2022 ANNUAL GROUNDWATER REPORT

Gallegos Canyon Unit #142E
Incident Number: nAUTOfAB000219
Meter Code: 03906
T29N, R12W Sec 25, Unit G

SITE DETAILS

Site Location: Latitude: 36.699300 N, Longitude: -108.046700 W
Land Type: Private/Fee
Operator: Simcoe LLC

SITE BACKGROUND

Environmental emediation activities at the Gallegos Canyon Unit #142 (Site) are being 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, LLC's (EPCGP's) program methods. Currently, the Site is operated by Simcoe LLC (Simcoe), and is active. According to NMOCD records, Simcoe assumed operation of the Site from BP America Production Company (BP), on February 28, 2020.

The Site is located on private land (T29N, R12W, Sec25, Unit G). An initial site assessment was completed in April 1994, and an excavation to approximately 9 feet below ground surface (bgs) was completed in April 1994, removing approximately 20 cubic yards (cy) of soil. In October 1998 another excavation was completed, removing 882 cy of soil. Various site investigations have occurred since 1997. Temporary piezometers PZ-1 through PZ-6 were installed and removed in 1997. Monitoring wells were installed in 1997 (MW-1), 2001 (MW-2), and 2014 (MW-3 and MW-5 through MW-8). Monitoring well MW-4 was advanced as a soil boring but was not installed. The location of the Site is presented on Figure 1. A Site Plan map depicting the locations of monitoring wells, piezometers, soil borings, and current and historical site features is provided as Figure 2.

According to an April 5, 2018, C-141 form submitted by BP, a release was discovered from a discharge pit located in the vicinity of MW-2 in January 1996. On June 2, 1996, light nonaqueous-phase liquid (LNAPL) was discovered in monitoring well MW-2. LNAPL was subsequently discovered in monitoring wells MW-3, MW-8, and TW-1. EPCGP prepared a site conceptual model (SCM) providing a summary of the assessment and remedial activities completed by EPCGP for their release and known information regarding the BP release. Based on the available information, no further action by EPCGP was recommended, and the SCM and no further action request was submitted to the NMOCD on February 11, 2019. To date, no response from the NMOCD has been received regarding this request. In the interim, groundwater sampling continues to be conducted on a semi-annual basis.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the 1995 remediation plan Stantec provided access notifications via email to NMOCD on May 12, 2022, and October 26, 2022. Copies of the access notifications are provided as Appendix A. On May 19 and November 2, 2022, water levels were gauged at MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, and MW-8. No LNAPL was detected in site monitoring wells during water level gauging in 2022. Groundwater samples were collected from each well using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were

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set during the previous sampling event approximately 0.5 foot above the bottom of the screened interval using a suspension tether and stainless-steel weights to collect a sample from the screened interval.

The groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins Environment Testing Southeast, LLC, in Pensacola, Florida. One trip blank and one blind field blank were also collected during each sampling event. Each groundwater sample, field blank, and trip blank were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (EPA) Method 8260. The unused sample water was placed in a waste container and transported to Envirotech, Inc. (Envirotech), located south of Bloomfield, NM for disposal. Waste disposal documentation is included as Appendix B.

SUMMARY TABLES

Historic analytical and water level data are summarized in Table 1 and Table 2, respectively.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2022 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 generally to the south-southeast during 2022 (see Figures 4 and 6).

- The concentration of benzene detected in samples collected from MW-1 and MW-2 in May 2022 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. The concentrations of benzene detected in the samples collected from MW-2 and MW-8 in November 2022 exceeded the NMWQCC standard for benzene in groundwater. Monitoring wells MW-1, MW-2, and MW-8 are located hydraulically downgradient from the 1996 BP release, and wells MW-2 and MW-8 are upgradient from the original EPCGP pit being addressed under this incident number. Detections of benzene in remaining groundwater samples collected from site wells in 2022 were below the NMWQCC standard or were not detected.

- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or were not detected in the site monitoring wells sampled in 2022.

- The concentration of ethylbenzene detected in MW-2 in May 2022 exceeded the NMWQCC standard (750 µg/L). Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in the remaining site monitoring wells sampled in 2022.

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- The concentration of total xylenes detected in the sample collected from MW-2 exceeded the NMWQCC standard (620 µg/L) in May and November 2022. Total xylenes detected in samples from the other site monitoring wells in 2022 were either below the NMWQCC standard or were not detected for total xylenes.

