1755 Wittington Place, Suite 500
Dallas, Texas 75234
United States
ghd.com

REVIEWED
By Mike Buchanan at 9:50 am, Jun 24, 2024

Your ref: New Mexico Oil Conservation Division AP-106
Our ref: 12603931-Buchanan-2

May 01, 2024

Review of the 2023 Annual Groundwater Monitoring Report for Boyd Compressor Station: Content Satisfactory
1. Continue annual groundwater sampling events until COCs are at the achievable WQCC limits, and then increase to quarterly events until eight (8) consecutive sampling events below the limits are achieved.
2. Submit the 2024 Annual GW Report by April 1, 202, to OCD.

Mr. Michael Buchanan
State of New Mexico
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

2023 Annual Groundwater Monitoring Report
Boyd Compressor Station
Lea County, New Mexico
New Mexico Oil Conservation Division AP-106
Incident Number nAPP2214005252

Dear Mr. Buchanan:

On behalf of ET Gathering & Processing LLC, formerly ETC Texas Pipeline, Ltd, GHD Services Inc. (GHD) is submitting the 2023 Annual Groundwater Monitoring Report (Report) for the above-referenced property (Site) to the New Mexico Oil Conservation Division (NMOCD). The Report summarizes activities performed at the Site during 2023 in accordance with the NMOCD's recommendations in response to the *2022 Annual Groundwater Monitoring Report* submitted to the NMOCD in June 2023.

Should you have any questions or comments regarding this submittal, please contact the undersigned.

Regards,

Blair Owen
Project Manager

+1 214 231-8301
Blair.Owen@ghd.com

J.T. Murrey
Project Director

+1 361 252-6136
JT.Murrey@ghd.com

BO/kdn/2

Encl: 2023 Annual Groundwater Monitoring Report

Copy to: Stacy Boultinghouse, Energy Transfer
Mr. Billy Sims, property owner

2023 Annual Groundwater Monitoring Report

Boyd Compressor Station
Lea County, New Mexico
NMOCD AP-106
Incident Number nAPP2214005252

ET Gathering & Processing LLC

May 1, 2024

→ The Power of Commitment

Contents

Table index

Figure index

Appendices

1. Introduction and Site History

This report presents the results of groundwater monitoring during 2023 at the ET Gathering & Processing LLC (ETG&P), formerly ETC Texas Pipeline Ltd., former Boyd Compressor Station (Site). The Site is an inactive compressor station located in Section 26, Township 22 South, Range 37 East in Lea County, New Mexico. The Site is located approximately 5 miles south of Eunice, New Mexico and 1 mile east of New Mexico Highway 18 (Figure 1). Site details are shown on Figure 2. The property of the former compressor station is owned by Mr. R.D. Simms of Eunice, New Mexico. The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under Abatement Plan (AP)-106 and is associated with incident number nAPP2214005252.

During the decommissioning of the compressor station in June 2008, corrosion was observed around the bolts used to secure the two halves of the aboveground storage tanks. It is believed that this corrosion resulted in the release of saltwater and/or petroleum hydrocarbon liquids.

Groundwater monitoring began at the Site in 2009 with the installation of groundwater monitoring wells MW-01 through MW-04. The groundwater was sampled and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX), chloride, and total dissolved solids (TDS). Since 2010, concentrations of BTEX have been below laboratory detection limits and therefore, also below New Mexico Water Quality Control Commission (NMWQCC) standards. As the concentrations of BTEX were consistently non-detect and below NMWQCC standards, GHD discontinued analysis of BTEX in September 2015 and converted to a semi-annual monitoring schedule in May 2017. In 2019, the monitoring schedule was reduced again to an annual event. Light non-aqueous phase liquid (LNAPL) has never been observed in the groundwater monitoring wells at the Site.

2. Groundwater Monitoring

GHD performed annual groundwater monitoring activities at the Site on April 27, 2023. The monitoring program included gauging and collecting groundwater samples from MW-01 through MW-04.

2.1 Monitoring Well Gauging

On April 27, 2023, GHD personnel measured the depth to groundwater in monitoring wells MW-1 through MW-4 using an electronic oil/water interface probe (IP). The IP was cleaned with laboratory-grade soap and purified water prior to gauging each well. MW-3 was dry during this monitoring event. Depth to groundwater and calculated groundwater elevations are summarized in Table 1.

Based on the data collected in 2023, groundwater flow is generally south-southeast and is consistent with historical data for the Site. A groundwater potentiometric surface map for the monitoring event is presented as Figure 3. The groundwater gradient during the event was calculated at approximately 0.001 feet per foot (ft/ft).

2.2 Groundwater Sampling

Following gauging on April 27, 2023, GHD personnel utilized dedicated polyethylene bailers to purge a minimum of three well volumes of groundwater or until the well was dry. The wells were given time to recover prior to collecting a groundwater sample. Groundwater quality parameters of pH, temperature, oxidation reduction potential, and conductivity were collected using a calibrated multi-parameter groundwater quality meter and were recorded on GHD groundwater sampling forms.

