

**2021 ANNUAL GROUNDWATER REPORT**

**Gallegos Canyon Unit #124E**  
**Incident Number: nAUTOAB000205**  
**Meter Code: 95608**  
**T28N, R12W, Sec 35, Unit N**

**REVIEWED**

By Nelson Velez at 10:37 am, Nov 23, 2022

**SITE DETAILS**

**Site Location:** Latitude: 36.614105 N, Longitude: -108.083662 W  
**Land Type:** Navajo  
**Operator:** Simcoe LLC

**SITE BACKGROUND**

Environmental Remediation activities at Gallegos Canyon Unit #124E (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Simcoe LLC and is active.

The Site is located on Navajo Agricultural Products Industry land. An initial site assessment was completed in January 1995, and an excavation to approximately 12 feet below ground surface (bgs) was completed in October 1995, removing approximately 196 cubic yards (cy) of soil. Monitoring wells were installed in 1995 (MW-1) and 2013 (MW-2 through MW-7). Monitoring well MW-2 was plugged and abandoned on January 19, 2014. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells and current and historical site features is provided as Figure 2. Historically, light non-aqueous phase liquid (LNAPL) has periodically been encountered and recovered from MW-1, MW-4, and MW-9. Mobile dual phase extraction (MDPE) events to enhance LNAPL recovery from MW-1 were conducted in 2017. Quarterly LNAPL recovery began in the second quarter of 2020 and has continued through 2021. Groundwater sampling is being conducted on a semi-annual basis.

**GROUNDWATER SAMPLING ACTIVITIES**

Pursuant to the Remediation Plan, Stantec Consulting Services Inc. (Stantec) provided field work notifications via electronic mail (email) to the NMOCD on May 12, 2021 and November 3, 2021, prior to initiating groundwater sampling activities at the Site. Copies of the 2021 NMOCD notifications are provided in Appendix A. On May 21 and November 12, 2021, water levels were gauged at MW-1, MW-3, MW-4, MW-5, MW-6, and MW-7. During both events, groundwater samples were collected from MW-3, MW-4, MW-5, and MW-6. LNAPL was detected at MW-1 during both events; therefore, no groundwater samples were collected from this location. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event approximately 0.5 foot above the bottom of the well screen using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins-TestAmerica Laboratories, Inc. (Eurofins) in Pensacola, Florida where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). One laboratory supplied trip blank and one blind field duplicate were also collected during each groundwater sampling event. BTEX constituents were analyzed using United States Environmental Protection Agency (EPA) Method 8260.

Review of the 2021 Annual Groundwater Report:  
[Content satisfactory](#)

1. OCD approves "Planned Future Activities" as stated in report.
2. Submit next annual report to OCD no later than March 31, 2023.

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The unused sample water was combined in a waste container and transported to Basin Disposal, Inc. (Basin) in Bloomfield, New Mexico for disposal. Waste disposal documentation is included as Appendix B.

### **LNAPL RECOVERY**

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly LNAPL recovery activities in the second calendar quarter of 2020. Documentation of NMOCD notification of site activities is provided in Appendix A. LNAPL was observed and recovered in monitoring wells MW-1 during the March, May, August, and November 2021 events.

The LNAPL recovery data is summarized on Table 1. LNAPL was recovered by hand-bailing. During the groundwater sampling site visits, the recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities in May and November. Recovered LNAPL from the May and August site visits was also transported for disposal at Basin (Appendix B).

### **SUMMARY TABLES**

Historic analytical and water level data are summarized in Table 2 and Table 3, respectively. LNAPL recovery data is summarized on Table 1.

### **SITE MAPS**

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2021 groundwater sampling and gauging events.

### **ANALYTICAL LAB REPORTS**

The groundwater analytical lab reports are included as Appendix C.

### **GROUNDWATER RESULTS**

- The groundwater elevations indicate the flow direction at the Site was to the west-southwest during 2021 (see Figures 3 and 5).
- LNAPL was observed in MW-1 during the May and November 2021 groundwater sampling events; therefore, no groundwater samples were collected at this location.
- Detectable concentrations of benzene were not reported in groundwater samples collected in 2021 from site monitoring wells.
- Detectable concentrations of toluene were not reported in groundwater samples collected in 2021 from the site monitoring wells.
- Detectable concentrations of ethylbenzene were not reported in groundwater samples collected in 2021 from the site monitoring wells.
- No detectable xylenes concentrations were reported for groundwater samples collected in 2021 from the site monitoring wells.

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- A field duplicate was collected from MW-3 during both 2021 monitoring events. No significant differences were noted between the primary and the duplicate samples for both groundwater sampling events.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2021 groundwater monitoring events.

**PLANNED FUTURE ACTIVITIES**

Monitoring well installation activities are planned for Spring 2022 to confirm the extent of LNAPL in the vicinity of MW-5, where it was observed in 2020 and 2021. A work plan to conduct the monitoring well installation activities will be submitted under separate cover.

Semi-annual groundwater monitoring is to continue in 2022. As site closure is not being recommended at this time, groundwater samples will be collected from key monitoring wells not containing LNAPL on a semi-annual basis and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. Sampling of all site monitoring wells is conducted on a biennial basis, with the next site-wide sampling event to be conducted in the fourth calendar quarter of 2022.

Pursuant to April 2, 2020 correspondence from NMOCD, quarterly site visits will continue in 2022 to facilitate removal of measurable LNAPL via hand bailing where it is present.

The activities completed in 2022 and their results will be summarized in the 2022 Annual Report, to be submitted by April 1, 2023.

## **TABLES**

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 3 – LNAPL RECOVERY SUMMARY

**TABLE 1**  
**LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY**

**Gallegos Canyon Unit #124E**

<b>Well ID - MW-1</b>	<b>Depth to LNAPL (Feet)</b>	<b>Depth to Water (Feet)</b>	<b>Measured Thickness (Feet)</b>	<b>LNAPL Recovered (gal)</b>	<b>Water Recovered (gal)</b>	<b>Recovery Type</b>
<b>Date</b>						
4/18/2016	24.92	24.99	0.07	<0.01	0.01	manual
10/14/2016	25.06	25.21	0.15	0.03	<0.01	manual
6/10/2017	25.40	25.50	0.10	0.01	NR	manual
7/20/2017	25.52	25.59	0.07	10.4	3302	MDPE Event*
9/21/2017	25.38	25.42	0.04	3.60	2757	MDPE Event*
11/11/2017	25.56	25.57	0.01	<0.01	0.01	manual
5/18/2018	25.85	25.97	0.12	<0.01	NR	manual
10/28/2018	26.15	26.41	0.26	0.02	0.02	manual
5/23/2019	26.51	27.02	0.51	0.08	NR	manual
11/11/2019	26.65	26.85	0.20	0.06	0.48	manual
5/16/2020	26.96	27.20	0.24	0.11	0.34	manual
8/18/2020	27.02	27.13	0.11	0.05	0.48	manual
11/11/2020	27.06	27.08	0.02	<0.01	0.73	manual
3/17/2021	27.34	27.36	0.02	<0.01	0.50	manual
5/21/2021	27.35	27.38	0.03	<0.01	0.08	manual
8/23/2021	27.44	27.50	0.06	<0.01	0.50	manual
11/12/2021	27.45	27.47	0.02	<0.01	0.14	manual
			<b>Total:</b>	14.4	6062	
<b>Well ID - MW-5</b>						
5/23/2019	26.12	26.31	0.19	0.01	NR	manual
11/11/2019	26.52	26.63	0.11	0.01	0.04	manual
5/16/2020	26.95	27.11	0.16	0.02	0.13	manual
8/18/2020	27.19	27.22	0.03	0.01	0.23	manual
11/11/2020	27.14	27.15	0.01	<0.01	0.17	manual
8/23/2021	ND	27.55	0.00	0.00	0.03	manual
			<b>Total:</b>	0.05	0.60	

Notes:

NR = Not Recorded.

\* = Includes calculated recovered hydrocarbon vapors.

gal = gallons

LNAPL = Light non-aqueous phase liquid

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

Gallegos Canyon Unit #124E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	06/25/98	340	271	111	510
MW-1	09/14/98	410	251	68.3	220
MW-1	12/15/98	710	1300	160	940
MW-1	03/16/99	2960	5130	367	2890
MW-1	10/05/00	NS	NS	NS	NS
MW-1	11/15/00	NS	NS	NS	NS
MW-1	12/20/00	NS	NS	NS	NS
MW-1	01/09/01	NS	NS	NS	NS
MW-1	01/15/01	NS	NS	NS	NS
MW-1	01/22/01	NS	NS	NS	NS
MW-1	01/30/01	NS	NS	NS	NS
MW-1	03/12/01	NS	NS	NS	NS
MW-1	06/05/01	NS	NS	NS	NS
MW-1	07/13/01	NS	NS	NS	NS
MW-1	08/02/01	NS	NS	NS	NS
MW-1	08/31/01	NS	NS	NS	NS
MW-1	09/21/01	NS	NS	NS	NS
MW-1	10/02/01	NS	NS	NS	NS
MW-1	01/02/02	NS	NS	NS	NS
MW-1	01/07/02	NS	NS	NS	NS
MW-1	01/23/02	NS	NS	NS	NS
MW-1	01/30/02	NS	NS	NS	NS
MW-1	02/07/02	NS	NS	NS	NS
MW-1	02/14/02	NS	NS	NS	NS
MW-1	02/20/02	NS	NS	NS	NS
MW-1	03/04/02	NS	NS	NS	NS
MW-1	03/11/02	NS	NS	NS	NS
MW-1	03/21/02	NS	NS	NS	NS
MW-1	03/28/02	NS	NS	NS	NS
MW-1	04/03/02	NS	NS	NS	NS
MW-1	04/12/02	NS	NS	NS	NS
MW-1	04/18/02	NS	NS	NS	NS
MW-1	04/25/02	NS	NS	NS	NS
MW-1	05/03/02	NS	NS	NS	NS
MW-1	05/10/02	NS	NS	NS	NS
MW-1	05/17/02	NS	NS	NS	NS
MW-1	05/24/02	NS	NS	NS	NS
MW-1	05/31/02	NS	NS	NS	NS
MW-1	06/07/02	NS	NS	NS	NS