- A field duplicate was collected from monitoring well MW-8 during the May and November 2022 sampling events. Significant discrepancies were not noted between either set of primary and duplicate samples.

- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2022 groundwater monitoring events.

SITE CLOSURE REQUEST

EPCGP respectfully requests a response from the NMOCD to the February 2019 SCM and No Further Action request. Data presented in that document and subsequent water quality data presented in this report indicate the remaining dissolved hydrocarbon impacts at the site are related to releases by BP.

TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Gallegos Canyon Unit #142E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	03/10/97	4010	7960	213	2050
MW-1	08/06/97	1040	1310	49.4	647
MW-1	11/05/97	543	719	33.9	342
MW-1	02/13/98	343	354	27.6	394
MW-1	05/06/98	429	216	13.6	176
MW-1	05/04/99	143	20.4	7.78	63.3
MW-1	05/25/00	230	4.4	6	450
MW-1	06/01/01	130	0.5	3.5	6.1
MW-1	05/14/02	34	4.9	1	3.3
MW-1	03/07/03	270	36.8	8.3	21.1
MW-1	09/17/03	150	77	1.9	12.8
MW-1	03/22/04	1.4	<0.14	<0.029	<0.082
MW-1	03/17/05	169	1.3	2.7	6.6
MW-1	06/23/05	810	1.9	0.62	8.1
MW-1	09/26/05	232	14.9	4	15.1
MW-1	12/14/05	354	10.6	5.9	25.6
MW-1	01/09/06	NS	NS	NS	NS
MW-1	01/18/06	NS	NS	NS	NS
MW-1	03/28/06	362	0.37J	15	15.7
MW-1	06/14/06	210	6.5	2.3	6.1
MW-1	06/28/07	109	12.6	1.1	5.5
MW-1	06/23/08	2320	305	140	934
MW-1	06/02/09	35.3	<1	0.75J	1.4J
MW-1	12/30/09	597	10.7J	26.5	159
MW-1	01/25/10	NS	NS	NS	NS
MW-1	05/25/10	NS	NS	NS	NS
MW-1	09/24/10	NS	NS	NS	NS
MW-1	11/09/10	8610	2770	348	2810
MW-1	02/01/11	NS	NS	NS	NS
MW-1	05/03/11	NS	NS	NS	NS
MW-1	09/27/11	NS	NS	NS	NS
MW-1	11/16/11	229	36.2	5.3	39.3
MW-1	02/16/12	NS	NS	NS	NS
MW-1	05/07/12	NS	NS	NS	NS
MW-1	06/07/13	810	<0.30	<0.20	4.3J
MW-1	09/11/13	25	<0.30	<0.20	0.39J
MW-1	12/13/13	330	<0.90	6.9	20
MW-1	04/03/14	560	<3.8	<2.0	<6.5
MW-1	10/25/14	57	<0.70	1.9	3J
MW-1	05/30/15	270	<5.0	1.6	32
MW-1	11/18/15	990	1.6	26	250

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Gallegos Canyon Unit #142E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	04/18/16	22	<5.0	<1.0	<5.0
MW-1	10/14/16	520	<10	<2.0	<10
MW-1	06/11/17	190	<10	<2.0	<10
MW-1	11/13/17	45	<1.0	<1.0	<10
MW-1	05/17/18	8.6	<1.0	<1.0	<10
DP-01(MW-1)*	05/17/18	8.4	<1.0	<1.0	<10
MW-1	10/28/18	1.5	<1.0	<1.0	<10
MW-1	05/22/19	85	<1.0	1	<10
MW-1	11/11/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-1)*	11/11/19	<1.0	<1.0	<1.0	<10
MW-1	05/15/20	14	<1.0	<1.0	<10
MW-1	11/11/20	<1.0	<1.0	<1.0	<10
MW-1	05/21/21	54	<1.0	<1.0	<10
MW-1	11/12/21	2.5	<1.0	<1.0	<10
MW-1	05/19/22	11	<1.0	<1.0	<10
MW-1	11/02/22	4.0	<1.0	<1.0	<10
MW-2	12/13/01	22000	25000	500	4300
MW-2	05/14/02	NS	NS	NS	NS
MW-2	09/17/03	6890	4760	219	1770
MW-2	03/22/04	13000	8880	321	2850
MW-2	03/17/05	2800	1640	125	978
MW-2	09/14/05	1980	915	63.8	391
MW-2	01/09/06	NS	NS	NS	NS
MW-2	01/18/06	NS	NS	NS	NS
MW-2	06/14/06	2140	811	83.5	610
MW-2	06/28/07	2100	492	140	1050
MW-2	06/23/08	221	1.5J	3.9	5.8
MW-2	06/02/09	NS	NS	NS	NS
MW-2	12/30/09	6660	6750	764	6210
MW-2	01/25/10	NS	NS	NS	NS
MW-2	05/25/10	NS	NS	NS	NS
MW-2	09/24/10	NS	NS	NS	NS
MW-2	11/09/10	3900	2450	342	2660
MW-2	02/01/11	NS	NS	NS	NS
MW-2	05/03/11	NS	NS	NS	NS
MW-2	09/27/11	NS	NS	NS	NS
MW-2	11/16/11	2040	1020	231	1520
MW-2	02/16/12	NS	NS	NS	NS
MW-2	05/07/12	NS	NS	NS	NS
MW-2	06/07/13	6000	1100	500	3800
MW-2	09/11/13	2200	470	240	1900

