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

REVIEWED
By Mike Buchanan at 8:27 am, Aug 02, 2024

Your Ref.: Incident Number nAUTOFAB000027
Our Ref.: 12621861-NMOCD-1

July 11, 2024

Review of the 2023 Annual Groundwater Monitoring Report for Artesia Tank Farm: content satisfactory.
1. Continue to conduct groundwater monitoring on a as prescribed.
2. Continue remediation efforts when accessible to remove LNAPL
3. Submit the 2024 annual report to OCD by July 1, 2025.

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

2023 Annual Groundwater Monitoring Report
Artesia Tank Farm
Centurion Pipeline, LP
Eddy County, New Mexico
New Mexico Oil Conservation Division Permit 2RP-6-0
Incident Number nAUTOFAB000027

To whom it may concern:

On behalf of Centurion Pipeline, LP (Centurion), GHD Services Inc. (GHD) is submitting the *2023 Annual Groundwater Monitoring Report* (Report) for the above-referenced property (Site) to the New Mexico Oil Conservation Division (NMOCD). The Report summarizes activities performed at the Site during 2023.

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

Regards,

Deedee Whittington
Project Manager

+1 972 331-5924
Deedee.Whittington@ghd.com

Blair Owen
Project Director

+1 561 339-3572
Blair.Owen@ghd.com

BO/kdn/1

Encl. 2023 Annual Groundwater Monitoring Report

Copy to: Stacy Boultinghouse, Energy Transfer
New Mexico State Land Office

2023 Annual Groundwater Monitoring Report

Artesia Tank Farm
Eddy County, New Mexico
NMOCD 2RP-6-0
Incident Number nAUTOFAB000027

Centurion Pipeline, LP

July 11, 2024

→ The Power of Commitment

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1. Introduction

This report presents the results of groundwater monitoring activities performed during 2023 by GHD Services Inc. (GHD) at the Centurion Pipeline, LP (Centurion), Artesia Tank Farm (Site). The Site is located 12 miles southeast of Artesia, New Mexico in Section 10, Township 18 South, and Range 27 East. Geographic coordinates for the Site are 32.761507° North and 104.270481° West (**Figure 1**). The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under remediation permit number 2RP-6 and associated with incident number nAUTOFAB000027.

1.1 Site Description Background

The Site consists of an active crude oil storage tank facility and associated subgrade pipelines. The Site has been in active assessment and remediation since 1993 when a release was discovered at the Site. A total of 23 soil borings and nineteen monitoring wells have been installed at the Site between 1993 and 2016. Seventeen of the nineteen monitoring wells have been plugged. **Figure 2** shows the well locations and other Site features.

In March 1993, a crude oil release was discovered at the Artesia Tank Farm. In August 1993, Initial assessment activities, which included the advancement of 23 soil borings at the Site, identified impacts from light non-aqueous phase liquid (LNAPL) extended approximately 1,700 feet off-Site, along Scoggin Draw. An interceptor trench and associated groundwater separation/air-stripper remediation system were installed in November 1994 to control and remediate the LNAPL and dissolved-phase hydrocarbon plume. Seventeen monitoring wells (MW-1 through MW-14, MW-2A, MW-3A, and MW-3B) were subsequently installed along Scoggin Draw to evaluate and delineate the extent of the groundwater impact. Quarterly groundwater monitoring and reporting were performed until 1997, when the remediation system was shut down. The remediation system was subsequently dismantled in the fall of 1998. Between June 2003 and November 2013, all seventeen monitoring wells were plugged and abandoned following NMOCD approval. **H**istoric well locations and remediation systems are depicted on **Figure 3.**

According to a status report submitted to the NMOCD on April 4, 2012, analytical data demonstrated general trends associated with biodegradation of residual petroleum hydrocarbons and the dissolved-phase contaminant plume appeared to be non-mobile and decreasing. Additionally, chemicals of concern (COC) concentrations in groundwater underlying areas outside of the tank farm were below applicable New Mexico Water Quality Control Commission (NMWQCC) standards. Based on this and the facilities active status, additional remediation at the Site has been deferred until the Site is more accessible for removal of LNAPL.

In October 2016, two monitoring wells (MW-1 and MW-2) were installed downgradient of the Site to monitor and confirm COC concentrations in groundwater off-Site remain below applicable NMWQCC standards. Annual groundwater monitoring events have occurred at the Site since 2016.

An annual groundwater monitoring event was conducted in September 2023 and is discussed in this report.

