
Surr: Toluene-d8	*110*		*82-127*	*%REC*	*1*	*23-Nov-2024 17:46*

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: MW-2-20241120
Collection Date: 20-Nov-2024 11:00

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene	U		0.0010	mg/L	1	23-Nov-2024 18:09
Ethylbenzene	U		0.0010	mg/L	1	23-Nov-2024 18:09
Toluene	U		0.0010	mg/L	1	23-Nov-2024 18:09
Xylenes, Total	U		0.0030	mg/L	1	23-Nov-2024 18:09
Surr: 1,2-Dichloroethane-d4	*93.2*		*70-126*	*%REC*	*1*	*23-Nov-2024 18:09*
Surr: 4-Bromofluorobenzene	*111*		*77-113*	*%REC*	*1*	*23-Nov-2024 18:09*
Surr: Dibromofluoromethane	*104*		*77-123*	*%REC*	*1*	*23-Nov-2024 18:09*
Surr: Toluene-d8	*110*		*82-127*	*%REC*	*1*	*23-Nov-2024 18:09*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**52.6**		**0.500**	**mg/L**	1	30-Nov-2024 10:16
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**422**		**10.0**	**mg/L**	1	26-Nov-2024 10:18

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: MW-3-20241120
Collection Date: 20-Nov-2024 12:30

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene	U		0.0010	mg/L	1	23-Nov-2024 18:33
Ethylbenzene	U		0.0010	mg/L	1	23-Nov-2024 18:33
Toluene	U		0.0010	mg/L	1	23-Nov-2024 18:33
Xylenes, Total	U		0.0030	mg/L	1	23-Nov-2024 18:33
Surr: 1,2-Dichloroethane-d4	*90.9*		*70-126*	*%REC*	*1*	*23-Nov-2024 18:33*
Surr: 4-Bromofluorobenzene	*112*		*77-113*	*%REC*	*1*	*23-Nov-2024 18:33*
Surr: Dibromofluoromethane	*105*		*77-123*	*%REC*	*1*	*23-Nov-2024 18:33*
Surr: Toluene-d8	*111*		*82-127*	*%REC*	*1*	*23-Nov-2024 18:33*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**43.6**		**0.500**	**mg/L**	1	30-Nov-2024 11:26
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**398**		**10.0**	**mg/L**	1	26-Nov-2024 10:18

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: MW-4-20241120
Collection Date: 20-Nov-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-04
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene	U		0.0010	mg/L	1	23-Nov-2024 18:56
Ethylbenzene	U		0.0010	mg/L	1	23-Nov-2024 18:56
Toluene	U		0.0010	mg/L	1	23-Nov-2024 18:56
Xylenes, Total	U		0.0030	mg/L	1	23-Nov-2024 18:56
Surr: 1,2-Dichloroethane-d4	*93.8*		*70-126*	*%REC*	*1*	*23-Nov-2024 18:56*
Surr: 4-Bromofluorobenzene	*113*	*S*	*77-113*	*%REC*	*1*	*23-Nov-2024 18:56*
Surr: Dibromofluoromethane	*107*		*77-123*	*%REC*	*1*	*23-Nov-2024 18:56*
Surr: Toluene-d8	*111*		*82-127*	*%REC*	*1*	*23-Nov-2024 18:56*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**50.7**		**0.500**	**mg/L**	1	30-Nov-2024 11:32
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**394**		**10.0**	**mg/L**	1	26-Nov-2024 10:18

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: MW-5-20241120
Collection Date: 20-Nov-2024 14:00

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-05
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene	U		0.0010	mg/L	1	23-Nov-2024 19:19
Ethylbenzene	U		0.0010	mg/L	1	23-Nov-2024 19:19
Toluene	U		0.0010	mg/L	1	23-Nov-2024 19:19
Xylenes, Total	U		0.0030	mg/L	1	23-Nov-2024 19:19
Surr: 1,2-Dichloroethane-d4	*95.0*		*70-126*	*%REC*	*1*	*23-Nov-2024 19:19*
Surr: 4-Bromofluorobenzene	*107*		*77-113*	*%REC*	*1*	*23-Nov-2024 19:19*
Surr: Dibromofluoromethane	*107*		*77-123*	*%REC*	*1*	*23-Nov-2024 19:19*
Surr: Toluene-d8	*108*		*82-127*	*%REC*	*1*	*23-Nov-2024 19:19*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**212**		**5.00**	**mg/L**	10	30-Nov-2024 11:38
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**440**		**10.0**	**mg/L**	1	26-Nov-2024 10:18