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Gallegos Canyon Unit #142E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	12/13/13	5500	830	510	3700
MW-2	04/03/14	NS	NS	NS	NS
MW-2	10/25/14	NS	NS	NS	NS
MW-2	05/30/15	3300	140	570	3400
MW-2	11/18/15	4000	120	520	1500
MW-2	04/18/16	NS	NS	NS	NS
MW-2	10/14/16	NS	NS	NS	NS
MW-2	06/11/17	NS	NS	NS	NS
MW-2	11/13/17	2100	77	220	1800
MW-2	05/17/18	NS	NS	NS	NS
MW-2	10/28/18	NS	NS	NS	NS
MW-2	05/22/19	1500	<25	840	6200
MW-2	11/11/19	1000	<10	390	2800
MW-2	05/15/20	1100	<25	450	3000
MW-2	11/11/20	1100	<10	550	3800
MW-2	05/21/21	960	<10	600	6100
MW-2	11/12/21	660	<20	520	3200
MW-2	05/19/22	1200	<50	800	5700
MW-2	11/02/22	470	<5.0	350	1300
MW-3	10/25/14	<0.38	<0.70	<0.50	<1.6
MW-3	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/18/16	NS	NS	NS	NS
MW-3	10/14/16	NS	NS	NS	NS
MW-3	06/11/17	NS	NS	NS	NS
MW-3	11/13/17	69	7.8	6.8	160
MW-3	05/17/18	11	6.4	18	200
MW-3	10/28/18	<1.0	<1.0	<1.0	<10
MW-3	05/22/19	2.3	<1.0	1.3	18
MW-3	11/11/19	<1.0	<1.0	<1.0	<10
MW-3	05/15/20	5.0	<1.0	<1.0	<10
DUP-1(MW-3)*	05/15/20	5.2	<1.0	<1.0	<10
MW-3	11/11/20	<1.0	<1.0	<1.0	<10
MW-3	05/21/21	2.1	<1.0	<1.0	<10
MW-3	11/12/21	<1.0	<1.0	<1.0	<10
MW-3	05/19/22	<1.0	<1.0	<1.0	<10
MW-3	11/02/22	<1.0	<1.0	<1.0	<10
MW-5	10/25/14	1.8	<0.70	0.89J	11
MW-5	05/30/15	<1.0	<5.0	<1.0	<5.0
MW-5	11/18/15	<1.0	<1.0	<1.0	<3.0