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Gallegos Canyon Unit #124E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	06/12/02	NS	NS	NS	NS
MW-1	06/21/02	NS	NS	NS	NS
MW-1	06/27/02	NS	NS	NS	NS
MW-1	07/02/02	NS	NS	NS	NS
MW-1	07/11/02	NS	NS	NS	NS
MW-1	07/15/02	NS	NS	NS	NS
MW-1	10/16/02	NS	NS	NS	NS
MW-1	01/15/03	NS	NS	NS	NS
MW-1	05/05/03	NS	NS	NS	NS
MW-1	07/18/03	NS	NS	NS	NS
MW-1	01/29/04	NS	NS	NS	NS
MW-1	04/15/04	NS	NS	NS	NS
MW-1	07/26/04	NS	NS	NS	NS
MW-1	10/15/04	NS	NS	NS	NS
MW-1	01/17/05	NS	NS	NS	NS
MW-1	04/19/05	38.8	<1	142	1160
MW-1	07/20/05	125	11.4	371	2640
MW-1	10/20/05	86.8	11.3	125	864
MW-1	01/19/06	77.9	12	101	656
MW-1	04/24/06	45.1	3.5 J	56.1	377
MW-1	07/31/06	60.8	1.5 J	79.3	524
MW-1	10/24/06	21.1	<1	56.6	349
MW-1	01/19/07	22.4	<1	60	367
MW-1	04/24/07	30.3	<1	60.6	407
MW-1	07/31/07	35.3	<2	68.4	416
MW-1	10/25/07	9	<1	33.2	173
MW-1	01/28/08	6	<2	41.6	210
MW-1	04/23/08	14.1	0.59 J	50.1	360
MW-1	07/23/08	72.7	6.7	65.8	210
MW-1	10/08/08	194	<50	43.6 J	328
MW-1	01/07/09	281	6 J	110	653
MW-1	08/25/09	57.9	8.8 J	58.4	298
MW-1	11/03/09	NS	NS	NS	NS
MW-1	02/15/10	98.3	4.1	80.6	385
MW-1	05/24/10	NS	NS	NS	NS
MW-1	09/27/10	159	<2	56.4	348
MW-1	11/01/10	NS	NS	NS	NS
MW-1	02/01/11	109	0.28 J	54.1	436
MW-1	05/02/11	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	09/23/11	288	<1	116	1020
MW-1	02/22/12	255	<5	145	853
MW-1	05/07/12	NS	NS	NS	NS
MW-1	06/04/13	33	<0.60	11	0.86
MW-1	09/11/13	25	<0.30	9.8	8.9
MW-1	12/15/13	87	<0.30	50	100
MW-1	04/05/14	31	6.2	23	15
MW-1	10/25/14	NS	NS	NS	NS
MW-1	05/31/15	NS	NS	NS	NS
MW-1	11/22/15	NS	NS	NS	NS
MW-1	04/18/16	NS	NS	NS	NS
MW-1	10/14/16	NS	NS	NS	NS
MW-1	06/10/17	NS	NS	NS	NS
MW-1	11/11/17	NS	NS	NS	NS
MW-1	05/18/18	NS	NS	NS	NS
MW-1	10/28/18	NS	NS	NS	NS
MW-1	05/23/19	NS	NS	NS	NS
MW-1	11/11/19	NS	NS	NS	NS
MW-1	05/16/20	NS	NS	NS	NS
MW-1	11/11/20	NS	NS	NS	NS
MW-1	03/17/21	NS	NS	NS	NS
MW-1	05/21/21	NS	NS	NS	NS
MW-1	08/23/21	NS	NS	NS	NS
MW-1	11/12/21	NS	NS	NS	NS
MW-2	12/15/13	<0.14	<0.30	<0.20	<0.23
MW-2	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-2	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-2	Well abandoned 1/19/2014				
MW-3	12/15/13	4.1	<0.30	7.4	27
MW-3	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-3	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-3	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/18/16	<1.0	<5.0	<1.0	<5.0
MW-3	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-3	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-3	11/11/17	<1.0	<1.0	<1.0	<10



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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	05/18/18	<1.0	<1.0	<1.0	<10
MW-3	10/28/18	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	10/28/18	<1.0	<1.0	<1.0	<10
MW-3	05/23/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-3)*	05/23/19	<1.0	<1.0	<1.0	<10
MW-3	11/11/19	<1.0	<1.0	<1.0	<10
MW-3	05/16/20	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	05/16/20	<1.0	<1.0	<1.0	<10
MW-3	11/11/20	<1.0	<1.0	<1.0	<10
MW-3	05/21/21	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	05/21/21	<1.0	<1.0	<1.0	<10
MW-3	11/12/21	<1.0	<1.0	<1.0	<10
DUP-01(MW-3)*	11/12/21	<1.0	<1.0	<1.0	<10
MW-4	12/15/13	<0.14	<0.30	0.28 J	1.4 J
MW-4	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-4	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-4	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/18/16	<1.0	<5.0	<1.0	<5.0
MW-4	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-4	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-4	11/11/17	<1.0	<1.0	4	<10
MW-4	05/18/18	<1.0	<1.0	<1.0	<10
MW-4	10/28/18	<1.0	<1.0	<1.0	<10
MW-4	05/23/19	<1.0	<1.0	<1.0	<10
MW-4	11/11/19	<1.0	<1.0	<1.0	<10
MW-4	05/16/20	<1.0	<1.0	<1.0	<10
MW-4	11/11/20	<1.0	<1.0	<1.0	<10
DUP-01(MW-4)*	11/11/20	<1.0	<1.0	<1.0	<10
MW-4	05/21/21	<1.0	<1.0	<1.0	<10
MW-4	11/12/21	<1.0	<1.0	<1.0	<10
MW-5	12/15/13	9.3	<0.30	53	32
MW-5	04/05/14	11	5.8	13	<0.65
MW-5	10/25/14	5.9	<0.70	5.2	<1.6
MW-5	05/31/15	0.65 J	<5.0	<1.0	<5.0
MW-5	11/22/15	1.6	<1.0	2.7	<3.0
MW-5	04/18/16	<1.0	<5.0	<1.0	<5.0

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Gallegos Canyon Unit #124E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	10/14/16	<1.0	<5.0	3.6	<5.0
MW-5	06/10/17	1	<5.0	6.5	<5.0
MW-5	11/11/17	2.1	<1.0	14	<10
MW-5	05/18/18	<1.0	<1.0	4.9	<10
DP-01(MW-5)*	05/18/18	<1.0	<1.0	3.5	<10
MW-5	10/28/18	1.0	<1.0	1.9	<10
MW-5	05/23/19	NS	NS	NS	NS
MW-5	11/11/19	NS	NS	NS	NS
MW-5	05/16/20	NS	NS	NS	NS
MW-5	11/11/20	NS	NS	NS	NS
MW-5	03/17/21	NS	NS	NS	NS
MW-5	05/21/21	<1.0	<1.0	<1.0	<10
MW-5	08/23/21	NS	NS	NS	NS
MW-5	11/12/21	<1.0	<1.0	<1.0	<10
MW-6	12/15/13	<0.14	<0.30	<0.20	2.0 J
MW-6	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-6	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-6	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-6	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-6	04/18/16	<1.0	<5.0	<1.0	<5.0
MW-6	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-6	06/10/17	<1.0	<5.0	<1.0	<5.0
MW-6	11/11/17	<1.0	<1.0	<1.0	<10
MW-6	05/18/18	<1.0	<1.0	<1.0	<10
MW-6	10/28/18	<1.0	<1.0	<1.0	<10
MW-6	05/23/19	<1.0	<1.0	<1.0	<10
MW-6	11/11/19	<1.0	<1.0	<1.0	<10
MW-6	05/16/20	<1.0	<1.0	<1.0	<10
MW-6	11/11/20	<1.0	<1.0	<1.0	<10
MW-6	05/21/21	<1.0	<1.0	<1.0	<10
MW-6	11/12/21	<1.0	<1.0	<1.0	<10
MW-7	12/15/13	<0.14	<0.30	<0.20	<0.23
MW-7	04/05/14	<0.20	<0.38	<0.20	<0.65
MW-7	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-7	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-7	11/22/15	<1.0	<1.0	<1.0	<3.0
MW-7	04/18/16	NS	NS	NS	NS

**TABLE 2 - GROUNDWATER ANALYTICAL RESULTS**

<b>Gallegos Canyon Unit #124E</b>					
<b>Location</b>	<b>Date</b>	<b>Benzene (µg/L)</b>	<b>Toluene (µg/L)</b>	<b>Ethylbenzene (µg/L)</b>	<b>Total Xylenes (µg/L)</b>
NMWQCC Standards:		10	750	750	620
MW-7	10/14/16	NS	NS	NS	NS
MW-7	06/10/17	NS	NS	NS	NS
MW-7	11/11/17	<1.0	<1.0	<1.0	<10
MW-7	05/18/18	NS	NS	NS	NS
MW-7	10/28/18	NS	NS	NS	NS
MW-7	05/23/19	NS	NS	NS	NS
MW-7	11/11/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-7)*	11/11/19	<1.0	<1.0	<1.0	<10
MW-7	05/16/20	NS	NS	NS	NS
MW-7	11/11/20	<1.0	<1.0	<1.0	<10
MW-7	05/21/21	NS	NS	NS	NS
MW-7	11/12/21	NS	NS	NS	NS

**Notes:**

The groundwater monitoring dates for each monitoring well where no groundwater samples were collected and analyzed have been omitted.

µg/L = micrograms per liter

Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.

"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.

"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).

\*Field Duplicate results presented immediately below primary sample result

**TABLE 3 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #124E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-1	06/25/98	5949.45	NR	27.21		5922.24
MW-1	09/14/98	5949.45	NR	27.50		5921.95
MW-1	12/15/98	5949.45	27.61	28.16	0.55	5921.70
MW-1	03/16/99	5949.45	27.60	29.02	1.42	5921.50
MW-1	10/05/00	5949.45	29.04	29.46	0.42	5920.31
MW-1	11/15/00	5949.45	28.93	28.93		5920.52
MW-1	12/20/00	5949.45	NR	28.98		5920.47
MW-1	01/09/01	5949.45	29.18	29.21	0.03	5920.26
MW-1	01/15/01	5949.45	29.04	29.07	0.03	5920.40
MW-1	01/22/01	5949.45	NR	28.99		5920.46
MW-1	01/30/01	5949.45	NR	29.09		5920.36
MW-1	03/12/01	5949.45	NR	29.26		5920.19
MW-1	06/05/01	5949.45	29.28	29.32	0.04	5920.16
MW-1	07/13/01	5949.45	NR	29.65		5919.80
MW-1	08/02/01	5949.45	NR	29.53		5919.92
MW-1	08/31/01	5949.45	NR	29.27		5920.18
MW-1	09/21/01	5949.45	NR	29.33		5920.12
MW-1	10/02/01	5949.45	NR	28.98		5920.47
MW-1	01/02/02	5949.45	28.85	28.96	0.11	5920.57
MW-1	01/07/02	5949.45	28.94	28.99	0.05	5920.50
MW-1	01/23/02	5949.45	26.35	29.35	3.00	5922.35
MW-1	01/30/02	5949.45	29.22	29.24	0.02	5920.23
MW-1	02/07/02	5949.45	29.66	29.70	0.04	5919.78
MW-1	02/14/02	5949.45	29.28	29.29	0.01	5920.17
MW-1	02/20/02	5949.45	29.75	29.76	0.01	5919.70
MW-1	03/04/02	5949.45	NR	29.30		5920.15
MW-1	03/11/02	5949.45	NR	29.17		5920.28
MW-1	03/21/02	5949.45	NR	29.47		5919.98
MW-1	03/28/02	5949.45	NR	29.33		5920.12
MW-1	04/03/02	5949.45	NR	29.33		5920.12
MW-1	04/12/02	5949.45	NR	29.70		5919.75
MW-1	04/18/02	5949.45	NR	29.31		5920.14
MW-1	04/25/02	5949.45	NR	30.11		5919.34
MW-1	05/03/02	5949.45	NR	30.18		5919.27
MW-1	05/10/02	5949.45	NR	30.25		5919.20
MW-1	05/17/02	5949.45	NR	29.57		5919.88
MW-1	05/24/02	5949.45	NR	29.70		5919.75
MW-1	05/31/02	5949.45	NR	29.54		5919.91
MW-1	06/07/02	5949.45	NR	29.42		5920.03