1.2 Geology and Hydrology

The lithology encountered during previous investigation activities at the Site consisted primarily of evaporates with intermittent layers of fine-grained sand. The surface contained intermittent caliche nodules. The United States Agricultural Department soil survey indicates that the Site is in the Artesia Group which consists of fine grain sandstones, evaporates, and dolostone.

2. Groundwater Monitoring

GHD performed an annual groundwater monitoring event in September 2023. The monitoring program included gauging and collecting groundwater samples from the two monitoring wells MW-1 and MW-2.

2.1 Monitoring Well Gauging

GHD personnel measured the depth to groundwater and LNAPL thickness, if present, in the wells indicated above using an electronic oil/water interface probe (IP). LNAPL was not detected in either monitoring well in 2023. The IP was cleaned with laboratory grade soap and purified water prior to gauging each monitoring well. Depth to groundwater and calculated groundwater elevations are summarized in **Table 1**.

As the monitoring wells are not surveyed, groundwater gradient was not calculated using the data generated during the monitoring event; however, review of historical data indicates groundwater gradient is generally to the west/southwest.

2.2 Groundwater Sampling

Following gauging, 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. Purge water generated during sampling events was poured into the concrete containment area near well SVE-5. After purging, groundwater quality parameters of temperature, pH, oxidation reduction potential, and conductivity were collected with a multi-parameter groundwater quality meter to confirm stabilization of the groundwater prior to the collection of groundwater samples.

Following purging and confirmation of groundwater stabilization, groundwater samples were collected via dedicated polyethylene bailers, placed into laboratory-provided sample containers, which were labeled, immediately placed on ice in coolers, and transported under Chain-of-Custody documentation to ALS Life Sciences Division, Environmental laboratory in Houston, Texas. All samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) via the United States Environmental Protection Agency (US EPA) SW-846 Method 8260B.

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 for the groundwater monitoring event.

2.4 Analytical Results

The NMWQCC mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the 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 2023 are summarized in **Table 2**, and the corresponding laboratory analytical reports are included in Appendix A. A COC concentration map is presented as **Figure 4**. A summary of analytical results for 2023 is provided below.

– BTEX was not detected at concentrations above laboratory detection limits in the groundwater samples collected from monitoring wells MW-1 and MW-2 during 2023.

3. Summary and Recommendations

3.1 Summary

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

– LNAPL was not detected in either monitoring well in 2023
– Concentrations of BTEX were not detected above laboratory detection limits in either monitoring well during 2023

3.2 Recommendations

Based on results from the 2023 groundwater monitoring event, GHD recommends the following.

– Continue annual groundwater monitoring until Site is more accessible for additional assessment and remediation efforts.

4. Scope and limitations

This report has been prepared by GHD for Centurion Pipeline, LP and may only be used and relied on by Centurion Pipeline, LP for the purpose agreed between GHD and Centurion Pipeline, LP.

GHD otherwise disclaims responsibility to any person other than Centurion Pipeline, LP arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

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

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

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

Table 1

Summary of Groundwater Elevation Data
Artesia Tank Farm
Eddy County, New Mexico
Centurion Pipeline, LP
NMOCD 2RP 6-0

Well ID	Measurement Date	Depth to Bottom of Screen Interval (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet AMSL)
MW-1	11/30/2016	60.00	28.99	3419.59
	7/12/2017	62.88	30.84	3417.74
	7/10/2018	--	--	--
	9/27/2019	--	36.52	3412.06
	8/13/2020	62.60	33.67	3414.91
	9/24/2021	62.60	32.95	3415.63
	8/10/2022	62.60	35.88	3412.7
	9/28/2023	62.82	36.61	3411.97
MW-2	11/30/2016	60.00	28.99	3427.89
	7/12/2017	62.38	30.84	3426.04
	7/10/2018	--	--	--
	9/27/2019	--	36.52	3420.36
	8/13/2020	62.30	33.67	3423.21
	9/24/2021	62.30	32.95	3423.93
	8/10/2022	62.30	35.88	3421.00
	9/28/2023	62.38	35.84	3421.04