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: MW-6-20241120
Collection Date: 20-Nov-2024 15:30

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-06
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene	U		0.0010	mg/L	1	23-Nov-2024 19:43
Ethylbenzene	U		0.0010	mg/L	1	23-Nov-2024 19:43
Toluene	U		0.0010	mg/L	1	23-Nov-2024 19:43
Xylenes, Total	U		0.0030	mg/L	1	23-Nov-2024 19:43
Surr: 1,2-Dichloroethane-d4	*87.0*		*70-126*	*%REC*	*1*	*23-Nov-2024 19:43*
Surr: 4-Bromofluorobenzene	*98.8*		*77-113*	*%REC*	*1*	*23-Nov-2024 19:43*
Surr: Dibromofluoromethane	*105*		*77-123*	*%REC*	*1*	*23-Nov-2024 19:43*
Surr: Toluene-d8	*103*		*82-127*	*%REC*	*1*	*23-Nov-2024 19:43*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**96.3**		**1.00**	**mg/L**	2	30-Nov-2024 12:25
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**620**		**10.0**	**mg/L**	1	26-Nov-2024 10:18

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: RW-1-20241120
Collection Date: 20-Nov-2024 17:00

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-07
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene	**0.26**		**0.0050**	**mg/L**	5	25-Nov-2024 20:28
Ethylbenzene	**0.0035**		**0.0010**	**mg/L**	1	23-Nov-2024 20:06
Toluene	**0.0087**		**0.0010**	**mg/L**	1	23-Nov-2024 20:06
Xylenes, Total	**0.0083**		**0.0030**	**mg/L**	1	23-Nov-2024 20:06
Surr: 1,2-Dichloroethane-d4	*90.7*		*70-126*	*%REC*	*1*	*23-Nov-2024 20:06*
Surr: 1,2-Dichloroethane-d4	*96.5*		*70-126*	*%REC*	*5*	*25-Nov-2024 20:28*
Surr: 4-Bromofluorobenzene	*100.0*		*77-113*	*%REC*	*1*	*23-Nov-2024 20:06*
Surr: 4-Bromofluorobenzene	*111*		*77-113*	*%REC*	*5*	*25-Nov-2024 20:28*
Surr: Dibromofluoromethane	*108*		*77-123*	*%REC*	*1*	*23-Nov-2024 20:06*
Surr: Dibromofluoromethane	*107*		*77-123*	*%REC*	*5*	*25-Nov-2024 20:28*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*23-Nov-2024 20:06*
Surr: Toluene-d8	*109*		*82-127*	*%REC*	*5*	*25-Nov-2024 20:28*
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**66.2**		**0.500**	**mg/L**	1	30-Nov-2024 12:31
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: MH
Total Dissolved Solids (Residue, Filterable)	**756**		**10.0**	**mg/L**	1	26-Nov-2024 10:18

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
Sample ID: Dup-01-20241120
Collection Date: 20-Nov-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24111434
Lab ID:HS24111434-08
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**				Analyst: TS
Benzene		U	0.0010	mg/L	1	23-Nov-2024 20:29
Ethylbenzene		U	0.0010	mg/L	1	23-Nov-2024 20:29
Toluene		U	0.0010	mg/L	1	23-Nov-2024 20:29
Xylenes, Total		U	0.0030	mg/L	1	23-Nov-2024 20:29
Surr: 1,2-Dichloroethane-d4	*101*		*70-126*	*%REC*	*1*	*23-Nov-2024 20:29*
Surr: 4-Bromofluorobenzene	*110*		*77-113*	*%REC*	*1*	*23-Nov-2024 20:29*
Surr: Dibromofluoromethane	*98.9*		*77-123*	*%REC*	*1*	*23-Nov-2024 20:29*
Surr: Toluene-d8	*122*		*82-127*	*%REC*	*1*	*23-Nov-2024 20:29*