**TABLE 3 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #124E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-1	06/12/02	5949.45	NR	29.21		5920.24
MW-1	06/21/02	5949.45	NR	30.12		5919.33
MW-1	06/27/02	5949.45	NR	30.18		5919.27
MW-1	07/02/02	5949.45	29.98	29.99	0.01	5919.47
MW-1	07/11/02	5949.45	NR	30.06		5919.39
MW-1	07/15/02	5949.45	NR	29.63		5919.82
MW-1	10/16/02	5949.45	29.24	29.65	0.41	5920.11
MW-1	01/15/03	5949.45	ND	28.63		5920.82
MW-1	05/05/03	5949.45	27.69	27.72	0.03	5921.75
MW-1	07/18/03	5949.45	27.06	27.08	0.02	5922.39
MW-1	01/29/04	5949.45	ND	25.40		5924.05
MW-1	04/15/04	5949.45	ND	24.98		5924.47
MW-1	07/26/04	5949.45	ND	24.50		5924.95
MW-1	10/15/04	5949.45	ND	24.98		5924.47
MW-1	01/17/05	5949.45	ND	25.49		5923.96
MW-1	04/19/05	5949.45	ND	25.45		5924.00
MW-1	07/20/05	5949.45	ND	24.73		5924.72
MW-1	10/20/05	5949.45	ND	24.85		5924.60
MW-1	01/19/06	5949.45	ND	24.53		5924.92
MW-1	04/24/06	5949.45	ND	24.25		5925.20
MW-1	07/31/06	5949.45	ND	25.68		5923.77
MW-1	10/24/06	5949.45	ND	24.94		5924.51
MW-1	01/19/07	5949.45	ND	26.33		5923.12
MW-1	04/24/07	5949.45	ND	25.97		5923.48
MW-1	07/31/07	5949.45	ND	26.26		5923.19
MW-1	10/25/07	5949.45	ND	26.44		5923.01
MW-1	01/28/08	5949.45	ND	26.67		5922.78
MW-1	04/23/08	5949.45	ND	26.67		5922.78
MW-1	07/23/08	5949.45	ND	23.49		5925.96
MW-1	10/08/08	5949.45	ND	22.30		5927.15
MW-1	01/07/09	5949.45	ND	23.74		5925.71
MW-1	08/25/09	5949.45	ND	26.65		5922.80
MW-1	11/03/09	5949.45	ND	25.62		5923.83
MW-1	02/15/10	5949.45	ND	25.93		5923.52
MW-1	05/24/10	5949.45	ND	19.47		5929.98
MW-1	09/27/10	5949.45	ND	19.78		5929.67
MW-1	11/01/10	5949.45	ND	19.82		5929.63
MW-1	02/01/11	5949.45	ND	21.70		5927.75
MW-1	05/02/11	5949.45	ND	23.32		5926.13

**TABLE 3 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #124E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-1	09/23/11	5949.45	ND	24.71		5924.74
MW-1	02/22/12	5949.45	ND	23.51		5925.94
MW-1	05/07/12	5949.45	ND	24.20		5925.25
MW-1	06/04/13	5949.45	ND	25.87		5923.58
MW-1	09/11/13	5949.45	ND	25.74		5923.71
MW-1	12/15/13	5949.45	ND	25.67		5923.78
MW-1	04/05/14	5949.45	ND	26.27		5923.18
MW-1	10/25/14	5949.45	27.06	27.07	0.01	5922.39
MW-1	05/31/15	5946.64	24.70	24.70	<0.01	5921.94
MW-1	11/22/15	5946.64	24.33	24.33	<0.01	5922.31
MW-1	04/18/16	5946.64	24.92	24.99	0.07	5921.70
MW-1	10/14/16	5946.64	25.06	25.21	0.15	5921.54
MW-1	06/10/17	5946.64	25.40	25.50	0.10	5921.22
MW-1	07/20/17	5946.64	25.52	25.59	0.07	5921.10
MW-1	09/21/17	5946.64	25.38	25.42	0.04	5921.25
MW-1	11/11/17	5946.64	25.56	25.57	0.01	5921.08
MW-1	05/18/18	5946.64	25.85	25.97	0.12	5920.76
MW-1	10/28/18	5946.64	26.15	26.41	0.26	5920.43
MW-1	05/23/19	5946.64	26.51	27.02	0.51	5920.00
MW-1	11/11/19	5946.64	26.65	26.85	0.20	5919.94
MW-1	05/16/20	5946.64	26.96	27.20	0.24	5919.62
MW-1	08/18/20	5946.64	27.02	27.13	0.11	5919.59
MW-1	11/11/20	5946.64	27.06	27.08	0.02	5919.58
MW-1	03/17/21	5946.64	27.34	27.36	0.02	5919.30
MW-1	05/21/21	5946.64	27.35	27.38	0.03	5919.28
MW-1	08/23/21	5946.64	27.44	27.50	0.06	5919.19
MW-1	11/12/21	5946.64	27.45	27.47	0.02	5919.19
MW-2	12/15/13	5950.12	ND	26.46		5923.66
MW-2	04/05/14	5950.12	ND	27.05		5923.07
MW-2	10/25/14	5950.12	ND	27.84		5922.28
MW-2	Well abandoned 1/19/2014					
MW-3	12/15/13	5949.84	ND	26.02		5923.82
MW-3	04/05/14	5949.84	ND	26.59		5923.25
MW-3	10/25/14	5949.84	ND	27.37		5922.47
MW-3	05/31/15	5946.83	ND	24.82		5922.01
MW-3	11/22/15	5946.83	ND	24.50		5922.33
MW-3	04/18/16	5946.83	ND	25.12		5921.71
MW-3	10/14/16	5946.83	ND	25.36		5921.47

**TABLE 3 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #124E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-3	06/10/17	5946.83	ND	25.61		5921.22
MW-3	11/11/17	5946.83	ND	25.72		5921.11
MW-3	05/18/18	5946.83	ND	26.07		5920.76
MW-3	10/28/18	5946.83	ND	26.37		5920.46
MW-3	05/23/19	5946.83	ND	26.83		5920.00
MW-3	11/11/19	5946.83	ND	26.86		5919.97
MW-3	05/16/20	5946.83	ND	27.18		5919.65
MW-3	11/11/20	5946.83	ND	27.24		5919.59
MW-3	05/21/21	5946.83	ND	27.56		5919.27
MW-3	11/12/21	5946.83	ND	27.63		5919.20
MW-4	12/15/13	5949.57	ND	25.62		5923.95
MW-4	04/05/14	5949.57	ND	26.22		5923.35
MW-4	10/25/14	5949.57	ND	26.98		5922.59
MW-4	05/31/15	5946.52	ND	24.52		5922.00
MW-4	11/22/15	5946.52	ND	24.16		5922.36
MW-4	04/18/16	5946.52	ND	24.80		5921.72
MW-4	10/14/16	5946.52	ND	24.99		5921.53
MW-4	06/10/17	5946.52	ND	25.28		5921.24
MW-4	11/11/17	5946.52	ND	25.37		5921.15
MW-4	05/18/18	5946.52	ND	25.69		5920.83
MW-4	10/28/18	5946.52	ND	25.98		5920.54
MW-4	05/23/19	5946.52	ND	26.83		5919.69
MW-4	11/11/19	5946.52	ND	26.49		5920.03
MW-4	05/16/20	5946.52	ND	26.82		5919.70
MW-4	11/11/20	5946.52	ND	26.86		5919.66
MW-4	05/21/21	5946.52	ND	27.20		5919.32
MW-4	11/12/21	5946.52	ND	27.24		5919.28
MW-5	12/15/13	5948.92	ND	25.17		5923.75
MW-5	04/05/14	5948.92	ND	25.85		5923.07
MW-5	10/25/14	5948.92	ND	26.60		5922.32
MW-5	05/31/15	5946.03	ND	24.17		5921.86
MW-5	11/22/15	5946.03	ND	23.83		5922.20
MW-5	04/18/16	5946.03	ND	24.42		5921.61
MW-5	10/14/16	5946.03	ND	24.64		5921.39
MW-5	06/10/17	5946.03	ND	24.93		5921.10
MW-5	11/11/17	5946.03	ND	24.98		5921.05
MW-5	05/18/18	5946.03	ND	25.36		5920.67
MW-5	10/28/18	5946.03	ND	25.65		5920.38



**TABLE 3 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #124E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-5	05/23/19	5946.03	26.12	26.31	0.19	5919.86
MW-5	11/11/19	5946.03	26.52	26.63	0.11	5919.48
MW-5	05/16/20	5946.03	26.95	27.11	0.16	5919.04
MW-5	08/18/20	5946.03	27.19	27.22	0.03	5918.83
MW-5	11/11/20	5946.03	27.14	27.15	0.01	5918.89
MW-5	03/17/21	5946.03	ND	27.30		5918.73
MW-5	05/21/21	5946.03	ND	27.45		5918.58
MW-5	08/23/21	5946.03	ND	27.55		5918.48
MW-5	11/12/21	5946.03	ND	27.50		5918.53
MW-6	12/15/13	5949.34	ND	25.48		5923.86
MW-6	04/05/14	5949.34	ND	26.16		5923.18
MW-6	10/25/14	5949.34	ND	26.90		5922.44
MW-6	05/31/15	5946.31	ND	24.44		5921.87
MW-6	11/22/15	5946.31	ND	24.13		5922.18
MW-6	04/18/16	5946.31	ND	24.66		5921.65
MW-6	10/14/16	5946.31	ND	24.89		5921.42
MW-6	06/10/17	5946.31	ND	24.19		5922.12
MW-6	11/11/17	5946.31	ND	25.29		5921.02
MW-6	05/18/18	5946.31	ND	25.62		5920.69
MW-6	10/28/18	5946.31	ND	25.91		5920.40
MW-6	05/23/19	5946.31	ND	26.31		5920.00
MW-6	11/11/19	5946.31	ND	26.55		5919.76
MW-6	05/16/20	5946.31	ND	26.72		5919.59
MW-6	11/11/20	5946.31	ND	26.83		5919.48
MW-6	05/21/21	5946.31	ND	27.11		5919.20
MW-6	11/12/21	5946.31	ND	27.22		5919.09
MW-7	12/15/13	5948.68	ND	25.34		5923.34
MW-7	04/05/14	5948.68	ND	26.13		5922.55
MW-7	10/25/14	5948.68	ND	26.89		5921.79
MW-7	05/31/15	5945.78	ND	24.41		5921.37
MW-7	11/22/15	5945.78	ND	23.97		5921.81
MW-7	04/18/16	5945.78	ND	24.52		5921.26
MW-7	10/14/16	5945.78	ND	25.29		5920.49
MW-7	06/10/17	5945.78	ND	24.04		5921.74
MW-7	11/11/17	5945.78	ND	25.13		5920.65
MW-7	05/18/18	5945.78	ND	30.40		5915.38
MW-7	10/28/18	5945.78	ND	31.58		5914.20
MW-7	05/23/19	5945.78	ND	32.53		5913.25



**TABLE 3 - GROUNDWATER ELEVATION RESULTS**

<b>Gallegos Canyon Unit #124E</b>						
<b>Location</b>	<b>Date</b>	<b>TOC</b>	<b>Depth to LNAPL (ft.)</b>	<b>Depth to Water (ft.)</b>	<b>LNAPL Thickness (ft.)</b>	<b>GW Elevation (ft.)</b>
MW-7	11/11/19	5945.78	ND	32.76		5913.02
MW-7	05/16/20	5945.78	ND	33.16		5912.62
MW-7	11/11/20	5945.78	ND	33.11		5912.67
MW-7	05/21/21	5945.78	ND	33.33		5912.45
MW-7	11/12/21	5945.78	ND	33.37		5912.41

**Notes:**

"ft" = feet

"TOC" = Top of casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

Groundwater elevation = Top of Casing elevation (TOC, ft) - Depth to Water [ft] + (LPH thickness [ft] x 0.75). A specific gravity of 0.75 is within the range of gas condensate (<https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate>)