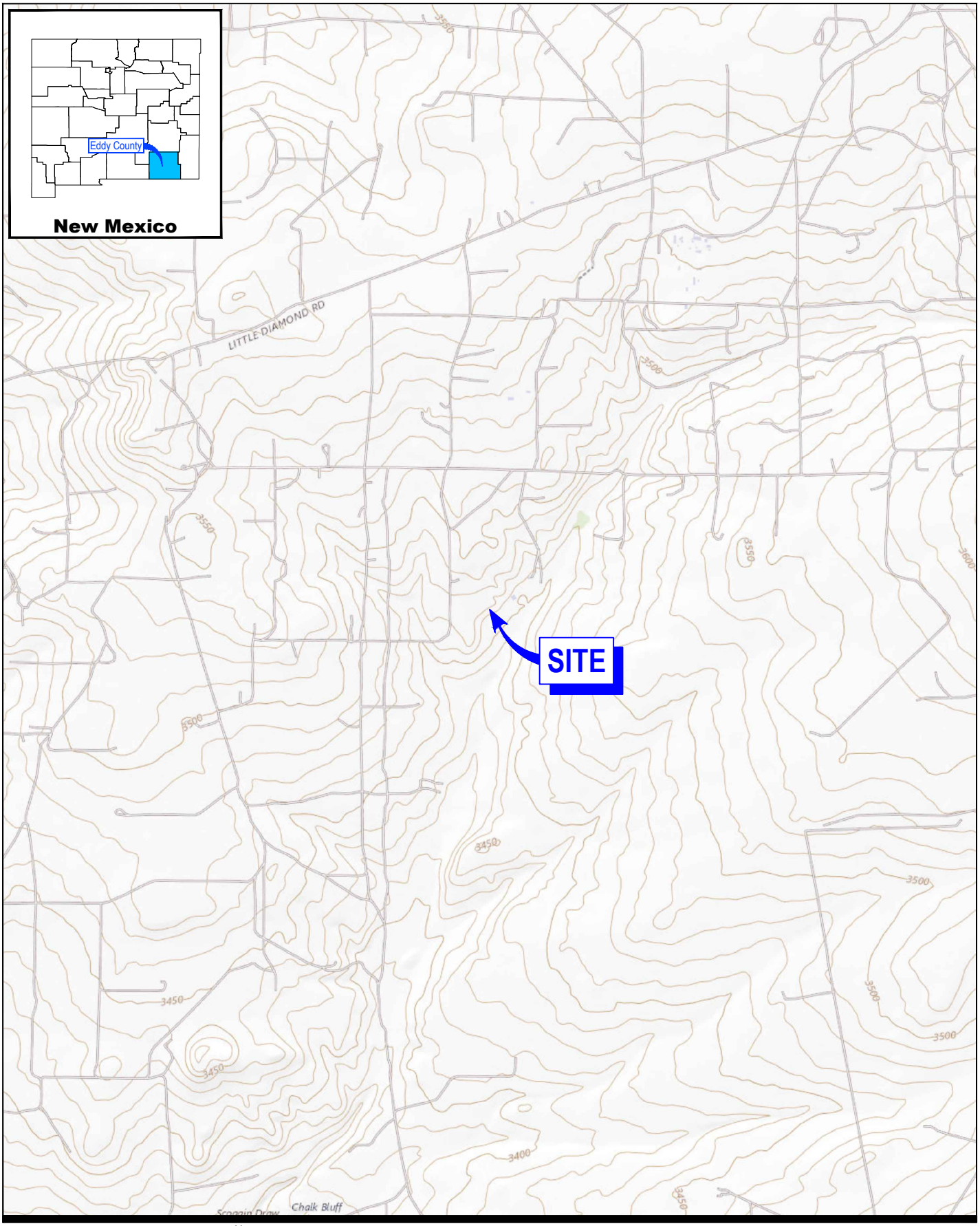
Notes:
1. feet AMSL = Feet above mean sea level

Table 2

Summary of Groundwater Analytical Results
Artesia Tank Farm
Eddy County, New Mexico
Centurion Pipeline, LP
NMOCD 2RP 6-0