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Gallegos Canyon Unit #142E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	04/18/16	22	<5.0	<1.0	5.9
MW-5	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-5	06/11/17	13	<5.0	1.9	15
MW-5	11/13/17	<1.0	<1.0	<1.0	<10
MW-5	05/17/18	<1.0	<1.0	<1.0	<10
MW-5	10/28/18	<1.0	<1.0	<1.0	<10
DUP-1(MW-5)*	10/28/18	<1.0	<1.0	<1.0	<10
MW-5	05/22/19	<1.0	<1.0	<1.0	<10
MW-5	11/11/19	<1.0	<1.0	<1.0	<10
MW-5	05/15/20	<1.0	<1.0	<1.0	<10
MW-5	11/11/20	<1.0	<1.0	<1.0	<10
MW-5	05/21/21	<1.0	<1.0	<1.0	<10
MW-5	11/12/21	<1.0	<1.0	<1.0	<10
MW-5	05/19/22	<1.0	<1.0	<1.0	<10
MW-5	11/02/22	<1.0	<1.0	<1.0	<10
MW-6	10/25/14	1.1	<0.70	<0.50	<1.6
MW-6	05/30/15	190	<25	<5.0	110
MW-6	11/18/15	<1.0	<1.0	<1.0	<3.0
MW-6	04/18/16	47	<5.0	20	6.4
MW-6	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-6	06/11/17	2.2	<5.0	<1.0	<5.0
MW-6	11/13/17	<1.0	<1.0	<1.0	<10
MW-6	05/17/18	<1.0	<1.0	<1.0	<10
MW-6	10/28/18	<1.0	<1.0	<1.0	<10
MW-6	05/22/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-6)*	05/22/19	<1.0	<1.0	<1.0	<10
MW-6	11/11/19	<1.0	<1.0	<1.0	<10
MW-6	05/15/20	<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-6	05/19/22	<1.0	<1.0	<1.0	<10
MW-6	11/02/22	<1.0	<1.0	<1.0	<10
MW-7	10/25/14	4.7	0.7J	1.7	5.7J
MW-7	05/30/15	6.5	<5.0	<1.0	1.8J
MW-7	11/18/15	4.3	<1.0	<1.0	<3.0
MW-7	04/18/16	480	350	31	200
MW-7	10/14/16	<1.0	<5.0	<1.0	<5.0
MW-7	06/11/17	120	11	1.9	18
MW-7	11/13/17	7.4	<1.0	<1.0	<10
MW-7	05/17/18	15	<1.0	<1.0	<10

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Gallegos Canyon Unit #142E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-7	10/28/18	<1.0	<1.0	<1.0	<10
MW-7	05/22/19	<1.0	<1.0	<1.0	<10
MW-7	11/11/19	<1.0	<1.0	<1.0	<10
MW-7	05/15/20	38	<1.0	1.9	<10
MW-7	11/11/20	<1.0	<1.0	<1.0	<10
MW-7	05/21/21	<1.0	<1.0	<1.0	<10
MW-7	11/12/21	<1.0	<1.0	<1.0	<10
MW-7	05/19/22	<1.0	<1.0	<1.0	<10
MW-7	11/02/22	<1.0	<1.0	<1.0	<10
TMW-1	01/06/06	NS	NS	NS	NS
TMW-1	01/09/06	NS	NS	NS	NS
TMW-1	01/18/06	NS	NS	NS	NS
TMW-1	06/23/08	NS	NS	NS	NS
TMW-1	12/30/09	3660	1550	520	4110
TMW-1	01/25/10	NS	NS	NS	NS
TMW-1	05/25/10	NS	NS	NS	NS
TMW-1	09/24/10	NS	NS	NS	NS
TMW-1	11/09/10	8880	14400	956	9040
TMW-1	02/01/11	NS	NS	NS	NS
TMW-1	05/03/11	NS	NS	NS	NS
TMW-1	09/27/11	NS	NS	NS	NS
TMW-1	11/16/11	3890	6250	420	3610
TMW-1	02/16/12	NS	NS	NS	NS
TMW-1	05/07/12	NS	NS	NS	NS
TMW-1	06/07/13	5100	1100	190	2600
TMW-1	09/11/13	6600	960	190	2600
TMW-1	12/13/13	6500	2200	410	4000
TMW-1	04/03/14	NS	NS	NS	NS
TMW-1 abandoned on September 8, 2014, and replaced with MW-8					
MW-8	10/25/14	0.77J	<0.70	<0.50	<1.6
MW-8	05/30/15	36	<5.0	3.1	19
MW-8	11/18/15	6.6	<1.0	<1.0	<3.0
MW-8	04/18/16	3	<5.0	<1.0	<5.0
MW-8	10/14/16	4.8	<5.0	<1.0	<5.0
MW-8	06/11/17	NS	NS	NS	NS
MW-8	11/13/17	1900	65	190	1600
MW-8	05/17/18	96	3.4	5.2	74
MW-8	10/28/18	<1.0	<1.0	<1.0	<10
MW-8	05/22/19	1200	<10	120	700
MW-8	11/11/19	1.6	<1.0	<1.0	<10