## FIGURES

FIGURE 1: SITE LOCATION MAP

FIGURE 2: SITE PLAN

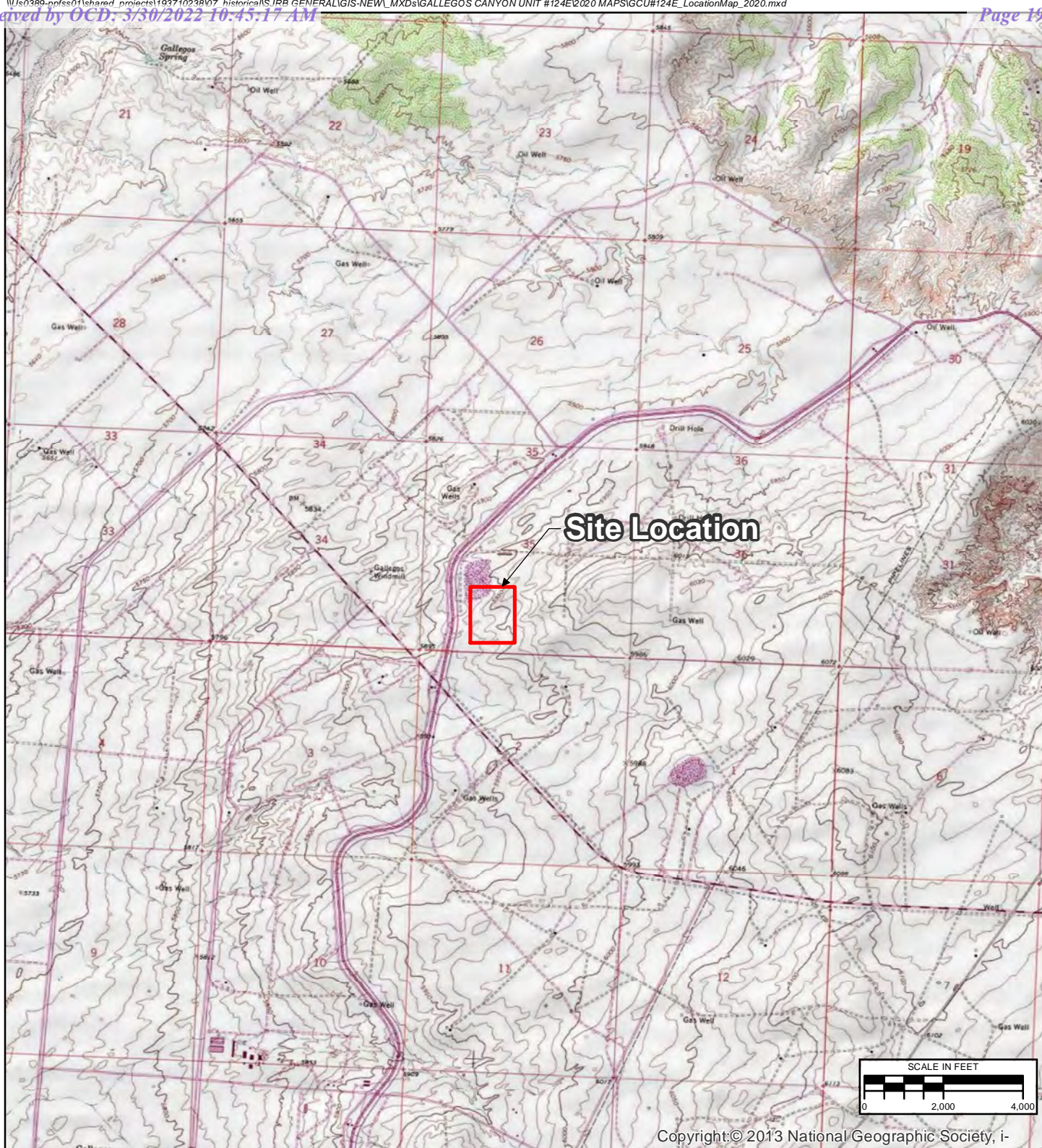
FIGURE 3: GROUNDWATER ANALYTICAL RESULTS – MAY 21, 2021

FIGURE 4: GROUNDWATER ELEVATION – MAY 21, 2021


FIGURE 5: GROUNDWATER ANALYTICAL RESULTS – NOVEMBER 12, 2021

FIGURE 6: GROUNDWATER ELEVATION – NOVEMBER 12, 2021





REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/22/2021	SAH	SAH	SAH

TITLE <b>SITE LOCATION</b>		
PROJECT <b>GALLEGOS CANYON UNIT #124E SAN JUAN RIVER BASIN SAN JUAN COUNTY, NEW MEXICO</b>	FIGURE <b>1</b>	

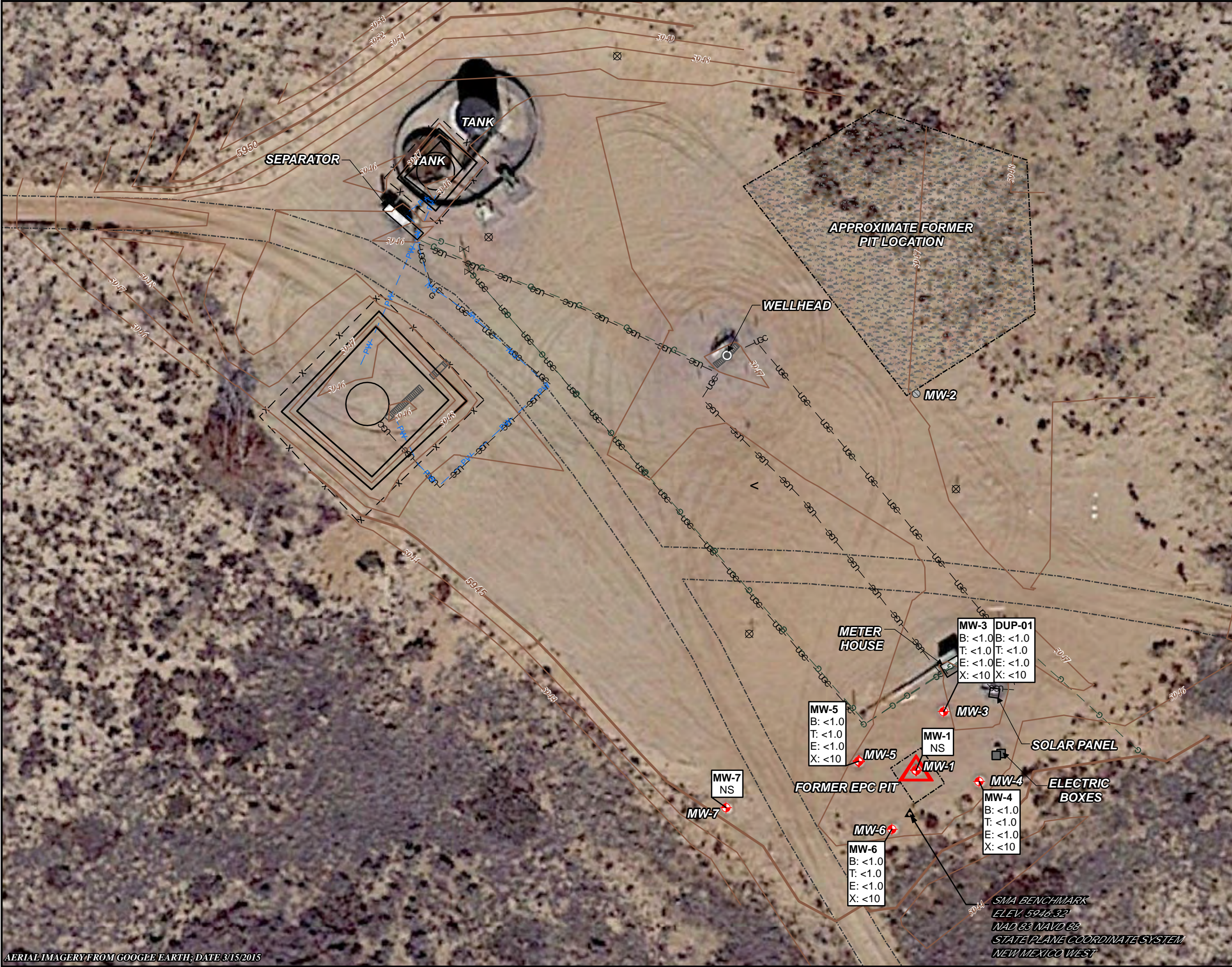


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\\Us0389-pplss01\shared\_projects\193710238\07\_historical\SJRB GENERAL\GIS-NEW\_MXD\GALLEGOS CANYON UNIT #124E\2021 MAPS\GCU#124E\_GARM\_1SA\_2021.mxd



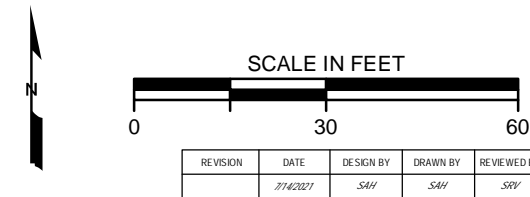
**LEGEND:**

- 5795** — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- — — — — ACCESS ROAD
- x— — FENCE
- FORMER PIT
- PW— — PRODUCED WATER LINE
- UG— — UNDERGROUND CABLE
- G— — UNDERGROUND GAS LINE
- ABANDONED MONITORING WELL
- ▲ SMA BENCHMARK
- ⊠ GAS VALVE
- ⊕ MONITORING WELL
- ▲ MONITORING WELL WITH MEASURABLE FREE PRODUCT
- ⊗ RIG ANCHOR
- ⊙ WELLHEAD

**NOTES:**  
 DUP = FIELD DUPLICATE SAMPLE

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**  
 RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.  
 µg/L = MICROGRAMS PER LITER  
 <10 = BELOW METHOD REPORTING LIMIT

ANALYTE	NMWQCC STANDARDS
B = Benzene	10 µg/L
T = Toluene	750 µg/L
E = Ethylbenzene	750 µg/L
X = Total Xylenes	620 µg/L