Following collection, groundwater samples were placed in laboratory-prepared sample containers, packed in a cooler with ice, and transported under Chain-of-Custody documentation to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. Groundwater samples were analyzed for chloride by Environmental Protection Agency (EPA) Method 300.0 and total dissolved solids (TDS) by Standard Method 2540C.

2.3 Quality Assurance/Quality Control

During the 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.

2.4 Analytical Results

The NMWQCC mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the 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 are summarized in Table 2 and the corresponding laboratory analytical report is included in Appendix A. A map depicting chloride and TDS concentrations for the 2023 groundwater sampling event is included as Figure 4.

Groundwater collected from MW-1 has consistently exceeded the NMWQCC standard for chloride since initiation of monitoring in 2009. Analytical results from the April 2023 monitoring event indicate that the concentrations of chloride in MW-1 and MW-4 were 350 and 300 milligrams per liter (mg/L), respectively. Analytical results from samples collected from MW-1 show a general decreasing trend in chloride concentrations over time, whereas concentrations in MW-4 have been increasing since 2020.

Since the initiation of sampling for TDS in groundwater at the Site in 2015, detected concentrations in MW-1 have consistently exceeded the NMWQCC standard for TDS. Since 2020, concentrations of TDS in MW-4 have also consistently exceeded the NMWQCC standard. Analytical results from the April 2023 monitoring event indicated that the concentrations of TDS in groundwater samples in MW-1 and MW-4 were 1,180 mg/L and 1,030 mg/L, respectively.

Concentrations of chloride and TDS detected in MW-2 and MW-3 have never been above the NMWQCC standards since initiation of monitoring in 2009.

3. Summary and Recommendations

3.1 Summary

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

- Groundwater samples collected from monitoring wells MW-2 and MW-3 have not had detections of chloride or TDS in exceedance of NMWQCC standards since sampling was initiated in 2009.
- Although chloride and TDS concentrations in groundwater samples collected from MW-1 have consistently exceeded the NMWQCC standard, concentrations of both have significantly decreased over time.
- The chloride and TDS concentrations detected in MW-4 exceeded their NMWQCC standards and concentrations of both appear to be increasing over time.

3.2 Recommendations

Based on the results of the 2023 groundwater monitoring event and NMOCD's response to the 2022 Annual Groundwater Monitoring Report for the Site, GHD will conduct the following on behalf of ETGP:

– Continue annual groundwater monitoring at the Site until detected concentrations of chloride and TDS are below NMWQCC standards for eight consecutive quarters.

4. Scope and limitations

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

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

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

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

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

Table 1
Summary of Groundwater Elevations
Boyd Compressor Station
Lea County, New Mexico
ET Gathering and Processing LLC
NMOCD AP 106

Well ID	Top of Casing (ft AMSL)	Total Well Depth (ft below TOC)	Date Measured	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-1	3,316.67	69.35	6/26/2009	58.95	3,257.72
			3/25/2010	59.07	3,257.60
			6/28/2010	59.32	3,257.35
			10/29/2010	59.12	3,257.55
			2/8/2011	59.17	3,257.50
			9/28/2011	59.36	3,257.31
			12/1/2011	59.36	3,257.31
			2/9/2012	59.45	3,257.22
			5/16/2012	58.00	3,258.67
			8/31/2012	58.01	3,258.66
			11/2/2012	59.50	3,257.17
			2/7/2013	59.67	3,257.00
			5/10/2013	59.48	3,257.19
			9/4/2013	59.71	3,256.96
			8/12/2014	59.75	3,256.92
			10/23/2014	59.23	3,257.44
			1/23/2015	59.11	3,257.56
			4/20/2015	59.00	3,257.67
			9/30/2015	58.96	3,257.71
			12/15/2015	58.86	3,257.81
			3/16/2016	58.76	3,257.91
			6/29/2016	58.81	3,257.86
			9/30/2016	58.88	3,257.79
			11/30/2016	58.81	3,257.86
			5/10/2017	58.84	3,257.83
			11/16/2017	58.85	3,257.82
			5/13/2018	58.90	3,257.77
			11/7/2018	59.02	3,257.65
			5/15/2019	59.06	3,257.61
			7/15/2020	59.30	3,257.37
			4/21/2021	59.58	3,257.09
			4/12/2022	59.74	3,256.93
			4/27/2023	59.95	3,256.72
MW-2	3,317.02	69.64	6/26/2009	59.16	3,257.86
			3/25/2010	59.32	3257.70
			6/28/2010	59.97	3,257.05
			10/29/2010	57.36	3,259.66
			2/8/2011	59.4	3,257.62
			9/28/2011	59.57	3,257.45
			12/1/2011	60.65	3,256.37
			2/9/2012	59.65	3,257.37
			5/16/2012	59.65	3,257.37
			8/31/2012	59.60	3,257.42
			11/2/2012	59.75	3,257.27
			2/7/2013	59.84	3,257.18
			5/10/2013	59.86	3,257.16
			9/4/2013	59.00	3,258.02
			8/12/2014	60.02	3,257.00
			10/23/2014	59.47	3,257.55
			1/23/2015	59.41	3,257.61
			4/20/2015	59.27	3,257.75
			9/30/2015	59.21	3,257.81
			12/15/2015	59.12	3,257.90
			3/16/2016	59.02	3,258.00
			6/29/2016	59.07	3,257.95
			9/30/2016	59.14	3,257.88
			11/30/2016	59.06	3,257.96
			5/10/2017	59.12	3,257.90
			11/16/2017	59.14	3,257.88
			5/13/2018	59.12	3,257.90
			11/7/2018	59.31	3,257.71
			5/15/2019	59.33	3,257.69
			7/15/2020	59.58	3,257.44
			4/21/2021	59.85	3,257.17
			4/12/2022	60.00	3,257.02
			4/27/2023	60.20	3,256.82