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

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: HS24111434

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R500865 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS24111434-01	12603939-TB01	20 Nov 2024 00:00			23 Nov 2024 17:46	1
HS24111434-02	MW-2-20241120	20 Nov 2024 11:00			23 Nov 2024 18:09	1
HS24111434-03	MW-3-20241120	20 Nov 2024 12:30			23 Nov 2024 18:33	1
HS24111434-04	MW-4-20241120	20 Nov 2024 09:15			23 Nov 2024 18:56	1
HS24111434-05	MW-5-20241120	20 Nov 2024 14:00			23 Nov 2024 19:19	1
HS24111434-06	MW-6-20241120	20 Nov 2024 15:30			23 Nov 2024 19:43	1
HS24111434-07	RW-1-20241120	20 Nov 2024 17:00			23 Nov 2024 20:06	1
HS24111434-08	Dup-01-20241120	20 Nov 2024 00:00			23 Nov 2024 20:29	1
Batch ID: R501056 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS24111434-07	RW-1-20241120	20 Nov 2024 17:00			25 Nov 2024 20:28	5
Batch ID: R501177 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Water	
HS24111434-02	MW-2-20241120	20 Nov 2024 11:00			26 Nov 2024 10:18	1
HS24111434-03	MW-3-20241120	20 Nov 2024 12:30			26 Nov 2024 10:18	1
HS24111434-04	MW-4-20241120	20 Nov 2024 09:15			26 Nov 2024 10:18	1
HS24111434-05	MW-5-20241120	20 Nov 2024 14:00			26 Nov 2024 10:18	1
HS24111434-06	MW-6-20241120	20 Nov 2024 15:30			26 Nov 2024 10:18	1
HS24111434-07	RW-1-20241120	20 Nov 2024 17:00			26 Nov 2024 10:18	1
Batch ID: R501304 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS24111434-02	MW-2-20241120	20 Nov 2024 11:00			30 Nov 2024 10:16	1
HS24111434-03	MW-3-20241120	20 Nov 2024 12:30			30 Nov 2024 11:26	1
HS24111434-04	MW-4-20241120	20 Nov 2024 09:15			30 Nov 2024 11:32	1
HS24111434-05	MW-5-20241120	20 Nov 2024 14:00			30 Nov 2024 11:38	10
HS24111434-06	MW-6-20241120	20 Nov 2024 15:30			30 Nov 2024 12:25	2
HS24111434-07	RW-1-20241120	20 Nov 2024 17:00			30 Nov 2024 12:31	1

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: HS24111434

QC BATCH REPORT

Batch ID: R500865 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-241123** Units: **ug/L** Analysis Date: **23-Nov-2024 12:43**
Client ID: Run ID: **VOA13_500865** SeqNo: **8549052** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Ethylbenzene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*53.56*	*1.0*	*50*	*0*	*107*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*61.22*	*1.0*	*50*	*0*	*122*	*77 - 113*				S
Surr: Dibromofluoromethane	*52.36*	*1.0*	*50*	*0*	*105*	*73 - 126*				
Surr: Toluene-d8	*53.1*	*1.0*	*50*	*0*	*106*	*81 - 120*				

LCS Sample ID: **VLCSW-241123** Units: **ug/L** Analysis Date: **23-Nov-2024 11:33**
Client ID: Run ID: **VOA13_500865** SeqNo: **8549051** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.45	1.0	20	0	82.3	74 - 120				
Ethylbenzene	18.54	1.0	20	0	92.7	77 - 117				
Toluene	21.22	1.0	20	0	106	77 - 118				
Xylenes, Total	55.95	3.0	60	0	93.2	75 - 122				
Surr: 1,2-Dichloroethane-d4	*47.78*	*1.0*	*50*	*0*	*95.6*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*53.96*	*1.0*	*50*	*0*	*108*	*77 - 113*				
Surr: Dibromofluoromethane	*53.29*	*1.0*	*50*	*0*	*107*	*73 - 126*				
Surr: Toluene-d8	*59.9*	*1.0*	*50*	*0*	*120*	*81 - 120*				