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standards		**0.01**	**0.75**	**0.75**	**0.62**
MW-1	11/30/2016	0.0006	<0.00050	<0.00050	<0.00050
	7/12/2017	<0.00060	<0.00050	<0.00050	<0.00050
	7/10/2018	<0.000408	<0.000367	<0.000657	<0.00063
	9/27/2019	<0.000408	<0.000367	<0.000657	<0.00063
	8/13/2020	0.00047 J	0.00171 J	<0.000657	<0.00063
	9/24/2021	0.000756 J	0.00145 J	<0.000657	0.000678 J
	8/10/2022	<0.000408	<0.000367	<0.000657	<0.000642
	9/28/2023	<0.0010	<0.0010	<0.0010	<0.0030
MW-2	11/30/2016	0.0023 J	<0.00050	<0.00050	0.0035 J
	7/12/2017	<0.00060	<0.00050	<0.00050	<0.00050
	7/10/2018	<0.000408	<0.000367	<0.000657	<0.000630
	9/27/2019	<0.000408	<0.000367	<0.000657	<0.000630
	8/13/2020	0.00141 J	0.00175 J	<0.000657	0.00073 J
	9/24/2021	<0.00408	<0.00367	<0.000657	<0.000642
	8/10/2022	0.000685 J	0.000645 J	<0.000657	<0.000642
	9/28/2023	<0.0010	<0.0010	<0.0010	<0.0030

Notes:
1. Analytical results are presented in milligrams per liter (mg/L).
2. NMWQCC = New Mexico Water Quality Control Commision.
3. 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

CENTURION PIPELINE, LP
EDDY COUNTY, NEW MEXICO
ARTESIA TANK FARM
NMOCD 2RP-6

Project No. **12621861**
Date **April 2024**

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12621861\Digital_Design\ACAD\Figures\RPT001\12621861-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 10 April 2024 3:49 PM

Data Source: USGS 7.5 Minute quad "Spring Lake, Lake McMillan North, Red Lake, and Illinois Camp, NM"
Lat/Long: 32.761507° North, 104.270481° West

N

0 100 200 ft

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

GHD

CENTURION PIPELINE, LP
EDDY COUNTY, NEW MEXICO
ARTESIA TANK FARM
NMOCD 2RP-6

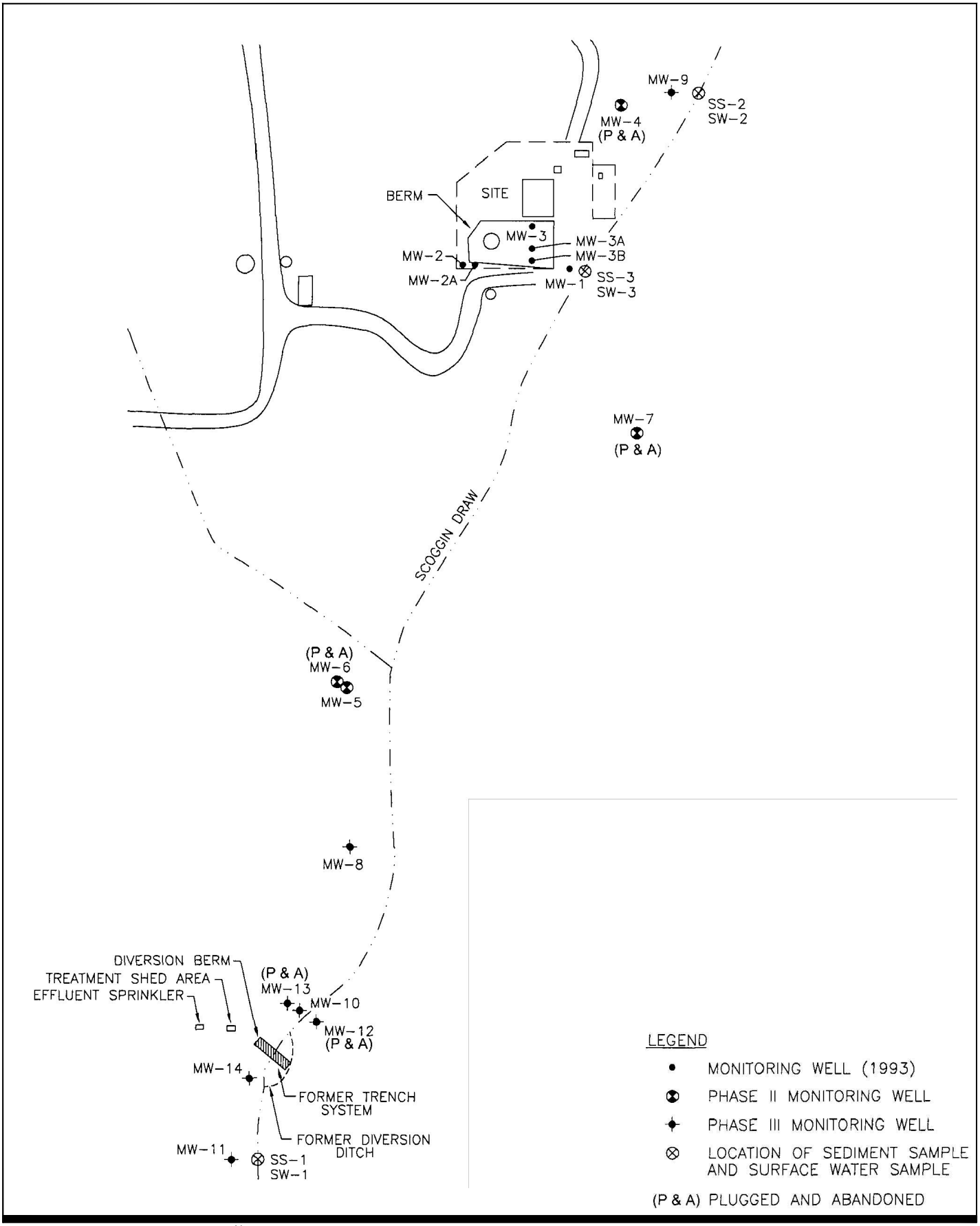
Project No. **12621861**
Date **April 2024**