TITLE:  
 GROUNDWATER ANALYTICAL RESULTS  
 MAY 21, 2021

PROJECT: GALLEGOS CANYON UNIT #124E  
 SAN JUAN RIVER BASIN  
 SAN JUAN COUNTY, NEW MEXICO

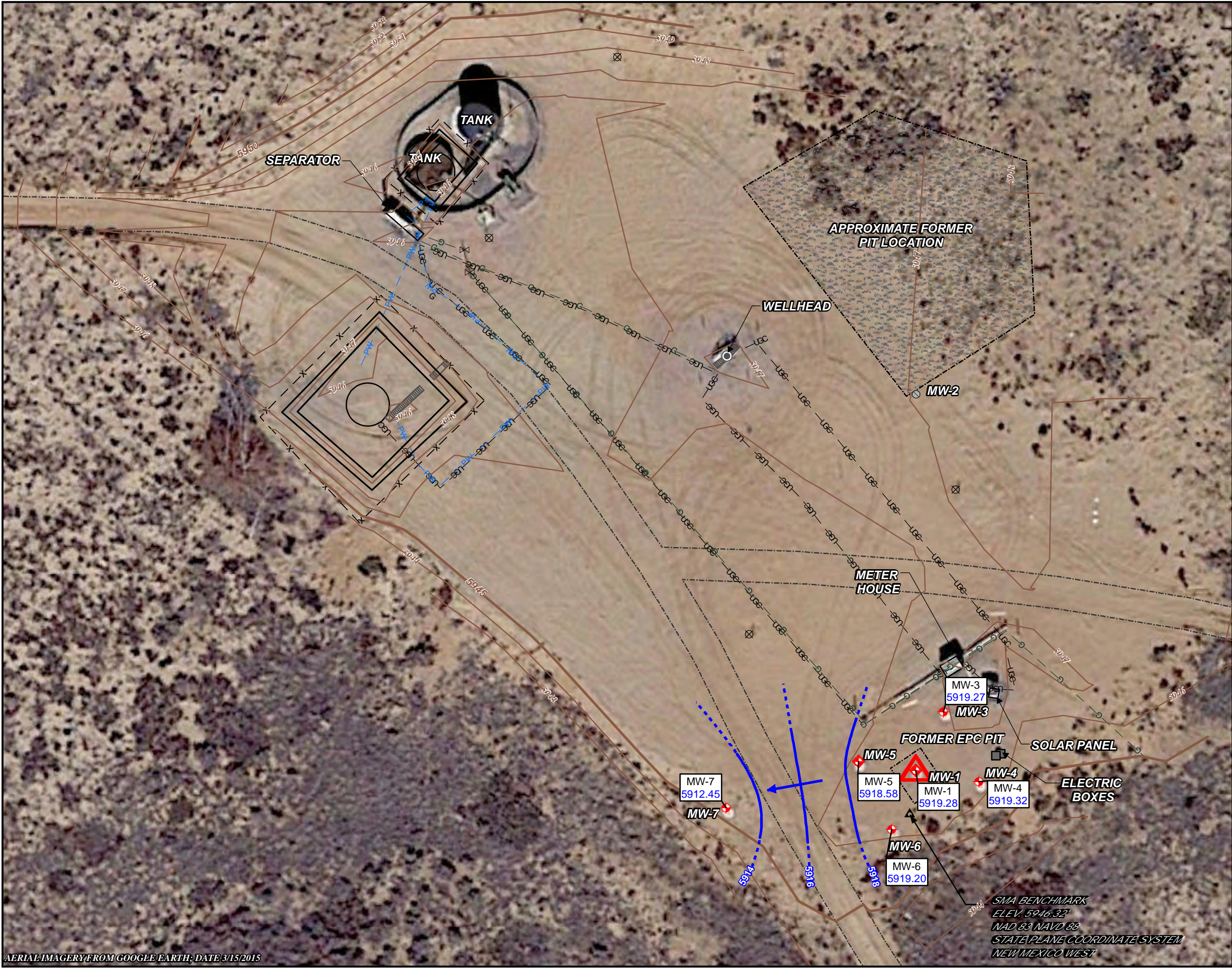


Figure No.:  
**3**

AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/15/2015



\\Us0389-ppfss01\shared\_projects\193710238\07\_historical\SJRB GENERAL\GIS-NEW\_MXD\GALLEGOS CANYON UNIT #124E\2021 MAPS\GCU#124E\_GECM\_1SA\_2021.mxd



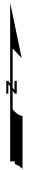
AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/15/2015

**LEGEND:**

- 5795 APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- X FENCE
- FORMER PIT
- PW PRODUCED WATER LINE
- UG UNDERGROUND CABLE
- G UNDERGROUND GAS LINE
- ABANDONED MONITORING WELL
- ▲ SMA BENCHMARK
- ⊗ GAS VALVE
- ♦ MONITORING WELL
- ▲ MONITORING WELL WITH MEASURABLE FREE PRODUCT
- ⊗ RIG ANCHOR
- WELLHEAD

**NOTES:**

- 5919.04 GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS. FEET ABOVE MEAN SEA LEVEL
- 5916 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF GROUNDWATER FLOW



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/16/2021	SAH	SAH	SRV

TITLE: *GROUNDWATER ELEVATION MAP  
MAY 21, 2021*

PROJECT: *GALLEGOS CANYON UNIT #124E  
SAN JUAN RIVER BASIN  
SAN JUAN COUNTY, NEW MEXICO*

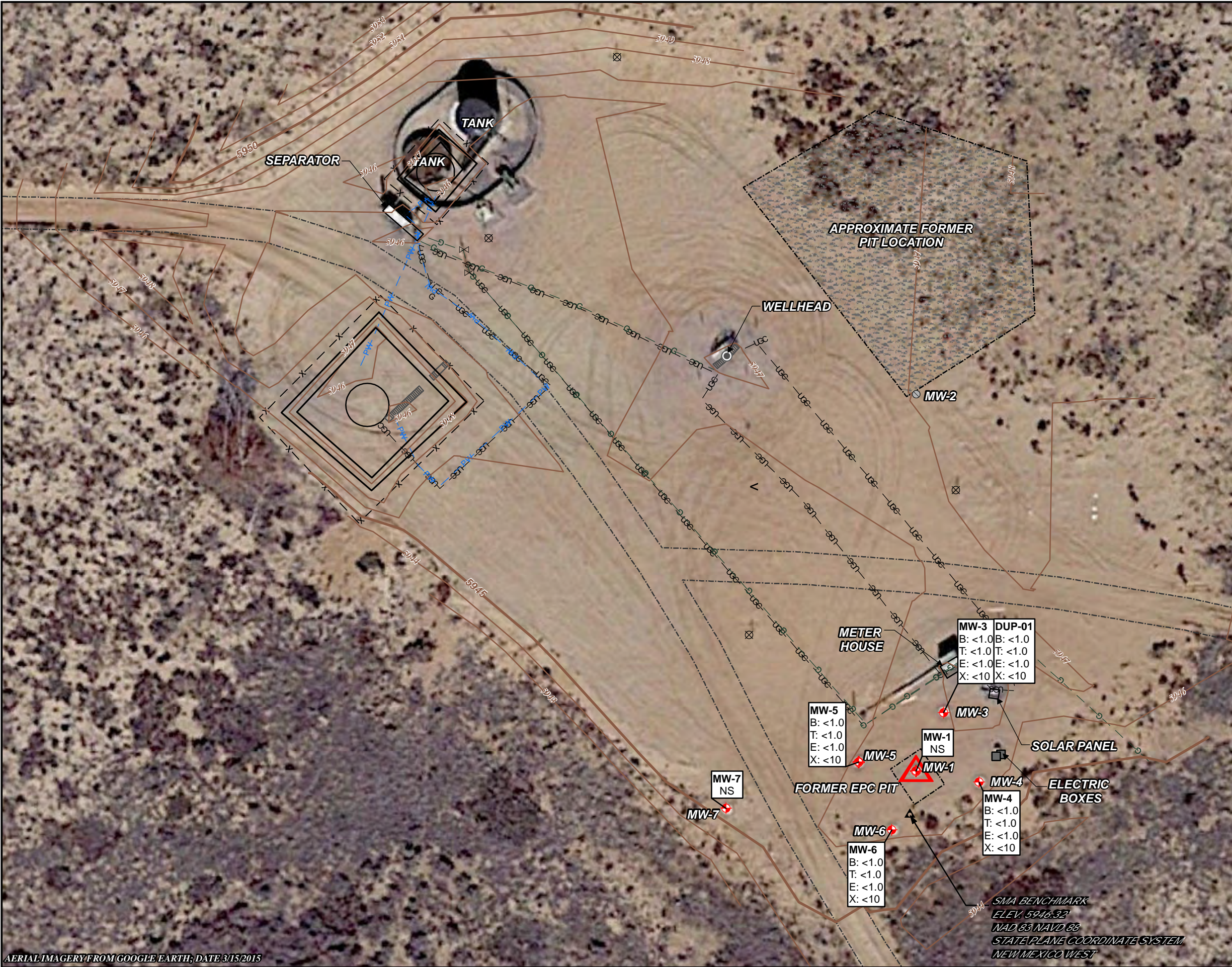


Figure No.:

4



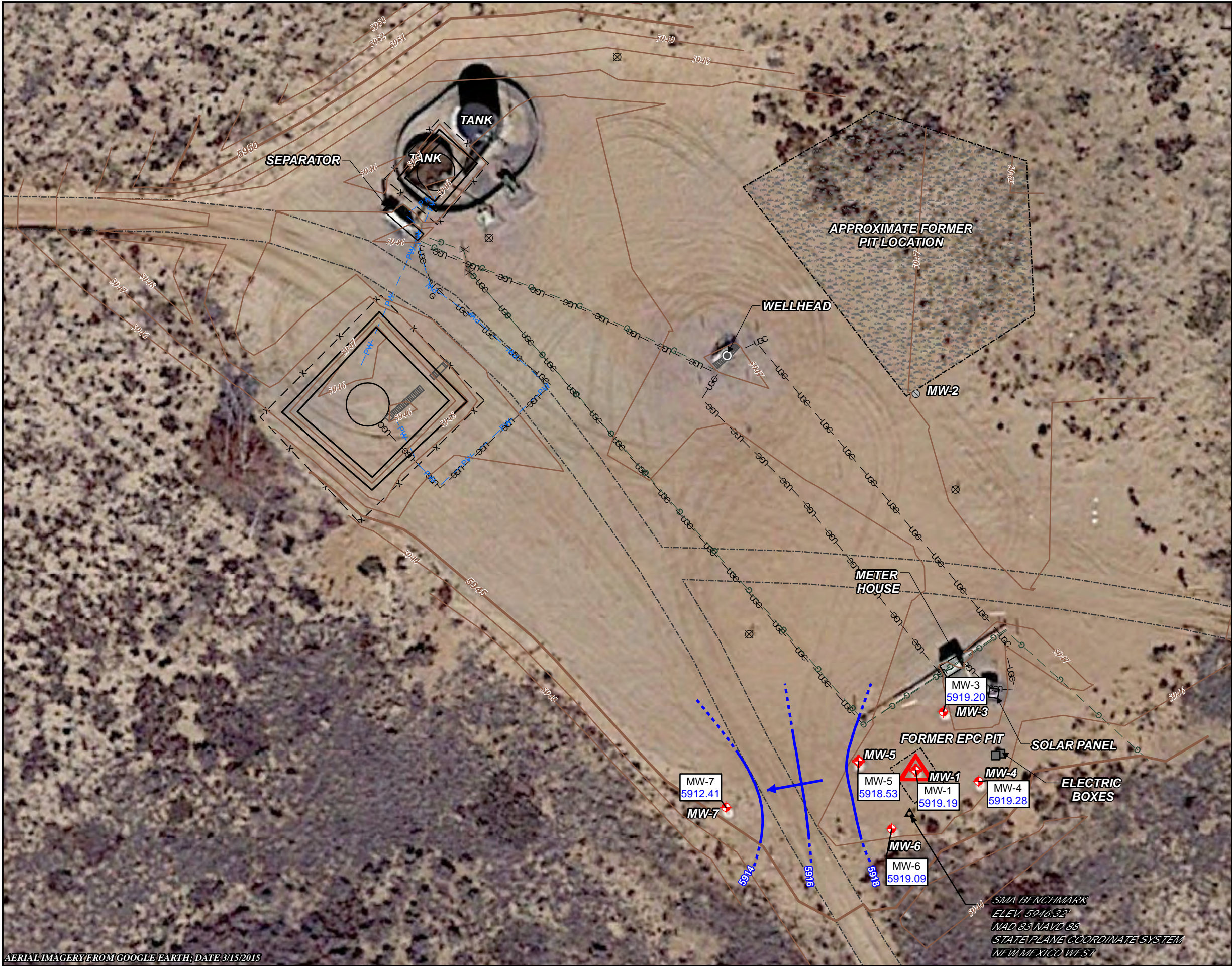
\\Corp.ads\data\Virtual\_Workspace\workgroup\1937\Active\193700102\03\_data\gis\_cad\gis\GIS-NEW\MXDs\GALLEGOS CANYON UNIT #124E\2021 MAPS\GCU#124E\_GARM\_2SA\_2021.mxd



AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/15/2015



\\Corp.ads\data\Virtual\_Workspace\workgroup\1937\Active\193700102\03\_data\gis\_cad\gis\GIS-NEW\_MXD\GALLEGOS CANYON UNIT #124E\2021 MAPS\GCU#124E\_GECM\_2SA\_2021.mxd



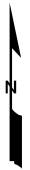
AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/15/2015

**LEGEND:**

- 5795** — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- x- FENCE
- FORMER PIT
- PW— PRODUCED WATER LINE
- UG— UNDERGROUND CABLE
- G— UNDERGROUND GAS LINE
- ABANDONED MONITORING WELL
- ▲ SMA BENCHMARK
- ⊗ GAS VALVE
- ⬮ MONITORING WELL
- ⬮ MONITORING WELL WITH MEASURABLE FREE PRODUCT
- ⊗ RIG ANCHOR
- WELLHEAD

**NOTES:**

- 5919.04** GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS. FEET ABOVE MEAN SEA LEVEL
- 5918** CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- ➡ DIRECTION OF GROUNDWATER FLOW