LCSD Sample ID: **VLCSDW-241123** Units: **ug/L** Analysis Date: **23-Nov-2024 20:53**
Client ID: Run ID: **VOA13_500865** SeqNo: **8549061** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.84	1.0	20	0	89.2	74 - 120	16.45	8.06	20	
Ethylbenzene	16.92	1.0	20	0	84.6	77 - 117	18.54	9.16	20	
Toluene	16.5	1.0	20	0	82.5	77 - 118	21.22	25	20	R
Xylenes, Total	54.03	3.0	60	0	90.1	75 - 122	55.95	3.48	20	
Surr: 1,2-Dichloroethane-d4	*53.63*	*1.0*	*50*	*0*	*107*	*70 - 123*	*47.78*	*11.5*	*20*	
Surr: 4-Bromofluorobenzene	*56.24*	*1.0*	*50*	*0*	*112*	*77 - 113*	*53.96*	*4.15*	*20*	
Surr: Dibromofluoromethane	*54.37*	*1.0*	*50*	*0*	*109*	*73 - 126*	*53.29*	*2*	*20*	
Surr: Toluene-d8	*49.39*	*1.0*	*50*	*0*	*98.8*	*81 - 120*	*59.9*	*19.2*	*20*	

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: HS24111434

QC BATCH REPORT

Batch ID: R500865 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

The following samples were analyzed in this batch:

HS24111434-01	HS24111434-02	HS24111434-03	HS24111434-04
HS24111434-05	HS24111434-06	HS24111434-07	HS24111434-08

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: HS24111434

QC BATCH REPORT

Batch ID: R501056 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-241125** Units: **ug/L** Analysis Date: **25-Nov-2024 12:53**
Client ID: Run ID: **VOA13_501056** SeqNo: **8553254** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Surr: 1,2-Dichloroethane-d4	*49.2*	*1.0*	*50*	*0*	*98.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*54.75*	*1.0*	*50*	*0*	*109*	*77 - 113*				
Surr: Dibromofluoromethane	*54.26*	*1.0*	*50*	*0*	*109*	*73 - 126*				
Surr: Toluene-d8	*54.74*	*1.0*	*50*	*0*	*109*	*81 - 120*				

LCS Sample ID: **VLCSW-241125** Units: **ug/L** Analysis Date: **25-Nov-2024 11:42**
Client ID: Run ID: **VOA13_501056** SeqNo: **8553252** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.6	1.0	20	0	93.0	74 - 120				
Surr: 1,2-Dichloroethane-d4	*52.65*	*1.0*	*50*	*0*	*105*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*54.46*	*1.0*	*50*	*0*	*109*	*77 - 113*				
Surr: Dibromofluoromethane	*55.69*	*1.0*	*50*	*0*	*111*	*73 - 126*				
Surr: Toluene-d8	*54.37*	*1.0*	*50*	*0*	*109*	*81 - 120*				

LCSD Sample ID: **VLCSDW-241125** Units: **ug/L** Analysis Date: **25-Nov-2024 12:06**
Client ID: Run ID: **VOA13_501056** SeqNo: **8553253** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.32	1.0	20	0	91.6	74 - 120	18.6	1.53	20	
Surr: 1,2-Dichloroethane-d4	*51.68*	*1.0*	*50*	*0*	*103*	*70 - 123*	*52.65*	*1.85*	*20*	
Surr: 4-Bromofluorobenzene	*53.66*	*1.0*	*50*	*0*	*107*	*77 - 113*	*54.46*	*1.49*	*20*	
Surr: Dibromofluoromethane	*53.95*	*1.0*	*50*	*0*	*108*	*73 - 126*	*55.69*	*3.17*	*20*	
Surr: Toluene-d8	*53.68*	*1.0*	*50*	*0*	*107*	*81 - 120*	*54.37*	*1.27*	*20*	

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: HS24111434

QC BATCH REPORT

Batch ID: R501056 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS24111361-08MS** Units: **ug/L** Analysis Date: **25-Nov-2024 21:15**
Client ID: Run ID: **VOA13_501056** SeqNo: **8553275** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	107.4	1.0	20	68.64	194	70 - 127				S
Surr: 1,2-Dichloroethane-d4	*54.17*	*1.0*	*50*	*0*	*108*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.45*	*1.0*	*50*	*0*	*98.9*	*77 - 113*				
Surr: Dibromofluoromethane	*54.45*	*1.0*	*50*	*0*	*109*	*77 - 123*				
Surr: Toluene-d8	*51.71*	*1.0*	*50*	*0*	*103*	*82 - 127*				