SITE DETAILS MAP

FIGURE 2

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12621861\Digital_Design\ACAD\Figures\RPT001\12621861-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 10 April 2024 3:48 PM

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.761507° North, 104.270481° West



ET GATHERING & PROCESSING, LLC
EDDY COUNTY, NEW MEXICO
ARTESIA TANK FARM
NMOCD 2RP-6-0

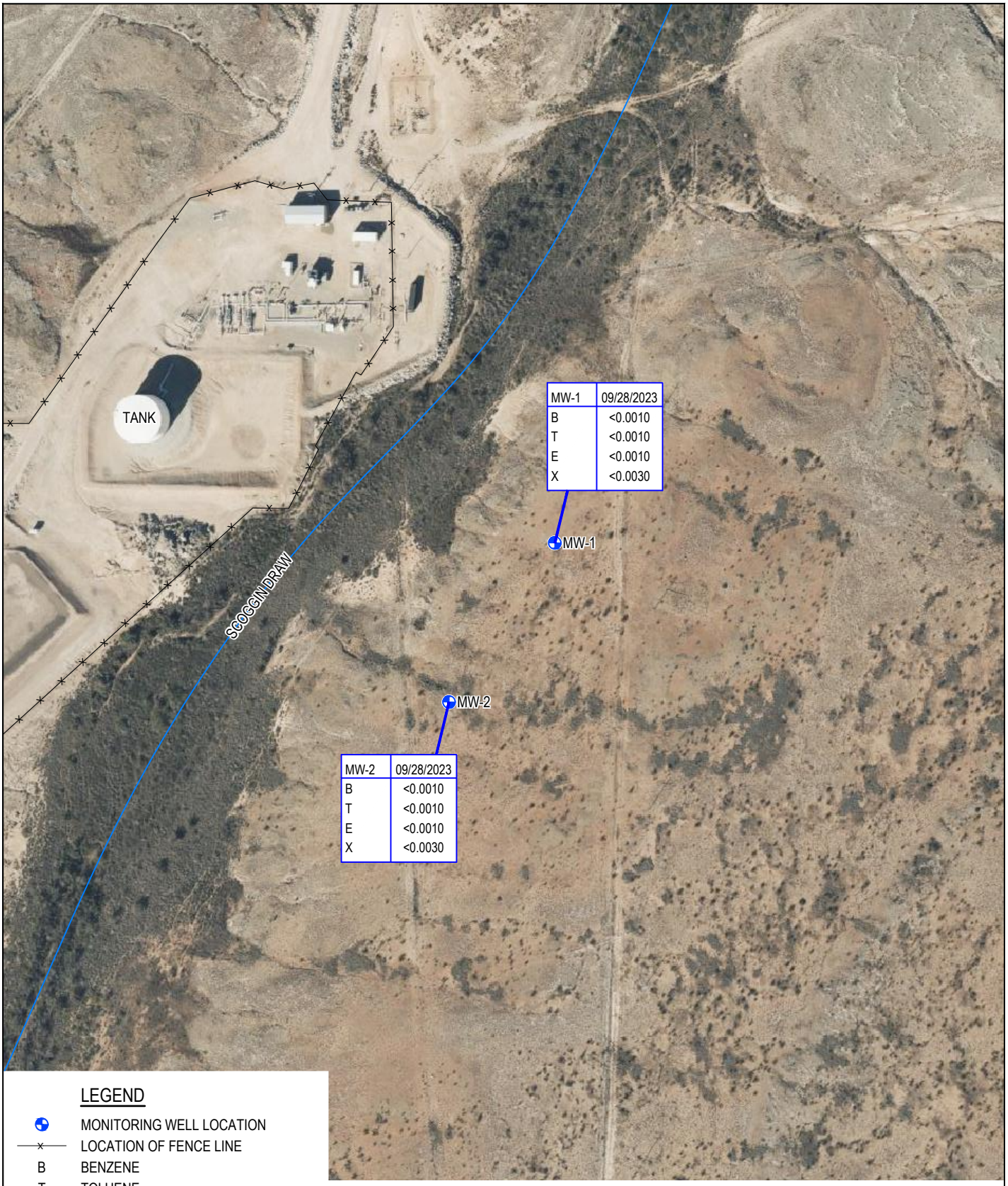
Project No. **12621861**
Date **July 2024**