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-01-24	SAH	SAH	SRV

TITLE: *GROUNDWATER ELEVATION MAP  
NOVEMBER 12, 2021*

PROJECT: *GALLEGOS CANYON UNIT #124E  
SAN JUAN RIVER BASIN  
SAN JUAN COUNTY, NEW MEXICO*



Figure No.:

**6**



## **APPENDICES**

APPENDIX A – NOTIFICATIONS OF SAMPLING ACTIVITIES

APPENDIX B – WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX C – GROUNDWATER SAMPLING ANALYTICAL REPORTS

# APPENDIX A

**From:** [Varsa, Steve](#)  
**To:** [Smith, Cory, EMNRD](#)  
**Cc:** [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)  
**Subject:** El Paso CGP Company - Notice of upcoming product recovery activities  
**Date:** Thursday, March 11, 2021 10:49:41 AM

---

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming product recovery activities at the following El Paso CGP Company (EPCGP) project sites:

Site Name	Incident Number	Case Number	Date
Canada Mesa #2	Unknown	3RP-155-0	03/18/2021
Fields A#7A	Unknown	3RP-170-0	03/17/2021
Fogelson 4-1	Unknown	3RP-068-0	03/17/2021
Gallegos Canyon Unit #124E	NAUTOFAB000205	3RP-407-0	03/17/2021
James F. Bell #1E	Unknown	3RP-196-0	03/17/2021
Johnston Fed #4	Unknown	3RP-201-0	03/18/2021
Johnston Fed #6A	Unknown	3RP-202-0	03/18/2021
K27 LDO72	Unknown	3RP-204-0	03/18/2021
Knight #1	Unknown	3RP-207-0	03/17/2021
Lateral L 40 Line Drip	Unknown	3RP-212-0	03/18/2021
State Gas Com N #1	Unknown	3RP-239-0	03/17/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,  
Steve

**Stephen Varsa, P.G.**  
Senior Hydrogeologist  
Stantec Environmental Services  
11153 Aurora Avenue  
Des Moines, Iowa 50322  
Direct: (515) 251-1020  
Cell: (515) 710-7523  
Office: (515) 253-0830  
[steve.varsa@stantec.com](mailto:steve.varsa@stantec.com)

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**From:** [Varsa, Steve](#)  
**To:** [Smith, Cory, EMNRD](#)  
**Cc:** [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)  
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities  
**Date:** Wednesday, May 12, 2021 2:45:52 PM

---

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming semi-annual groundwater sampling and monitoring activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	05/19/2021
Fields A#7A	nAUTOfAB000176	05/22/2021
Fogelson 4-1	nAUTOfAB000192	05/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	05/21/2021
GCU Com A #142E	nAUTOfAB000219	05/21/2021
James F. Bell #1E	nAUTOfAB000291	05/23/2021
Johnston Fed #4	nAUTOfAB000305	05/18/2021
Johnston Fed #6A	nAUTOfAB000309	05/18/2021
K27 LDO72	nAUTOfAB000316	05/19/2021
Knight #1	nAUTOfAB000324	05/21/2021
Lateral L 40 Line Drip	nAUTOfAB000335	05/23/2021
Miles Fed #1A	nAUTOfAB000391	05/19/2021
Sandoval GC A #1A	nAUTOfAB000635	05/18/2021
Standard Oil Com #1	nAUTOfAB000666	05/19/2021
State Gas Com N #1	nAUTOfAB000668	05/22/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,  
Steve

**Stephen Varsa, P.G.**  
Senior Hydrogeologist  
Stantec Environmental Services  
11153 Aurora Avenue  
Des Moines, Iowa 50322  
Direct: (515) 251-1020  
Cell: (515) 710-7523  
Office: (515) 253-0830  
[steve.varsa@stantec.com](mailto:steve.varsa@stantec.com)

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**From:** [Varsa, Steve](#)  
**To:** [Smith, Cory, EMNRD](#)  
**Cc:** [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)  
**Bcc:** [Varsa, Steve](#)  
**Subject:** El Paso CGP Company - Notice of upcoming free product recovery activities  
**Date:** Thursday, August 19, 2021 8:01:00 AM

---

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming quarterly product recovery activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Fields A#7A	nAUTOfAB000176	08/22/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	08/23/2021
Johnston Fed #4	nAUTOfAB000305	08/22/2021
K27 LDO72	nAUTOfAB000316	08/23/2021
Knight #1	nAUTOfAB000324	08/23/2021
Lateral L 40 Line Drip	nAUTOfAB000335	08/22/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,  
Steve

**Stephen Varsa, P.G.**  
Senior Hydrogeologist  
Stantec Environmental Services  
**Note – we have moved!**  
11311 Aurora Avenue  
Des Moines, Iowa 50322  
Direct: (515) 251-1020  
Cell: (515) 710-7523  
Office: (515) 253-0830  
[steve.varsa@stantec.com](mailto:steve.varsa@stantec.com)

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**From:** [Varsa, Steve](#)  
**To:** [Smith, Cory, EMNRD](#)  
**Cc:** [Griswold, Jim, EMNRD](#); [Wiley, Joe](#)  
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities  
**Date:** Wednesday, November 03, 2021 10:14:55 AM

---

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming semi-annual groundwater sampling and monitoring activities at the following EPCGP project sites:

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	11/11/2021
Fields A#7A	nAUTOfAB000176	11/14/2021
Fogelson 4-1	nAUTOfAB000192	11/14/2021
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/12/2021
GCU Com A #142E	nAUTOfAB000219	11/12/2021
James F. Bell #1E	nAUTOfAB000291	11/13/2021
Johnston Fed #4	nAUTOfAB000305	11/15/2021
Johnston Fed #6A	nAUTOfAB000309	11/15/2021
K27 LDO72	nAUTOfAB000316	11/11/2021
Knight #1	nAUTOfAB000324	11/12/2021
Lateral L 40 Line Drip	nAUTOfAB000335	11/13/2021
Miles Fed #1A	nAUTOfAB000391	11/11/2021
Sandoval GC A #1A	nAUTOfAB000635	11/15/2021
Standard Oil Com #1	nAUTOfAB000666	11/11/2021
State Gas Com N #1	nAUTOfAB000668	11/14/2021

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,  
Steve

**Stephen Varsa, P.G.**  
Senior Hydrogeologist  
Stantec Environmental Services  
11153 Aurora Avenue  
Des Moines, Iowa 50322  
Direct: (515) 251-1020  
Cell: (515) 710-7523  
Office: (515) 253-0830  
[steve.varsa@stantec.com](mailto:steve.varsa@stantec.com)

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# APPENDIX B

# BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413

505-632-8936 or 505-334-3013

OPEN 24 Hours per Day

NO. **806693**

NMOCD PERMIT: NM -001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE

03-17-21

GENERATOR:

Santelec

HAULING CO.

Energy Minerals and Natural Gas

ORDERED BY:

Steven Benson

DEL. TKT#.

BILL TO:

Santelec

DRIVER:

Lynne

(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste☐ Produced Water☐ Drilling/Completion Fluids

STATE:

☒ NM☐ CO☐ AZ☐ UTTREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Bleeker Gas Plant	/	.70			.70	
2		San Juan River Gas Plant	/					
3		7 locations, GCU-MINE	/					
4		Jones F. Bell, Knight #1, Seale Gas Com Unit Fields A#7A, Ryelson #4-1	/					
5			/					

I.

representative or authorized agent for

do hereby



DATE: 05-11-21  
 GENERATOR: EL PASO  
 HAULING CO.: Stam Lac  
 ORDERED BY: Joe Willey

DEL. TKT#: \_\_\_\_\_  
 BILL TO: EL PASO  
 DRIVER: Seam Clary  
(Print Full Name)  
 CODES: \_\_\_\_\_

WASTE DESCRIPTION: ☒ **Exempt Oilfield Waste** ☒ Produced Water ☐ Drilling/Completion Fluids  
 STATE: ☒ NM ☐ CO ☐ AZ ☐ UT TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Standard oil com #1 Knight #1 / GCM #1248	/	120				
2		GCM com A #1426	/				21 MAY 21 3:21 PM	
3		Tobacco Fed #4 / #6A	/					
4		Sundown GC A #1A/	/					
5		CANADA MUD #2 K-22 & 012, Miles fed #1A	/					

I, Joe Willey, representative or authorized agent for \_\_\_\_\_ do hereby  
 certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the  
 above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non -exempt waste.

☐ Approved ☐ Denied ATTENDANT SIGNATURE \_\_\_\_\_

# BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413

505-632-8936 or 505-334-3013

OPEN 24 Hours per Day

DATE

GENERATOR:

HAULING CO.

ORDERED BY:

WASTE DESCRIPTION: ☒ Exempt Oilfield WasteSTATE: ☒ NM ☐ CO ☐ AZ ☐ UTTREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO. 813738

NMOCD PERMIT: NM-001-0005

Oil Field Waste Document, Form C138

INVOICE:

DEL. TKT#.

BILL TO:

DRIVER:

(Print Full Name)

CODES:

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		1L-27 LD072	1	.70				
2		1L night #1	1					
3		GCU 124 E	1				2.10	
4								
5								

# BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413

505-632-8936 or 505-334-3013

OPEN 24 Hours per Day

NO. 817538

NMOC D PERMIT: NM-001-0005

Oil Field Waste Document, Form C138

INVOICE:

DATE

GENERATOR:

HAULING CO.

ORDERED BY:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

☐ Produced Water ☐ Drilling/Completion Fluids

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Knights	1	70			70	11/13/21 5:23 PM
2		Gallegos Canyon unit 124E						
3		GCV COMA #142 E						
4		Lateral 12-70						
5		James F. Bell #1E						

I, [Signature] representative or authorized agent for \_\_\_\_\_ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☒ Approved

☐ Denied

ATTENDANT SIGNATURE [Signature]

SAN JUAN PRINTING 2020 1973-1

# APPENDIX C





Environment Testing  
America

## ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola  
3355 McLemore Drive  
Pensacola, FL 32514  
Tel: (850)474-1001

Laboratory Job ID: 400-203817-1  
Client Project/Site: GCU 124E

For:

Stantec Consulting Services Inc  
11153 Aurora Avenue  
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Authorized for release by:  
6/7/2021 9:25:21 PM

Marty Edwards, Client Service Manager  
(850)471-6227  
[Marty.Edwards@Eurofinset.com](mailto:Marty.Edwards@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Laboratory Job ID: 400-203817-1

# Table of Contents

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## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

---

**Job ID: 400-203817-1**

---

**Laboratory: Eurofins TestAmerica, Pensacola**

---

**Narrative**

---

**Job Narrative**  
**400-203817-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/25/2021 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° C.

**GC/MS VOA**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



**Detection Summary**

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

**Client Sample ID: TB-01**

**Lab Sample ID: 400-203817-1**

No Detections.

**Client Sample ID: DUP-01**

**Lab Sample ID: 400-203817-2**

No Detections.

**Client Sample ID: MW-3**

**Lab Sample ID: 400-203817-3**

No Detections.

**Client Sample ID: MW-4**

**Lab Sample ID: 400-203817-4**

No Detections.

**Client Sample ID: MW-5**

**Lab Sample ID: 400-203817-5**

No Detections.