MSD Sample ID: **HS24111361-08MSD** Units: **ug/L** Analysis Date: **25-Nov-2024 21:39**
Client ID: Run ID: **VOA13_501056** SeqNo: **8553276** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	108	1.0	20	68.64	197	70 - 127	107.4	0.484	20	S
Surr: 1,2-Dichloroethane-d4	*52.69*	*1.0*	*50*	*0*	*105*	*70 - 126*	*54.17*	*2.77*	*20*	
Surr: 4-Bromofluorobenzene	*56.95*	*1.0*	*50*	*0*	*114*	*77 - 113*	*49.45*	*14.1*	*20*	S
Surr: Dibromofluoromethane	*55.18*	*1.0*	*50*	*0*	*110*	*77 - 123*	*54.45*	*1.33*	*20*	
Surr: Toluene-d8	*50.67*	*1.0*	*50*	*0*	*101*	*82 - 127*	*51.71*	*2.03*	*20*	

The following samples were analyzed in this batch: HS24111434-07

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: HS24111434

QC BATCH REPORT

Batch ID: R501177 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011**

MBLK Sample ID: **WMBLK-112622024** Units: **mg/L** Analysis Date: **26-Nov-2024 10:18**
Client ID: Run ID: **Balance1_501177** SeqNo: **8556214** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **LCS-R501177** Units: **mg/L** Analysis Date: **26-Nov-2024 10:18**
Client ID: Run ID: **Balance1_501177** SeqNo: **8556229** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	950	10.0	1000	0	95.0	85 - 115				

DUP Sample ID: **HS24111438-05 DUP** Units: **mg/L** Analysis Date: **26-Nov-2024 10:18**
Client ID: Run ID: **Balance1_501177** SeqNo: **8556212** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	102	10.0					106	3.85	20	

DUP Sample ID: **HS24111361-02 DUP** Units: **mg/L** Analysis Date: **26-Nov-2024 10:18**
Client ID: Run ID: **Balance1_501177** SeqNo: **8556193** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	22980	10.0					22960	0.0871	20	

The following samples were analyzed in this batch: HS24111434-02 HS24111434-03 HS24111434-04 HS24111434-05 HS24111434-06 HS24111434-07

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: HS24111434

QC BATCH REPORT

Batch ID: R501304 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **30-Nov-2024 09:17**
Client ID: Run ID: **ICS-Integrion_501304** SeqNo: **8558940** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **30-Nov-2024 09:23**
Client ID: Run ID: **ICS-Integrion_501304** SeqNo: **8558941** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.03	0.500	20	0	100	90 - 110				

MS Sample ID: **HS24111452-02MS** Units: **mg/L** Analysis Date: **30-Nov-2024 13:00**
Client ID: Run ID: **ICS-Integrion_501304** SeqNo: **8558970** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	369.8	5.00	100	267.5	102	80 - 120				

MS Sample ID: **HS24111363-02MS** Units: **mg/L** Analysis Date: **30-Nov-2024 10:04**
Client ID: Run ID: **ICS-Integrion_501304** SeqNo: **8558947** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.43	0.500	10	26.25	91.8	80 - 120				

MSD Sample ID: **HS24111452-02MSD** Units: **mg/L** Analysis Date: **30-Nov-2024 13:06**
Client ID: Run ID: **ICS-Integrion_501304** SeqNo: **8558971** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	360.6	5.00	100	267.5	93.1	80 - 120	369.8	2.51	20	

MSD Sample ID: **HS24111363-02MSD** Units: **mg/L** Analysis Date: **30-Nov-2024 10:10**
Client ID: Run ID: **ICS-Integrion_501304** SeqNo: **8558948** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	36.17	0.500	10	26.25	99.2	80 - 120	35.43	2.07	20	

The following samples were analyzed in this batch: HS24111434-02 HS24111434-03 HS24111434-04 HS24111434-05 HS24111434-06 HS24111434-07

ALS Houston, US Date: 02-Dec-24

Client: GHDHouston
Project: 12603939 - Jal No. 4
WorkOrder: **HS24111434**

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 Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L24-240	30-Apr-2026
Dept of Defense	L24-239	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