HISTORIC SITE DETAILS MAP

FIGURE 3

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12621861\Digital_Design\ACAD\Figures\PRE001\12621861-GHD-00-00-PRE-EN-D101_DL-001.dwg
Plot Date: 11 July 2024 9:06 AM

Data Source: Delta Environmental Consultants, Inc.; Figure 2 "Site Map"
File Name: Artesia-2004; Project Number: F002-007



LEGEND

- MONITORING WELL LOCATION
- LOCATION OF FENCE LINE
- B BENZENE
- T TOLUENE
- E ETHYLBENZENE
- X XYLENES

NOTE:

1. GROUNDWATER CONCENTRATION PRESENTED IN MILLIGRAMS PER LITER (mg/L).

0 100 200 ft

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

N

GHD

CENTURION PIPELINE, LP
EDDY COUNTY, NEW MEXICO
ARTESIA TANK FARM
NMOCD 2RP-6

COC CONCENTRATIONS IN GROUNDWATER MAP (2023)

Project No. **12621861**
Date **April 2024**

FIGURE 4

Filename: \\ghdnet\ghd\US\Albuquerque\Projects\562\12621861\Digital_Design\ACAD\Figures\RPT001\12621861-GHD-00-00-RPT-EN-D101_DL-001.dwg
Plot Date: 10 April 2024 3:48 PM

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.761507° North, 104.270481° West

Appendices

Appendix A

2023 Laboratory Analytical Reports

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

October 05, 2023

Chris Knight
GHD
11451 Katy Fwy
Suite 400
Houston, TX 77079

Work Order: **HS23100137**

Laboratory Results for: **12621861 - ET Artesia Tank Farm**

Dear Chris Knight,

ALS Environmental received 4 sample(s) on Oct 03, 2023 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: DAYNA.FISHER
James Guin

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
Work Order: HS23100137

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23100137-01	MW-1-20230928	Groundwater		28-Sep-2023 11:50	03-Oct-2023 09:45	☐
HS23100137-02	MW-2-20230928	Groundwater		28-Sep-2023 12:30	03-Oct-2023 09:45	☐
HS23100137-03	DUP-01-20230928	Groundwater		28-Sep-2023 00:00	03-Oct-2023 09:45	☐
HS23100137-04	CG-071023-964	Water		28-Sep-2023 00:00	03-Oct-2023 09:45	☑

ALS Houston, US Date: 05-Oct-23

Client: GHD **CASE NARRATIVE**
Project: 12621861 - ET Artesia Tank Farm
Work Order: HS23100137

GCMS Volatiles by Method SW8260

Batch ID: R448200

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

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
Sample ID: MW-1-20230928
Collection Date: 28-Sep-2023 11:50

ANALYTICAL REPORT
WorkOrder:HS23100137
Lab ID:HS23100137-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 16:57
Ethylbenzene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 16:57
Toluene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 16:57
Xylenes, Total	< 0.0030		0.0030	mg/L	1	04-Oct-2023 16:57
Surr: 1,2-Dichloroethane-d4	*98.5*		*70-126*	*%REC*	*1*	*04-Oct-2023 16:57*
Surr: 4-Bromofluorobenzene	*97.1*		*77-113*	*%REC*	*1*	*04-Oct-2023 16:57*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*04-Oct-2023 16:57*
Surr: Toluene-d8	*90.9*		*82-127*	*%REC*	*1*	*04-Oct-2023 16:57*