Table 1
Summary of Groundwater Elevations
Boyd Compressor Station
Lea County, New Mexico
ET Gathering and Processing LLC
NMOCD AP 106

Well ID	Top of Casing (ft AMSL)	Total Well Depth (ft below TOC)	Date Measured	Depth to Water (ft below TOC)	Groundwater Elevation (ft AMSL)
MW-3	3,317.52	69.50	6/26/2009	59.16	3,258.36
			3/25/2010	59.92	3,257.60
			6/28/2010	59.97	3,257.55
			10/29/2010	60.16	3,257.36
			2/8/2011	59.40	3,258.12
			9/28/2011	60.23	3,257.29
			12/1/2011	65.20	3,252.32
			2/9/2012	60.30	3,257.22
			5/16/2012	60.30	3,257.22
			8/31/2012	60.30	3,257.22
			11/2/2012	59.97	3,257.55
			2/7/2013	60.55	3,256.97
			5/10/2013	60.48	3,257.04
			9/4/2013	60.80	3,256.72
			8/12/2014	60.66	3,256.86
			10/23/2014	60.13	3,257.39
			1/23/2015	60.03	3,257.49
			4/20/2015	59.88	3,257.64
			9/30/2015	59.84	3,257.68
			12/15/2015	59.74	3,257.78
			3/16/2016	59.64	3,257.88
			6/29/2016	59.69	3,257.83
			9/30/2016	59.76	3,257.76
			11/30/2016	59.68	3,257.84
			5/10/2017	59.73	3,257.79
			11/16/2017	59.75	3,257.77
			5/13/2018	59.77	3,257.75
			11/7/2018	59.10	3,258.42
			5/15/2019	59.99	3,257.53
			7/15/2020	60.20	3,257.32
			4/21/2021	60.50	3,257.02
			4/12/2022	DRY	--
			4/27/2023	DRY	--
MW-4	3,317.06	68.95	6/26/2009	59.36	3,257.70
			3/25/2010	59.50	3,257.56
			6/28/2010	59.12	3,257.94
			10/29/2010	59.58	3,257.48
			2/8/2011	59.61	3,257.45
			9/28/2011	59.78	3,257.28
			12/1/2011	59.25	3,257.81
			2/9/2012	59.85	3,257.21
			5/16/2012	59.85	3,257.21
			8/31/2012	59.80	3,257.26
			11/2/2012	59.80	3,257.26
			2/7/2013	60.10	3,256.96
			5/10/2013	60.63	3,256.43
			9/4/2013	60.21	3,256.85
			8/12/2014	60.22	3,256.84
			10/23/2014	59.69	3,257.37
			1/23/2015	59.59	3,257.47
			4/20/2015	59.43	3,257.63
			9/30/2015	59.39	3,257.67
			12/15/2015	59.29	3,257.77
			3/16/2016	59.20	3,257.86
			6/29/2016	59.26	3,257.80
			9/30/2016	59.32	3,257.74
			11/30/2016	59.23	3,257.83
			5/10/2017	59.29	3,257.77
			11/16/2017	59.32	3,257.74
			5/13/2018	59.34	3,257.72
			11/7/2018	59.52	3,257.54
			5/15/2019	59.54	3,257.52
			7/15/2020	59.77	3,257.29
			4/21/2021	60.06	3,257.00
			4/12/2022	60.24	3,256.82
			4/27/2023	60.40	3,256.66

Notes:
1) ft = feet
2) AMSL = above mean sea level
3) TOC = top of casing
4) --- = not applicable