ALS Houston, US Date: 02-Dec-24

Sample Receipt Checklist

Work Order ID: HS24111434 **Date/Time Received:** 22-Nov-2024 09:00

Client Name: GHDHouston **Received by:** Jacob Coronado

Completed By:	/S/ Michael Lucio	22-Nov-2024 17:26	**Reviewed by:**	/S/ Alexis Dorenbosch	25-Nov-2024 10:14
	eSignature	Date/Time		eSignature	Date/Time

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:323123
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):	5.0uc/5.0c	IR34	
Cooler(s)/Kit(s):	52390		
Date/Time sample(s) sent to storage:	11/22/2024 1727		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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

Chain of Custody Form

Page 1 of 1

COC ID: 323123

HS24111434

GHDHouston

12603939 - Jal No. 4

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	E-19001-GL-21300132 Stacy Boul	Project Name	12603939 - Jal No. 4	A	8260_LL_W (8260 BTEX) [3xVOA HCl]
Work Order		Project Number	12603939	B	TDS_W 2540C (2540C TDS) [250ml P Neat-share]
Company Name	GHD	Bill To Company	ET Gathering & Processing LLC	C	300_W (300 Cl) [250ml P Neat-share]
Send Report To	Deedee Whittington	Invoice Attn	Stacy Boultinghouse	D	TB 8260_LL_W (8260 BTEX) [[3xVOA HCl]
Address	11451 Katy Fwy Suite 400	Address	800 Sonterra Blvd Ste 400	E	
				F	
City/State/Zip	Houston, TX 77079	City/State/Zip	San Antonio TX 78258	G	
Phone	(713) 734-3090	Phone		H	
Fax	(713) 734-3391	Fax		I	
e-Mail Address	deedee.whittington@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	12603939-TB01-	—	—	Water	1,8	2				X							
2	MW-2-20241120	11/20/24	11:00		8	4	X	X	X								
3	MW-3-20241120		12:30				X	X	X								
4	MW-4-20241120		09:15				X	X	X								
5	MW-5-20241120		14:00				X	X	X								
6	MW-6-20241120		15:30				X	X	X								
7	RW-1-20241120		17:00				X	X	X								
8	DUP-01-20241120		—				X										
9																	
10																	

Sampler(s) Please Print & Sign: Elizabeth Fain

Shipment Method: FedEx cooler

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by: Elizabeth Fain — Date: 11/21/24 — Time: 11:30

Relinquished by: — Date: 11/22/24 — Time: 0900

Received by:

Received by (Laboratory):

Logged by (Laboratory):

Date:

Time:

Checked by (Laboratory):