**Client Sample ID: MW-6**

**Lab Sample ID: 400-203817-6**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-203817-1	TB-01	Water	05/21/21 11:00	05/25/21 09:35	
400-203817-2	DUP-01	Water	05/21/21 12:28	05/25/21 09:35	
400-203817-3	MW-3	Water	05/21/21 11:28	05/25/21 09:35	
400-203817-4	MW-4	Water	05/21/21 11:39	05/25/21 09:35	
400-203817-5	MW-5	Water	05/21/21 11:47	05/25/21 09:35	
400-203817-6	MW-6	Water	05/21/21 11:53	05/25/21 09:35	

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Client Sample ID: TB-01

Lab Sample ID: 400-203817-1

Date Collected: 05/21/21 11:00

Matrix: Water

Date Received: 05/25/21 09:35

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 19:00	1
Toluene	<1.0		1.0	ug/L			06/03/21 19:00	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 19:00	1
Xylenes, Total	<10		10	ug/L			06/03/21 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		78 - 118		06/03/21 19:00	1
Dibromofluoromethane	105		81 - 121		06/03/21 19:00	1
Toluene-d8 (Surr)	93		80 - 120		06/03/21 19:00	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Client Sample ID: DUP-01

Lab Sample ID: 400-203817-2

Date Collected: 05/21/21 12:28

Matrix: Water

Date Received: 05/25/21 09:35

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 19:22	1
Toluene	<1.0		1.0	ug/L			06/03/21 19:22	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 19:22	1
Xylenes, Total	<10		10	ug/L			06/03/21 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		78 - 118		06/03/21 19:22	1
Dibromofluoromethane	104		81 - 121		06/03/21 19:22	1
Toluene-d8 (Surr)	95		80 - 120		06/03/21 19:22	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Client Sample ID: MW-3

Lab Sample ID: 400-203817-3

Date Collected: 05/21/21 11:28

Matrix: Water

Date Received: 05/25/21 09:35

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 19:45	1
Toluene	<1.0		1.0	ug/L			06/03/21 19:45	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 19:45	1
Xylenes, Total	<10		10	ug/L			06/03/21 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		78 - 118				06/03/21 19:45	1
Dibromofluoromethane	104		81 - 121				06/03/21 19:45	1
Toluene-d8 (Surr)	89		80 - 120				06/03/21 19:45	1

Eurofins TestAmerica, Pensacola

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Client Sample ID: MW-4

Lab Sample ID: 400-203817-4

Date Collected: 05/21/21 11:39

Matrix: Water

Date Received: 05/25/21 09:35

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/04/21 11:20	1
Toluene	<1.0		1.0	ug/L			06/04/21 11:20	1
Ethylbenzene	<1.0		1.0	ug/L			06/04/21 11:20	1
Xylenes, Total	<10		10	ug/L			06/04/21 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		78 - 118		06/04/21 11:20	1
Dibromofluoromethane	103		81 - 121		06/04/21 11:20	1
Toluene-d8 (Surr)	91		80 - 120		06/04/21 11:20	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Client Sample ID: MW-5

Lab Sample ID: 400-203817-5

Date Collected: 05/21/21 11:47

Matrix: Water

Date Received: 05/25/21 09:35

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/04/21 11:42	1
Toluene	<1.0		1.0	ug/L			06/04/21 11:42	1
Ethylbenzene	<1.0		1.0	ug/L			06/04/21 11:42	1
Xylenes, Total	<10		10	ug/L			06/04/21 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		78 - 118		06/04/21 11:42	1
Dibromofluoromethane	106		81 - 121		06/04/21 11:42	1
Toluene-d8 (Surr)	89		80 - 120		06/04/21 11:42	1

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Client Sample ID: MW-6

Lab Sample ID: 400-203817-6

Date Collected: 05/21/21 11:53

Matrix: Water

Date Received: 05/25/21 09:35

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/04/21 12:04	1
Toluene	<1.0		1.0	ug/L			06/04/21 12:04	1
Ethylbenzene	<1.0		1.0	ug/L			06/04/21 12:04	1
Xylenes, Total	<10		10	ug/L			06/04/21 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		78 - 118		06/04/21 12:04	1
Dibromofluoromethane	103		81 - 121		06/04/21 12:04	1
Toluene-d8 (Surr)	92		80 - 120		06/04/21 12:04	1



## QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

## GC/MS VOA

## Analysis Batch: 534185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203817-1	TB-01	Total/NA	Water	8260C	
400-203817-2	DUP-01	Total/NA	Water	8260C	
400-203817-3	MW-3	Total/NA	Water	8260C	
MB 400-534185/6	Method Blank	Total/NA	Water	8260C	
LCS 400-534185/1003	Lab Control Sample	Total/NA	Water	8260C	
400-204023-C-14 MS	Matrix Spike	Total/NA	Water	8260C	
400-204023-C-14 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

## Analysis Batch: 534361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203817-4	MW-4	Total/NA	Water	8260C	
400-203817-5	MW-5	Total/NA	Water	8260C	
400-203817-6	MW-6	Total/NA	Water	8260C	
MB 400-534361/6	Method Blank	Total/NA	Water	8260C	
LCS 400-534361/1003	Lab Control Sample	Total/NA	Water	8260C	
400-203817-4 MS	MW-4	Total/NA	Water	8260C	
400-203817-4 MSD	MW-4	Total/NA	Water	8260C	

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 400-534185/6

Matrix: Water

Analysis Batch: 534185

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/03/21 10:54	1
Toluene	<1.0		1.0	ug/L			06/03/21 10:54	1
Ethylbenzene	<1.0		1.0	ug/L			06/03/21 10:54	1
Xylenes, Total	<10		10	ug/L			06/03/21 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		78 - 118		06/03/21 10:54	1
Dibromofluoromethane	102		81 - 121		06/03/21 10:54	1
Toluene-d8 (Surr)	93		80 - 120		06/03/21 10:54	1

Lab Sample ID: LCS 400-534185/1003

Matrix: Water

Analysis Batch: 534185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.9		ug/L		100	70 - 130
Toluene	50.0	45.1		ug/L		90	70 - 130
Ethylbenzene	50.0	46.2		ug/L		92	70 - 130
Xylenes, Total	100	92.6		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		78 - 118
Dibromofluoromethane	106		81 - 121
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: 400-204023-C-14 MS

Matrix: Water

Analysis Batch: 534185

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	51.2		ug/L		102	56 - 142
Toluene	<1.0		50.0	45.3		ug/L		89	65 - 130
Ethylbenzene	<1.0		50.0	45.1		ug/L		90	58 - 131
Xylenes, Total	<10		100	90.5		ug/L		90	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	91		78 - 118
Dibromofluoromethane	103		81 - 121
Toluene-d8 (Surr)	91		80 - 120

Lab Sample ID: 400-204023-C-14 MSD

Matrix: Water

Analysis Batch: 534185

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<1.0		50.0	48.7		ug/L		97	56 - 142	5	30
Toluene	<1.0		50.0	42.6		ug/L		83	65 - 130	6	30
Ethylbenzene	<1.0		50.0	40.4		ug/L		81	58 - 131	11	30

Eurofins TestAmerica, Pensacola

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-204023-C-14 MSD

Matrix: Water

Analysis Batch: 534185

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	80.2		ug/L		80	59 - 130	12	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene	95		78 - 118								
Dibromofluoromethane	104		81 - 121								
Toluene-d8 (Surr)	92		80 - 120								

Lab Sample ID: MB 400-534361/6

Matrix: Water

Analysis Batch: 534361

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			06/04/21 10:58	1
Toluene	<1.0		1.0	ug/L			06/04/21 10:58	1
Ethylbenzene	<1.0		1.0	ug/L			06/04/21 10:58	1
Xylenes, Total	<10		10	ug/L			06/04/21 10:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		78 - 118				06/04/21 10:58	1
Dibromofluoromethane	104		81 - 121				06/04/21 10:58	1
Toluene-d8 (Surr)	92		80 - 120				06/04/21 10:58	1

Lab Sample ID: LCS 400-534361/1003

Matrix: Water

Analysis Batch: 534361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.3		ug/L		99	70 - 130
Toluene	50.0	42.9		ug/L		86	70 - 130
Ethylbenzene	50.0	43.9		ug/L		88	70 - 130
Xylenes, Total	100	86.7		ug/L		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene	92		78 - 118				
Dibromofluoromethane	103		81 - 121				
Toluene-d8 (Surr)	92		80 - 120				

Lab Sample ID: 400-203817-4 MS

Matrix: Water

Analysis Batch: 534361

Client Sample ID: MW-4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	51.1		ug/L		102	56 - 142
Toluene	<1.0		50.0	39.3		ug/L		79	65 - 130
Ethylbenzene	<1.0		50.0	37.0		ug/L		74	58 - 131
Xylenes, Total	<10		100	74.5		ug/L		75	59 - 130

Eurofins TestAmerica, Pensacola

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-203817-4 MS

Matrix: Water

Analysis Batch: 534361

Client Sample ID: MW-4

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	94		78 - 118
Dibromofluoromethane	104		81 - 121
Toluene-d8 (Surr)	87		80 - 120

Lab Sample ID: 400-203817-4 MSD

Matrix: Water

Analysis Batch: 534361

Client Sample ID: MW-4

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	47.2		ug/L		94	56 - 142	8	30
Toluene	<1.0		50.0	37.8		ug/L		76	65 - 130	4	30
Ethylbenzene	<1.0		50.0	35.6		ug/L		71	58 - 131	4	30
Xylenes, Total	<10		100	71.3		ug/L		71	59 - 130	4	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	95		78 - 118
Dibromofluoromethane	103		81 - 121
Toluene-d8 (Surr)	91		80 - 120

## Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

Client Sample ID: TB-01

Lab Sample ID: 400-203817-1

Date Collected: 05/21/21 11:00

Matrix: Water

Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534185	06/03/21 19:00	CAR	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: DUP-01

Lab Sample ID: 400-203817-2

Date Collected: 05/21/21 12:28

Matrix: Water

Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534185	06/03/21 19:22	CAR	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: MW-3

Lab Sample ID: 400-203817-3

Date Collected: 05/21/21 11:28

Matrix: Water

Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534185	06/03/21 19:45	CAR	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: MW-4

Lab Sample ID: 400-203817-4

Date Collected: 05/21/21 11:39

Matrix: Water

Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534361	06/04/21 11:20	WPD	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: MW-5

Lab Sample ID: 400-203817-5

Date Collected: 05/21/21 11:47

Matrix: Water

Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534361	06/04/21 11:42	WPD	TAL PEN
Instrument ID: CH_LARS										

Client Sample ID: MW-6

Lab Sample ID: 400-203817-6

Date Collected: 05/21/21 11:53

Matrix: Water

Date Received: 05/25/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	534361	06/04/21 12:04	WPD	TAL PEN
Instrument ID: CH_LARS										

## Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

### Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
New Jersey	NELAP	FL006	06-30-21
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-21
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-22
West Virginia DEP	State	136	06-30-21

Eurofins TestAmerica, Pensacola

Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: GCU 124E

Job ID: 400-203817-1

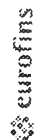
Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

**Protocol References:**  
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**  
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



## Chain of Custody Record



உயிர்ப்பிழைப்பு உயிர்ப்பிழைப்பு

[illegible]



## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-203817-1

Login Number: 203817

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing  
America

## ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola  
3355 McLemore Drive  
Pensacola, FL 32514  
Tel: (850)474-1001

Laboratory Job ID: 400-211287-1

Client Project/Site: Gallegos Canyon Unit #124E

For:

Stantec Consulting Services Inc  
11311 Aurora Avenue  
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Authorized for release by:  
11/29/2021 8:08:32 PM

Cheyenne Whitmire, Project Manager II  
(850)471-6222

[Cheyenne.Whitmire@Eurofinset.com](mailto:Cheyenne.Whitmire@Eurofinset.com)

### LINKS

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results through

TotalAccess

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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Laboratory Job ID: 400-211287-1

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## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

**Job ID: 400-211287-1**

**Laboratory: Eurofins TestAmerica, Pensacola**

### Narrative

**Job Narrative**  
**400-211287-1**

### Comments

No additional comments.

### Receipt

The samples were received on 11/16/2021 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7° C.

### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

**Client Sample ID: TB-01**

**Lab Sample ID: 400-211287-1**

☐ No Detections.