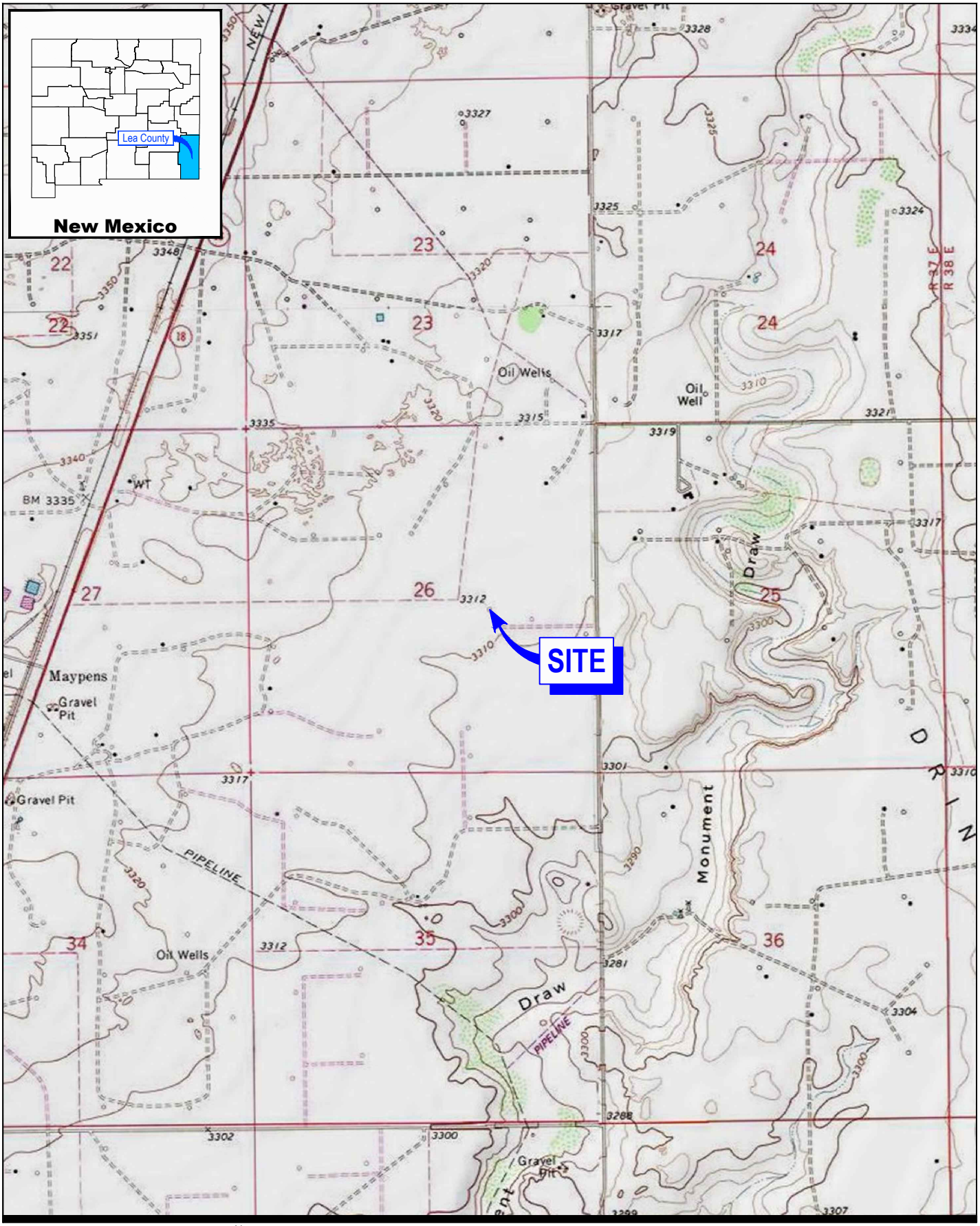
Table 2
Summary of Groundwater Analytical Results
Boyd Compressor Station
Lea County, New Mexico
ET Gathering and Processing LLC
NMOCD AP 106

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	TDS
NMWQCC Standards		**0.005**	**1.0**	**0.7**	**0.62**	**250**	**1,000**
MW-1	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	**2,610**	--
	3/25/2010	0.00150	0.00190	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.00200	<0.00100	<0.00100	**6,000**	--
	10/29/2010	<0.00100	<0.00200	<0.00100	<0.00100	**5,910**	--
	2/8/2011	<0.00100	<0.00200	<0.00100	<0.00100	**5,400**	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	**4,250**	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	**4,050**	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	**3,800**	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	**3,420**	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	**3,580**	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	**3,100**	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	**3,680**	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	**3,590**	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	**3,230**	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	**2,390**	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	**1,680**	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	**1,980**	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	**2,630**	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	**2,710**	--
	9/30/2015	--	--	--	--	**3,100**	**5,860**
	12/15/2015	--	--	--	--	**1,700**	**3,680**
	3/16/2016	--	--	--	--	**2,800**	**4,940**
	6/29/2016	--	--	--	--	**1,700**	**3,480**
	9/30/2016	--	--	--	--	**2,000**	**3,710**
	11/30/2016	--	--	--	--	**2,000**	**3,340**
	5/10/2017	--	--	--	--	**2,500**	**4,080**
	11/16/2017	--	--	--	--	**1,900**	**3,930**
	5/13/2018	--	--	--	--	**1,600**	**3,410**
	11/7/2018	--	--	--	--	**1,100**	--
	5/15/2019	--	--	--	--	**1,100**	**2,320**
	7/15/020	--	--	--	--	**810**	**1,990**
	4/21/2021	--	--	--	--	**400**	**1,320**
	4/12/2022	--	--	--	--	**300**	**1,160**
	4/27/2023	--	--	--	--	**350**	**1,180**
MW-2	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	145	--
	3/25/2010	<0.00100	0.00130	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.0020	<0.00100	<0.00100	130	--
	10/29/2010	<0.00100	<0.0020	<0.00100	<0.00100	141	--
	2/8/2011	<0.00100	<0.0020	<0.00100	<0.00100	126	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	148	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	126	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	129	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	135	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	132	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	164	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	169	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	144	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	155	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	161	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	139	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	149	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	127	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	193	--
	9/30/2015	--	--	--	--	180	--
	12/15/2015	--	--	--	--	170	880
	3/16/2016	--	--	--	--	180	870
	6/29/2016	--	--	--	--	170	866
	9/30/2016	--	--	--	--	170	857
	11/30/2016	--	--	--	--	180	947
	5/10/2017	--	--	--	--	160	765
	11/16/2017	--	--	--	--	160	865
	5/13/2018	--	--	--	--	130	860
	11/7/2018	--	--	--	--	120	--
	5/15/2019	--	--	--	--	110	756
	7/15/2020	--	--	--	--	88	688
	4/21/2021	--	--	--	--	140	744
	4/12/2022	--	--	--	--	160	790.00
	4/27/2023	--	--	--	--	180	786.00