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

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
Sample ID: MW-2-20230928
Collection Date: 28-Sep-2023 12:30

ANALYTICAL REPORT
WorkOrder:HS23100137
Lab ID:HS23100137-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 17:18
Ethylbenzene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 17:18
Toluene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 17:18
Xylenes, Total	< 0.0030		0.0030	mg/L	1	04-Oct-2023 17:18
Surr: 1,2-Dichloroethane-d4	*97.5*		*70-126*	*%REC*	*1*	*04-Oct-2023 17:18*
Surr: 4-Bromofluorobenzene	*96.7*		*77-113*	*%REC*	*1*	*04-Oct-2023 17:18*
Surr: Dibromofluoromethane	*101*		*77-123*	*%REC*	*1*	*04-Oct-2023 17:18*
Surr: Toluene-d8	*93.6*		*82-127*	*%REC*	*1*	*04-Oct-2023 17:18*

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

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
Sample ID: DUP-01-20230928
Collection Date: 28-Sep-2023 00:00

ANALYTICAL REPORT
WorkOrder:HS23100137
Lab ID:HS23100137-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 17:38
Ethylbenzene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 17:38
Toluene	< 0.0010		0.0010	mg/L	1	04-Oct-2023 17:38
Xylenes, Total	< 0.0030		0.0030	mg/L	1	04-Oct-2023 17:38
Surr: 1,2-Dichloroethane-d4	*98.1*		*70-126*	*%REC*	*1*	*04-Oct-2023 17:38*
Surr: 4-Bromofluorobenzene	*96.8*		*77-113*	*%REC*	*1*	*04-Oct-2023 17:38*
Surr: Dibromofluoromethane	*102*		*77-123*	*%REC*	*1*	*04-Oct-2023 17:38*
Surr: Toluene-d8	*91.2*		*82-127*	*%REC*	*1*	*04-Oct-2023 17:38*

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

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
WorkOrder: HS23100137

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R448200 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Groundwater	
HS23100137-01	MW-1-20230928	28 Sep 2023 11:50			04 Oct 2023 16:57	1
HS23100137-02	MW-2-20230928	28 Sep 2023 12:30			04 Oct 2023 17:18	1
HS23100137-03	DUP-01-20230928	28 Sep 2023 00:00			04 Oct 2023 17:38	1

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
WorkOrder: HS23100137

QC BATCH REPORT

Batch ID: R448200 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-231004** Units: **ug/L** Analysis Date: **04-Oct-2023 10:06**
Client ID: Run ID: **VOA7_448200** SeqNo: **7586192** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 1.0	1.0								
Ethylbenzene	< 1.0	1.0								
Toluene	< 1.0	1.0								
Xylenes, Total	< 3.0	3.0								
Surr: 1,2-Dichloroethane-d4	*48.88*	*1.0*	*50*	*0*	*97.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.22*	*1.0*	*50*	*0*	*98.4*	*77 - 113*				
Surr: Dibromofluoromethane	*50.03*	*1.0*	*50*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*46.23*	*1.0*	*50*	*0*	*92.5*	*81 - 120*				

LCS Sample ID: **VLCSW-231004** Units: **ug/L** Analysis Date: **04-Oct-2023 09:25**
Client ID: Run ID: **VOA7_448200** SeqNo: **7586191** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.27	1.0	20	0	96.3	74 - 120				
Ethylbenzene	19.11	1.0	20	0	95.6	77 - 117				
Toluene	18.24	1.0	20	0	91.2	77 - 118				
Xylenes, Total	55.98	3.0	60	0	93.3	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.29*	*1.0*	*50*	*0*	*101*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*50.36*	*1.0*	*50*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*51.38*	*1.0*	*50*	*0*	*103*	*73 - 126*				
Surr: Toluene-d8	*46.89*	*1.0*	*50*	*0*	*93.8*	*81 - 120*				

MS Sample ID: **HS23091890-17MS** Units: **ug/L** Analysis Date: **04-Oct-2023 12:30**
Client ID: Run ID: **VOA7_448200** SeqNo: **7586199** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	905.2	50	1000	0	90.5	70 - 127				
Ethylbenzene	892	50	1000	0	89.2	70 - 124				
Toluene	852.7	50	1000	0	85.3	70 - 123				
Xylenes, Total	2629	150	3000	0	87.6	70 - 130				
Surr: 1,2-Dichloroethane-d4	*2572*	*50*	*2500*	*0*	*103*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*2532*	*50*	*2500*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*2609*	*50*	*2500*	*0*	*104*	*77 - 123*				
Surr: Toluene-d8	*2372*	*50*	*2500*	*0*	*94.9*	*82 - 127*				