**Client Sample ID: DUP-01**

**Lab Sample ID: 400-211287-2**

☐ No Detections.

**Client Sample ID: MW-3**

**Lab Sample ID: 400-211287-3**

☐ No Detections.

**Client Sample ID: MW-4**

**Lab Sample ID: 400-211287-4**

☐ No Detections.

**Client Sample ID: MW-5**

**Lab Sample ID: 400-211287-5**

☐ No Detections.

**Client Sample ID: MW-6**

**Lab Sample ID: 400-211287-6**

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211287-1	TB-01	Water	11/12/21 13:00	11/16/21 09:10
400-211287-2	DUP-01	Water	11/12/21 14:43	11/16/21 09:10
400-211287-3	MW-3	Water	11/12/21 13:43	11/16/21 09:10
400-211287-4	MW-4	Water	11/12/21 13:47	11/16/21 09:10
400-211287-5	MW-5	Water	11/12/21 13:50	11/16/21 09:10
400-211287-6	MW-6	Water	11/12/21 13:58	11/16/21 09:10

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Client Sample ID: TB-01

Lab Sample ID: 400-211287-1

Date Collected: 11/12/21 13:00

Matrix: Water

Date Received: 11/16/21 09:10

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/22/21 14:13	1
Toluene	<1.0		1.0	ug/L			11/22/21 14:13	1
Ethylbenzene	<1.0		1.0	ug/L			11/22/21 14:13	1
Xylenes, Total	<10		10	ug/L			11/22/21 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		72 - 119		11/22/21 14:13	1
Dibromofluoromethane	108		75 - 126		11/22/21 14:13	1
Toluene-d8 (Surr)	82		64 - 132		11/22/21 14:13	1

Eurofins TestAmerica, Pensacola



## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Client Sample ID: DUP-01

Lab Sample ID: 400-211287-2

Date Collected: 11/12/21 14:43

Matrix: Water

Date Received: 11/16/21 09:10

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/22/21 12:28	1
Toluene	<1.0		1.0	ug/L			11/22/21 12:28	1
Ethylbenzene	<1.0		1.0	ug/L			11/22/21 12:28	1
Xylenes, Total	<10		10	ug/L			11/22/21 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	86		72 - 119		11/22/21 12:28	1
Dibromofluoromethane	112		75 - 126		11/22/21 12:28	1
Toluene-d8 (Surr)	77		64 - 132		11/22/21 12:28	1

Eurofins TestAmerica, Pensacola

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Client Sample ID: MW-3

Lab Sample ID: 400-211287-3

Date Collected: 11/12/21 13:43

Matrix: Water

Date Received: 11/16/21 09:10

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/22/21 12:02	1
Toluene	<1.0		1.0	ug/L			11/22/21 12:02	1
Ethylbenzene	<1.0		1.0	ug/L			11/22/21 12:02	1
Xylenes, Total	<10		10	ug/L			11/22/21 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		72 - 119		11/22/21 12:02	1
Dibromofluoromethane	108		75 - 126		11/22/21 12:02	1
Toluene-d8 (Surr)	77		64 - 132		11/22/21 12:02	1

Eurofins TestAmerica, Pensacola

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Client Sample ID: MW-4

Lab Sample ID: 400-211287-4

Date Collected: 11/12/21 13:47

Matrix: Water

Date Received: 11/16/21 09:10

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/22/21 14:39	1
Toluene	<1.0		1.0	ug/L			11/22/21 14:39	1
Ethylbenzene	<1.0		1.0	ug/L			11/22/21 14:39	1
Xylenes, Total	<10		10	ug/L			11/22/21 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		72 - 119		11/22/21 14:39	1
Dibromofluoromethane	105		75 - 126		11/22/21 14:39	1
Toluene-d8 (Surr)	79		64 - 132		11/22/21 14:39	1

Eurofins TestAmerica, Pensacola

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Client Sample ID: MW-5

Lab Sample ID: 400-211287-5

Date Collected: 11/12/21 13:50

Matrix: Water

Date Received: 11/16/21 09:10

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/22/21 15:06	1
Toluene	<1.0		1.0	ug/L			11/22/21 15:06	1
Ethylbenzene	<1.0		1.0	ug/L			11/22/21 15:06	1
Xylenes, Total	<10		10	ug/L			11/22/21 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		72 - 119		11/22/21 15:06	1
Dibromofluoromethane	108		75 - 126		11/22/21 15:06	1
Toluene-d8 (Surr)	80		64 - 132		11/22/21 15:06	1

Eurofins TestAmerica, Pensacola

## Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Client Sample ID: MW-6

Lab Sample ID: 400-211287-6

Date Collected: 11/12/21 13:58

Matrix: Water

Date Received: 11/16/21 09:10

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/22/21 15:32	1
Toluene	<1.0		1.0	ug/L			11/22/21 15:32	1
Ethylbenzene	<1.0		1.0	ug/L			11/22/21 15:32	1
Xylenes, Total	<10		10	ug/L			11/22/21 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	85		72 - 119		11/22/21 15:32	1
Dibromofluoromethane	110		75 - 126		11/22/21 15:32	1
Toluene-d8 (Surr)	84		64 - 132		11/22/21 15:32	1

Eurofins TestAmerica, Pensacola

## QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

## GC/MS VOA

## Analysis Batch: 556856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211287-1	TB-01	Total/NA	Water	8260C	
400-211287-2	DUP-01	Total/NA	Water	8260C	
400-211287-3	MW-3	Total/NA	Water	8260C	
400-211287-4	MW-4	Total/NA	Water	8260C	
400-211287-5	MW-5	Total/NA	Water	8260C	
400-211287-6	MW-6	Total/NA	Water	8260C	
MB 400-556856/4	Method Blank	Total/NA	Water	8260C	
LCS 400-556856/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211287-3 MS	MW-3	Total/NA	Water	8260C	
400-211287-3 MSD	MW-3	Total/NA	Water	8260C	

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 400-556856/4

Matrix: Water

Analysis Batch: 556856

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0	ug/L			11/22/21 11:36	1
Toluene	<1.0		1.0	ug/L			11/22/21 11:36	1
Ethylbenzene	<1.0		1.0	ug/L			11/22/21 11:36	1
Xylenes, Total	<10		10	ug/L			11/22/21 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		72 - 119		11/22/21 11:36	1
Dibromofluoromethane	109		75 - 126		11/22/21 11:36	1
Toluene-d8 (Surr)	79		64 - 132		11/22/21 11:36	1

Lab Sample ID: LCS 400-556856/1002

Matrix: Water

Analysis Batch: 556856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.2		ug/L		98	70 - 130
Toluene	50.0	40.7		ug/L		81	70 - 130
Ethylbenzene	50.0	48.4		ug/L		97	70 - 130
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	88		72 - 119
Dibromofluoromethane	104		75 - 126
Toluene-d8 (Surr)	76		64 - 132

Lab Sample ID: 400-211287-3 MS

Matrix: Water

Analysis Batch: 556856

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	48.6		ug/L		97	56 - 142
Toluene	<1.0		50.0	37.5		ug/L		75	65 - 130
Ethylbenzene	<1.0		50.0	43.7		ug/L		87	58 - 131
Xylenes, Total	<10		100	91.5		ug/L		91	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	83		72 - 119
Dibromofluoromethane	104		75 - 126
Toluene-d8 (Surr)	74		64 - 132

Lab Sample ID: 400-211287-3 MSD

Matrix: Water

Analysis Batch: 556856

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<1.0		50.0	46.9		ug/L		94	56 - 142	4	30
Toluene	<1.0		50.0	37.9		ug/L		76	65 - 130	1	30
Ethylbenzene	<1.0		50.0	40.6		ug/L		81	58 - 131	7	30

Eurofins TestAmerica, Pensacola

## QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 400-211287-3 MSD

Matrix: Water

Analysis Batch: 556856

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	<10		100	84.7		ug/L		85	59 - 130	8	30
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene	86		72 - 119								
Dibromofluoromethane	101		75 - 126								
Toluene-d8 (Surr)	78		64 - 132								



## Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

## Client Sample ID: TB-01

Date Collected: 11/12/21 13:00

Date Received: 11/16/21 09:10

## Lab Sample ID: 400-211287-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556856	11/22/21 14:13	HML	TAL PEN
Instrument ID: CH_CONAN										

## Client Sample ID: DUP-01

Date Collected: 11/12/21 14:43

Date Received: 11/16/21 09:10

## Lab Sample ID: 400-211287-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556856	11/22/21 12:28	HML	TAL PEN
Instrument ID: CH_CONAN										

## Client Sample ID: MW-3

Date Collected: 11/12/21 13:43

Date Received: 11/16/21 09:10

## Lab Sample ID: 400-211287-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556856	11/22/21 12:02	HML	TAL PEN
Instrument ID: CH_CONAN										

## Client Sample ID: MW-4

Date Collected: 11/12/21 13:47

Date Received: 11/16/21 09:10

## Lab Sample ID: 400-211287-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556856	11/22/21 14:39	HML	TAL PEN
Instrument ID: CH_CONAN										

## Client Sample ID: MW-5

Date Collected: 11/12/21 13:50

Date Received: 11/16/21 09:10

## Lab Sample ID: 400-211287-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556856	11/22/21 15:06	HML	TAL PEN
Instrument ID: CH_CONAN										

## Client Sample ID: MW-6

Date Collected: 11/12/21 13:58

Date Received: 11/16/21 09:10

## Lab Sample ID: 400-211287-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	556856	11/22/21 15:32	HML	TAL PEN
Instrument ID: CH_CONAN										

## Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

### Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-12-22
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	11-30-21
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-21
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-21
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
New Jersey	NELAP	FL006	06-30-22
North Carolina (WW/SW)	State	314	12-31-21
Oklahoma	State	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-22
Rhode Island	State	LAO00307	12-30-21
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
Washington	State	C915	05-15-22
West Virginia DEP	State	136	12-31-21

Eurofins TestAmerica, Pensacola

## Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: Gallegos Canyon Unit #124E

Job ID: 400-211287-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030C	Purge and Trap	SW846	TAL PEN

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola

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Eurofins TestAmerica, Pensacola

Chain of Custody Record



Environment Testing America

3355 McLeomore Drive  
Pensacola, FL 32514  
Phone: 850-474-1001 Fax: 850-478-2671

Client Information

Client Contact:  
Steve Varsa

Phone:  
913-980-0281

Lab P#: Edwards, Marty P

Carrier Tracking No(s):

COC No: 400-106797-37672.1

Company:  
Stanec Consulting Services Inc

Address:  
11311 Aurora Avenue

E-Mail: Marty.Edwards@Eurofins.com

State of Origin:

Page: 1 of 1

City:  
Des Moines

Due Date Requested:

Job #:

State, Zip:  
IA, 50322-7904

TAT Requested (days):

Preservation Codes:

Phone:  
303-291-2239(Tel)

Compliance Project: ☐ Yes ☐ No

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Other:

Email:  
steve.varsa@stanec.com

PO #:  
WD801942

Matrix (W-water, S-solid, O-oil, A-Air)

8260C - (MOD) BTEX 8260

Project #:  
40005479

Project Name:  
Gallegos Canyon Unit #124E.00

SSOW#:

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Site:

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Site:

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Site:

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Site:

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

TB-01

11/12/21

1300

G

DUP-01

11/12/21

1443

G

MM-3

11/12/21

1343

G

MM-4

11/12/21

1347

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MM-5

11/12/21

1350

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MM-6

11/12/21

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## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-211287-1

Login Number: 211287

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**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 94268

**CONDITIONS**

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 94268
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	Review of the 2021 Annual Groundwater Report: Content satisfactory 1. OCD approves "Planned Future Activities" as stated in report. 2. Submit next annual report to OCD no later than March 31, 2023.	11/23/2022