Table 2
Summary of Groundwater Analytical Results
Boyd Compressor Station
Lea County, New Mexico
ET Gathering and Processing LLC
NMOCD AP 106

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	TDS
NMWQCC Standards		**0.005**	**1.0**	**0.7**	**0.62**	**250**	**1,000**
MW-3	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	150	--
	3/25/2010	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.00200	<0.00100	<0.00100	124	--
	10/29/2010	<0.00100	<0.00200	<0.00100	<0.00100	124	--
	2/8/2011	<0.00100	<0.00200	<0.00100	<0.00100	109	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	138	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	115	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	107	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	110	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	109	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	126	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	127	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	100	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	115	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	117	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	105	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	97	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	81	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	88	--
	9/30/2015	--	--	--	--	170	740
	12/15/2015	--	--	--	--	160	852
	3/16/2016	--	--	--	--	110	740
	6/29/2016	--	--	--	--	120	810
	9/30/2016	--	--	--	--	130	772
	11/30/2016	--	--	--	--	200	980
	5/10/2017	--	--	--	--	170	765
	11/16/2017	--	--	--	--	150	824
	5/13/2018	--	--	--	--	170	888
	11/7/2018	--	--	--	--	140	--
	5/15/2019	--	--	--	--	140	772
	7/15/2020	--	--	--	--	130	840
	4/21/2021	--	--	--	--	130	752
MW-4	1/15/2009	<0.00100	<0.00100	<0.00100	<0.00100	208	--
	3/25/2010	<0.00100	<0.00100	<0.00100	<0.00100	--	--
	7/1/2010	<0.00100	<0.0020	<0.00100	<0.00100	187	--
	10/29/2010	<0.00100	<0.0020	<0.00100	<0.00100	196	--
	2/8/2011	<0.00100	<0.0020	<0.00100	<0.00100	180	--
	9/28/2011	<0.00500	<0.00500	<0.00500	<0.0100	221	--
	12/1/2011	<0.00100	<0.00200	<0.00100	<0.00200	206	--
	2/9/2012	<0.00100	<0.00200	<0.00100	<0.00200	214	--
	5/16/2012	<0.00100	<0.00200	<0.00100	<0.00200	195	--
	8/31/2012	<0.00100	<0.00200	<0.00100	<0.00100	216	--
	11/2/2012	<0.00100	<0.00200	<0.00100	<0.00100	216	--
	2/7/2013	<0.00100	<0.00200	<0.00100	<0.00200	227	--
	5/10/2013	<0.00100	<0.00200	<0.00100	<0.00200	201	--
	9/4/2013	<0.00100	<0.00200	<0.00100	<0.00200	195	--
	2/28/2014	<0.00100	<0.00200	<0.00100	<0.00100	199	--
	8/12/2014	<0.00100	<0.00200	<0.00100	<0.00100	203	--
	10/23/2014	<0.00100	<0.00100	<0.00100	<0.00100	192	--
	1/23/2015	<0.00100	<0.00100	<0.00100	<0.00100	197	--
	4/20/2015	<0.00100	<0.00100	<0.00100	<0.00100	215	--
	9/30/2015	--	--	--	--	200	930
	12/15/2015	--	--	--	--	210	980
	3/16/2016	--	--	--	--	210	956
	6/29/2016	--	--	--	--	200	950
	9/30/2016	--	--	--	--	190	904
	11/30/2016	--	--	--	--	190	985
	5/10/2017	--	--	--	--	200	870
	11/16/2017	--	--	--	--	180	955
	5/13/2018	--	--	--	--	200	968
	11/7/2018	--	--	--	--	190	--
	5/15/2019	--	--	--	--	210	942
	7/15/2020	--	--	--	--	**250**	**1,060**
	4/21/2021	--	--	--	--	240	**1,060**
	4/12/2022	--	--	--	--	**300**	**1,090**
	4/27/2023	--	--	--	--	**300**	**1,030**