Notes: ETC Jal No. 4 Lea County NM

Cooler ID	Cooler Temp.
52390	5.0

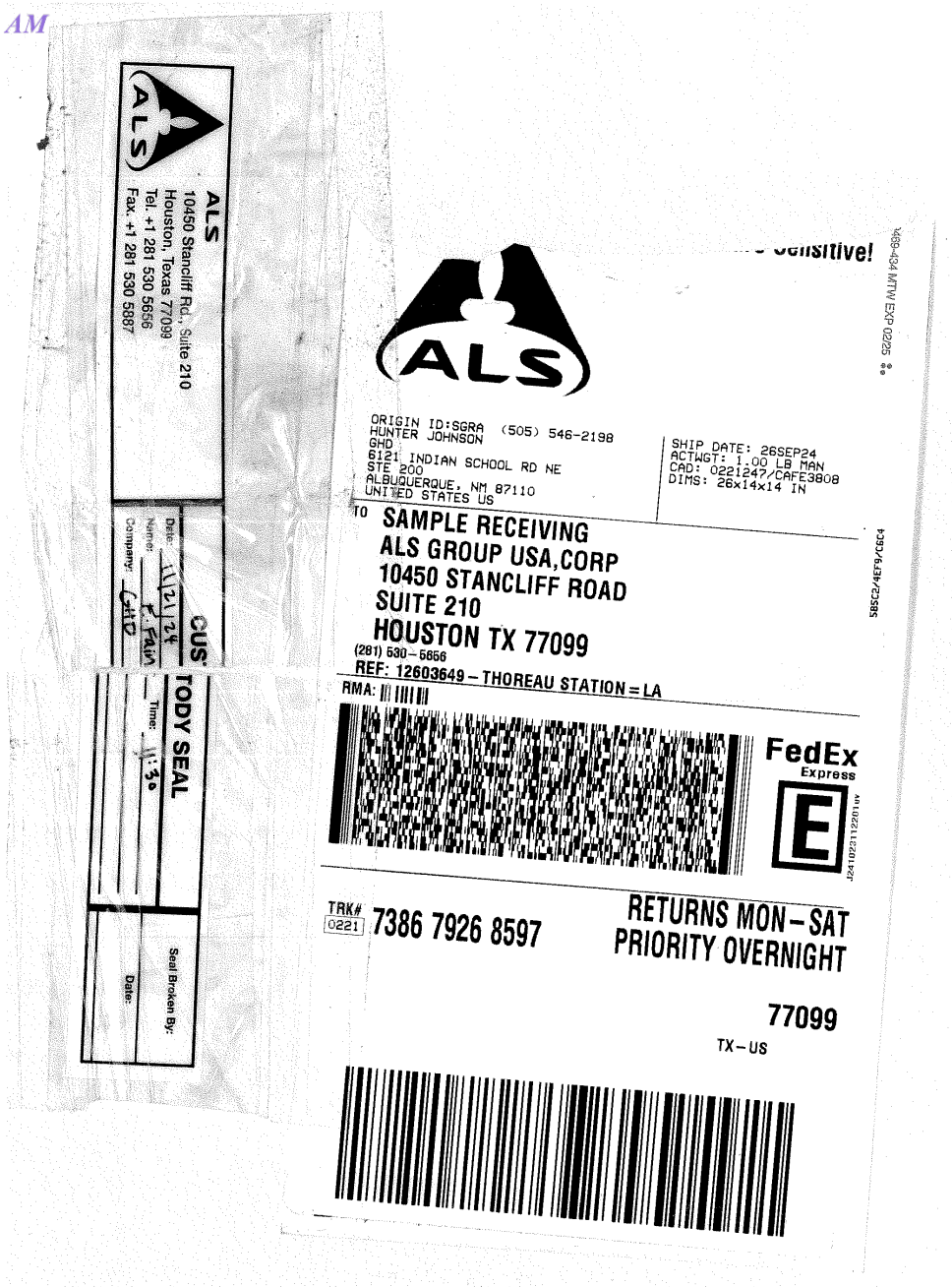
QC Package: (Check One Box Below)

[X] Level II Std QC
[ ] Level II Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

12:34

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.



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 452964

COMMENTS

Operator: ET Gathering & Processing, LLC 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 452964
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

COMMENTS

Created By	Comment	Comment Date
csmith	Returned to OCD Review, OCD to clarify Conditions of Approval.	8/21/2025

Sante Fe Main Office
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General Information
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Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: ET Gathering & Processing, LLC 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 452964
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	1. OCD records indicate that an approved Stage 1 plan is not on file. Pursuant to 19.15.30 NMAC ET Gathering and Processing LLC(ET Gathering) must submit a Stage 1 Abatement plan no later than October 31, 2025 that meets all of the requirements of 19.15.30.13 NMAC.	9/3/2025
shanna.smith	2.Alternatively, if a Stage 1/Stage 2 Abatement Report has been approved by OCD, provide a copy of Stage 1/ Stage 2 Abatement Report by September 30, 2025, so OCD can update our Online records.	9/3/2025
shanna.smith	3. All groundwater samples will be analyzed according to all constituents in 20.6.2.3103 NMAC Pursuant to 19.15.30.9.B(2) NMAC. Operators may request to reduce sampling constituents based upon future results.	9/3/2025
shanna.smith	4. Pursuant to Paragraph (5) of Subsection C of 19.15.30.13 a schedule for Stage 1 Abatement Plan activities, including the submission of summary quarterly progress reports. ET Gathering will transition from submitting annual monitoring and sampling reports to submitting quarterly monitoring and sampling reports.	9/3/2025
shanna.smith	5. Submit a C-141N for all future monitoring and sampling events.	9/3/2025