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
WorkOrder: HS23100137

QC BATCH REPORT

Batch ID: R448200 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MSD Sample ID: **HS23091890-17MSD** Units: **ug/L** Analysis Date: **04-Oct-2023 12:51**
Client ID: Run ID: **VOA7_448200** SeqNo: **7586200** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	870.6	50	1000	0	87.1	70 - 127	905.2	3.9	20	
Ethylbenzene	853.7	50	1000	0	85.4	70 - 124	892	4.39	20	
Toluene	807.1	50	1000	0	80.7	70 - 123	852.7	5.49	20	
Xylenes, Total	2494	150	3000	0	83.1	70 - 130	2629	5.3	20	
Surr: 1,2-Dichloroethane-d4	*2545*	*50*	*2500*	*0*	*102*	*70 - 126*	*2572*	*1.04*	*20*	
Surr: 4-Bromofluorobenzene	*2563*	*50*	*2500*	*0*	*103*	*77 - 113*	*2532*	*1.2*	*20*	
Surr: Dibromofluoromethane	*2565*	*50*	*2500*	*0*	*103*	*77 - 123*	*2609*	*1.71*	*20*	
Surr: Toluene-d8	*2374*	*50*	*2500*	*0*	*94.9*	*82 - 127*	*2372*	*0.0755*	*20*	

The following samples were analyzed in this batch: HS23100137-01 HS23100137-02 HS23100137-03

ALS Houston, US Date: 05-Oct-23

Client: GHD
Project: 12621861 - ET Artesia Tank Farm
WorkOrder: **HS23100137**

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

ALS Houston, US Date: 05-Oct-23

Sample Receipt Checklist

Work Order ID: HS23100137 **Date/Time Received:** 03-Oct-2023 09:45

Client Name: GHDHouston **Received by:** Malcolm Burleson

Completed By: /S/ Paresh M. Giga (eSignature) 03-Oct-2023 18:07 (Date/Time) **Reviewed by:** /S/ James Guin (eSignature) 04-Oct-2023 16:39 (Date/Time)

Matrices: GW/Water Carrier name: FedEx Priority Overnight

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:307314
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):	2.5C/2.4C U/C	IR31	
Cooler(s)/Kit(s):	Red		
Date/Time sample(s) sent to storage:	10/3/23 18:15		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Trip Blank logged in on hold

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
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page _____ of _____

COC ID: 307314

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	E-19002-GL-26050008 Stacy Boul	Project Name	12621861 - ET Artesia Tank Farm	A	8260_LL_W (8260 BTEX)
Work Order		Project Number	12621861	B	
Company Name	GHD	Bill To Company	Energy Transfer	C	
Send Report To	Chris Knight	Invoice Attn	Stacy Boultinghouse	D	
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	Christopher.Knight@ghd.com	e-Mail Address	Stacy.Boultinghouse@energytransfer.com	J	

HS23100137

GHD

12621861 - ET Artesia Tank Farm

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1-20230928	09/28/23	1150	GW	8	3	✓										
2	MW-2-20230928	09/28/23	1230	GW	8	3	✓										
3	DUP-01-20230928	09/28/23	—	GW	8	3	✓										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Elizabeth Fair

Shipment Method: FedEx

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 Fair	Date: 10/2/23	Time: 1300	Received by:	Notes: 12621861 - ET Artesia Tank Farm	
Relinquished by:	Date:	Time:	Received by (Laboratory): 10 03 2023 0945	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	5. RED	1.2 3.1
					2.5 W.C
					-0.1 C

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SVM46/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.

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

S. Red

ODY SEAL
Date: 10 Time: 1300
Name: Da Fam
Company:

Seal Broken By:
Date: 10/03/23

S. Red OCT 0 3 2023

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 364428

CONDITIONS

Operator: CENTURION PIPELINE L.P. 516 Veterans Airpark Lane Midland, TX 79705	OGRID: 237722
	Action Number: 364428
	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 Artesia Tank Farm: content satisfactory. 1. Continue to conduct groundwater monitoring on a as prescribed. 2. Continue remediation efforts when accessible to remove LNAPL 3. Submit the 2024 annual report to OCD by July 1, 2025.	8/2/2024