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



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
BOYD COMPRESSOR STATION

SITE LOCATION MAP

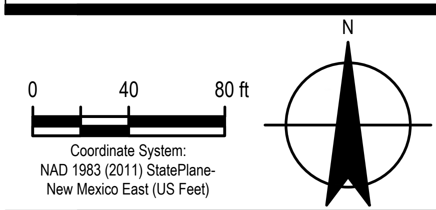
Project No. **12603931**
Date **October 2023**

DRAFT

FIGURE 1

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12603931\Digital_Design\ACAD\Figures\RPT001\12603931-GHD-00-00-EN-RPT-D101_DL-001.dwg
Plot Date: 17 October 2023 1:01 AM

Source: USGS 7.5 Minute Quad "Rattlesnake Canyon and Eunice SE, New Mexico"
Lat/Long: 32.362468° North, 103.130500° West



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

ET GATHERING & PROCESSING LLC
LEA COUNTY, NEW MEXICO
BOYD COMPRESSOR STATION

DRAFT

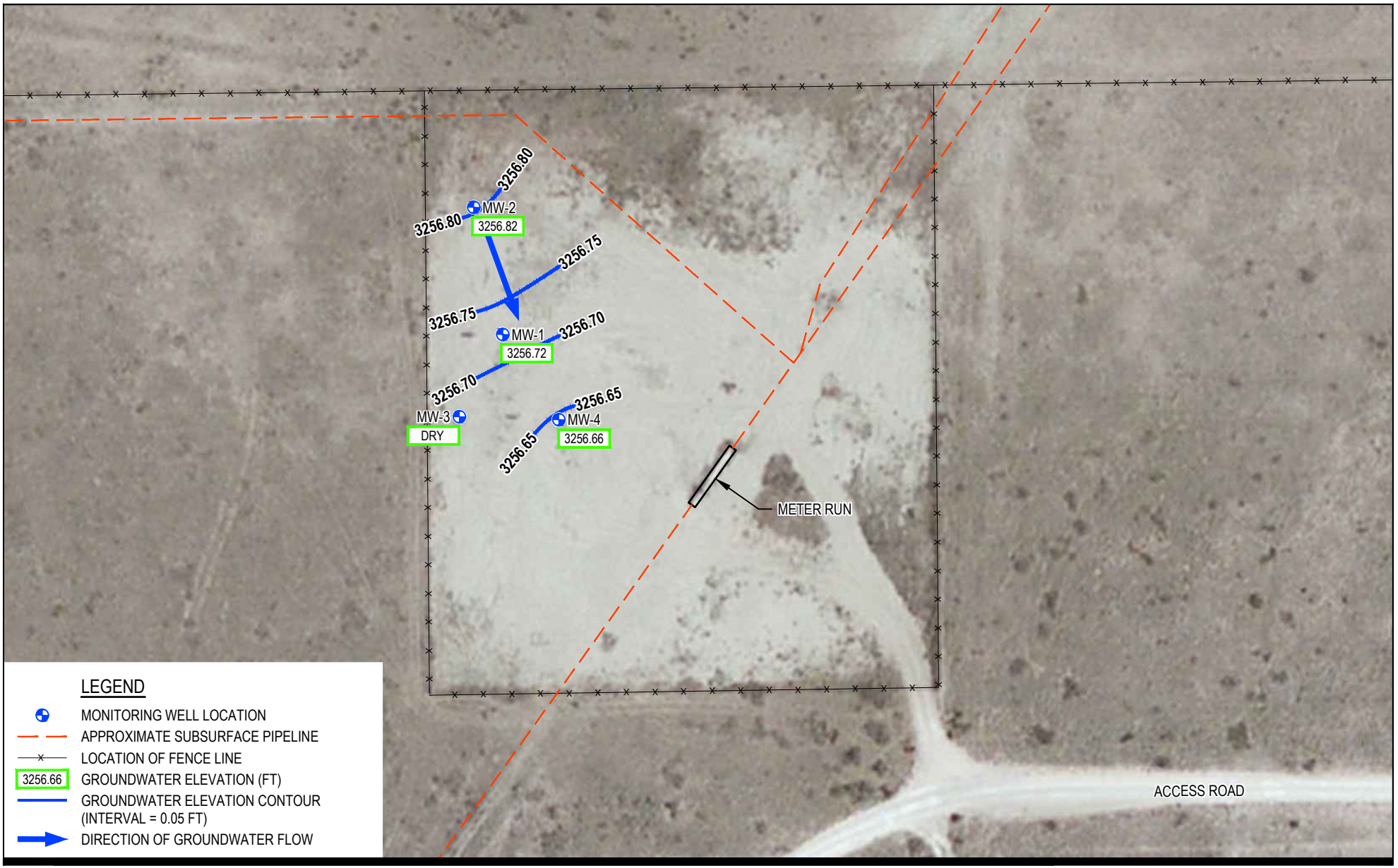
SITE DETAILS MAP

Project No. **12603931**
Date **November 2023**

FIGURE 2

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12603931\Digital_Design\ACAD\Figures\RPT001\12603931-GHD-00-00-EN-RPT-D101_DL-001.dwg

Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.362468° North, 103.130500° West



GHD

ET GATHERING & PROCESSING LLC
LEA COUNTY, NEW MEXICO
BOYD COMPRESSOR STATION

DRAFT

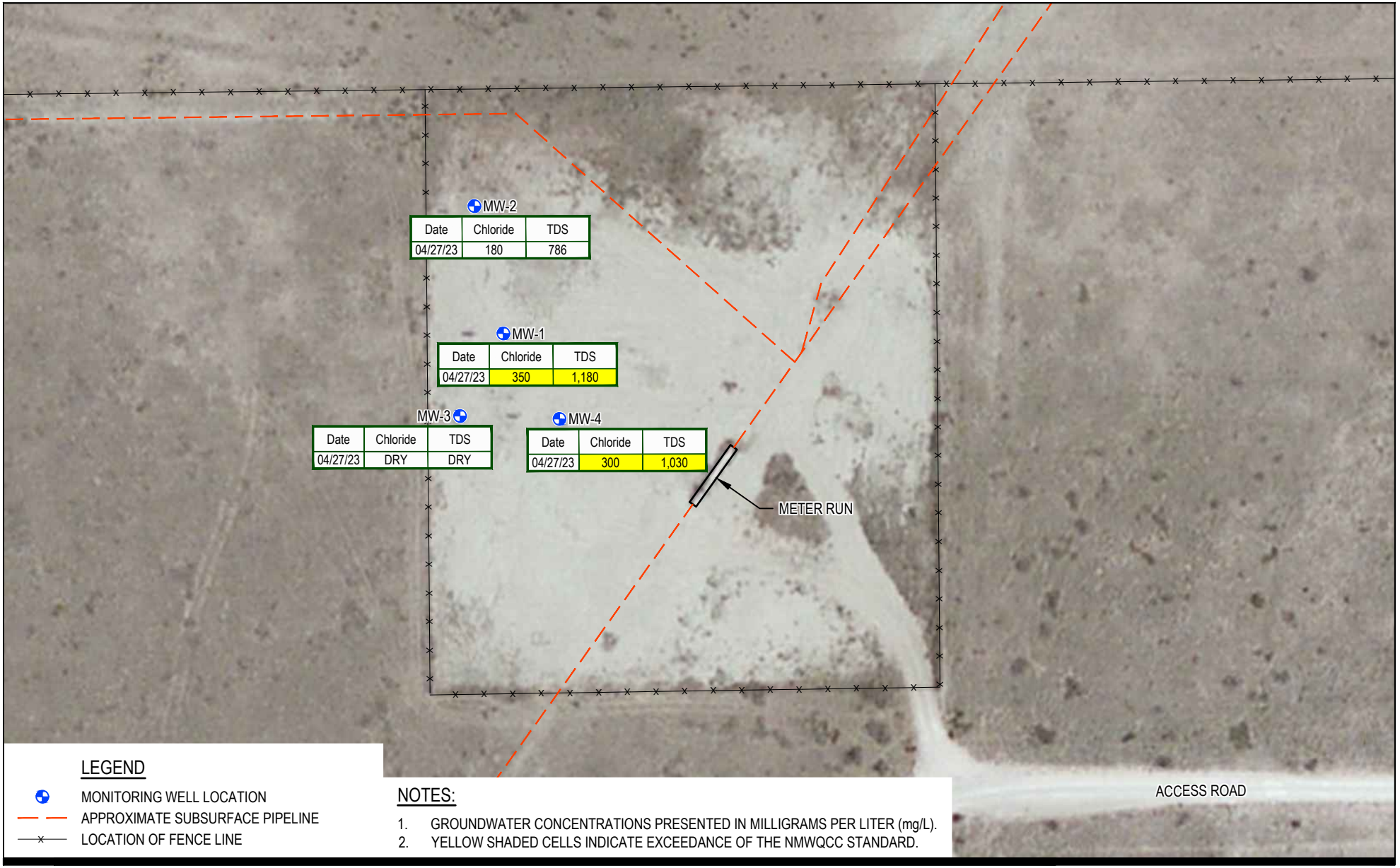
APRIL 2023
POTENTIOMETRIC SURFACE MAP

Project No. **12603931**
Date **November 2023**

FIGURE 3

Filename: \\ohdnet\ghd\US\Albuquerque\Projects\562\12603931\Digital_Design\ACAD\Figures\RPT001\12603931-GHD-00-00-EN-RPT-D101_DL-001.dwg

Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.362468° North, 103.130500° West



LEGEND

- MONITORING WELL LOCATION
- APPROXIMATE SUBSURFACE PIPELINE
- LOCATION OF FENCE LINE

NOTES:

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

0 40 80 ft

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

N

GHD

ET GATHERING & PROCESSING LLC
LEA COUNTY, NEW MEXICO
BOYD COMPRESSOR STATION

DRAFT

COC CONCENTRATIONS
IN GROUNDWATER (2023)

Project No. **12603931**
Date **November 2023**

FIGURE 4

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12603931\Digital_Design\ACAD\Figures\RPT001\12603931-GHD-00-00-EN-RPT-D101_DL-001.dwg

Source: USDA FSA Imagery, May 10, 2014
Lat/Long: 32.362468° North, 103.130500° West

Appendices

Appendix A

Laboratory Analytical Report

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 12, 2023

Blair Owen
GHD
6121 Indian School Road, NE #200
Albuquerque, NM 87110
TEL: (505) 884-0672
FAX:

RE: Boyd Compressor OrderNo.: 2304C67

Dear Blair Owen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/28/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued May 08, 2023.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

DRAFT

Analytical Report
Lab Order **2304C67**
Date Reported: **6/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Client Sample ID: MW-4-20230427
Project: Boyd Compressor
Collection Date: 4/27/2023 4:50:00 PM
Lab ID: 2304C67-001 **Matrix:** GROUNDWA **Received Date:** 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	300	50	*H	mg/L	100	6/7/2023 12:36:32 PM	R97293
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	1030	100	*D	mg/L	1	5/5/2023 8:37:00 AM	74722

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2304C67**
Date Reported: **6/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Client Sample ID: MW-1-20230427
Project: Boyd Compressor
Collection Date: 4/27/2023 5:20:00 PM
Lab ID: 2304C67-002 **Matrix:** GROUNDWA **Received Date:** 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	50	*H	mg/L	100	6/7/2023 1:28:01 PM	R97293
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	1180	100	*D	mg/L	1	5/5/2023 8:37:00 AM	74722

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2304C67**
Date Reported: **6/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Client Sample ID: MW-2-20230427
Project: Boyd Compressor
Collection Date: 4/27/2023 5:40:00 PM
Lab ID: 2304C67-003
Matrix: GROUNDWA
Received Date: 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	5.0	H	mg/L	10	6/7/2023 1:40:52 PM	R97293
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	786	100	*D	mg/L	1	5/5/2023 8:37:00 AM	74722

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2304C67**
Date Reported: **6/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** DUP01
Project: Boyd Compressor **Collection Date:** 4/27/2023
Lab ID: 2304C67-004 **Matrix:** GROUNDWA **Received Date:** 4/28/2023 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	410	50	*H	mg/L	100	6/7/2023 2:19:28 PM	R97293
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **RBC**	
Total Dissolved Solids	1280	100	*D	mg/L	1	5/5/2023 8:37:00 AM	74722

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2304C67**

12-Jun-23

Client: GHD

Project: Boyd Compressor

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R97293**	RunNo: **97293**
Prep Date:	Analysis Date: **6/7/2023**	SeqNo: **3534301** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R97293**	RunNo: **97293**
Prep Date:	Analysis Date: **6/7/2023**	SeqNo: **3534302** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2304C67**
12-Jun-23

Client: GHD
Project: Boyd Compressor

Sample ID: **MB-74722**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **74722**	RunNo: **96543**
Prep Date: **5/3/2023**	Analysis Date: **5/5/2023**	SeqNo: **3499637** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-74722**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **74722**	RunNo: **96543**
Prep Date: **5/3/2023**	Analysis Date: **5/5/2023**	SeqNo: **3499638** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	50.0	1000	0	102	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD | Work Order Number: 2304C67 | RcptNo: 1

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

Completed By: Cheyenne Cason 4/28/2023 4:50:30 PM

Reviewed By: JN 5/1/23

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____ 5/1/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Not Present	Morty		

DRAFT

Chain-of-Custody Record

Client: Enterprise

Mailing Address: 614 Eubank School Rd ABQ, NM 87140

Phone #: 505-934-0502

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type) Excel

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Boyd Compressor

Project #: 12603931

Project Manager: Blair Owen

Sampler:
On Ice: ☑ Yes ☐ No
# of Coolers: 1 metal
Cooler Temp (including CF): 2.7 - 0.1 = 2.6 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2304C67	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TDS
4/27	1650	GW	MW-4-20230427	1 500mL	none	001							X				X
4/27	1720	GW	MW-1-20230427	↓		002							X				X
4/27	1740	GW	MW-2-20230427			003							X				X
4/27	—	GW	DUP#1			004							X				X

Date: 4/28 Time: 1620 Relinquished by:

Received by: Via: COC Date: 4-28-23 Time: 16:20

Date: Time: Relinquished by:

Received by: Via: Date: Time:

Remarks:

DRAFT

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 342824

CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 342824
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Monitoring Report for Boyd Compressor Station: Content Satisfactory 1. Continue annual groundwater sampling events until COCs are at the achievable WQCC limits, and then increase to quarterly events until eight (8) consecutive sampling events below the limits are achieved. 2. Submit the 2024 Annual GW Report by April 1, 202, to OCD.	6/24/2024