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Gallegos Canyon Unit #142E					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-8	05/15/20	660	<5.0	31	<50
MW-8	11/11/20	<1.0	<1.0	<1.0	<10
DUP-1(MW-8)*	11/11/20	2.4	<1.0	<1.0	<10
MW-8	05/21/21	790	<5.0	6.3	<50
DUP-1(MW-8)*	05/21/21	590	<5.0	<5.0	<50
MW-8	11/12/21	150	<1.0	7.2	24
DUP-1(MW-8)*	11/12/21	130	<1.0	5.5	18
MW-8	05/19/22	1.2	<1.0	<1.0	<10
DUP-1(MW-8)*	05/19/22	1.5	<1.0	<1.0	<10
MW-8	11/02/22	49	<1.0	1.7	<10
DUP-1(MW-8)*	11/02/22	51	<1.0	1.9	<10

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 2 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #142E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	03/10/97	5481.83	NR	16.78		5465.05
MW-1	08/06/97	5481.83	NR	14.46		5467.37
MW-1	11/05/97	5481.83	NR	15.02		5466.81
MW-1	02/13/98	5481.83	NR	18.18		5463.65
MW-1	05/06/98	5481.83	NR	18.69		5463.14
MW-1	05/04/99	5481.83	NR	17.61		5464.22
MW-1	05/25/00	5481.83	NR	16.44		5465.39
MW-1	06/01/01	5481.83	NR	17.08		5464.75
MW-1	05/14/02	5481.83	NR	14.70		5467.13
MW-1	03/07/03	5481.83	ND	15.32		5466.52
MW-1	09/17/03	5481.83	ND	DRY		5460.12
MW-1	03/22/04	5481.83	ND	17.38		5464.45
MW-1	03/17/05	5481.83	ND	18.15		5463.69
MW-1	06/23/05	5481.83	ND	14.72		5467.11
MW-1	09/26/05	5481.83	ND	11.95		5469.88
MW-1	12/14/05	5481.83	ND	14.67		5467.16
MW-1	01/09/06	5481.83	ND	15.67		5466.16
MW-1	01/18/06	5481.83	ND	15.97		5465.86
MW-1	03/28/06	5481.83	ND	18.16		5463.67
MW-1	06/14/06	5481.83	ND	13.08		5468.75
MW-1	06/28/07	5481.83	ND	16.18		5465.65
MW-1	06/23/08	5481.83	ND	15.45		5466.38
MW-1	06/02/09	5481.83	ND	17.80		5464.03
MW-1	12/30/09	5481.83	ND	16.82		5465.01
MW-1	01/25/10	5481.83	ND	17.61		5464.22
MW-1	05/25/10	5481.83	ND	18.45		5463.38
MW-1	09/24/10	5481.83	ND	14.59		5467.24
MW-1	11/09/10	5481.83	ND	14.86		5466.97
MW-1	02/01/11	5481.83	ND	17.46		5464.37
MW-1	05/03/11	5481.83	ND	19.22		5462.61
MW-1	09/27/11	5481.83	ND	11.12		5470.71
MW-1	11/16/11	5481.83	ND	12.75		5469.08
MW-1	02/16/12	5481.83	ND	15.47		5466.36
MW-1	05/07/12	5481.83	ND	16.21		5465.62
MW-1	06/07/13	5481.83	ND	14.06		5467.77
MW-1	09/11/13	5481.83	ND	12.61		5469.22
MW-1	12/13/13	5481.83	ND	14.22		5467.61
MW-1	04/03/14	5481.83	ND	17.66		5464.17
MW-1	10/25/14	5481.83	ND	12.69		5469.14
MW-1	05/30/15	5481.83	ND	16.29		5465.54
MW-1	11/18/15	5481.83	ND	14.52		5467.31
MW-1	04/18/16	5481.83	ND	19.06		5462.77
MW-1	10/14/16	5481.83	ND	15.54		5466.29
MW-1	06/11/17	5481.83	ND	17.44		5464.39

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #142E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/13/17	5481.83	ND	14.65		5467.18
MW-1	05/17/18	5481.83	ND	16.74		5465.09
MW-1	10/28/18	5481.83	ND	12.31		5469.52
MW-1	05/22/19	5481.83	ND	15.85		5465.98
MW-1	11/11/19	5481.83	ND	11.51		5470.32
MW-1	05/15/20	5481.83	ND	15.37		5466.46
MW-1	11/11/20	5481.83	ND	11.91		5469.92
MW-1	05/21/21	5481.83	ND	15.78		5466.05
MW-1	11/12/21	5481.83	ND	12.70		5469.13
MW-1	05/19/22	5481.83	ND	16.26		5465.57
MW-1	11/02/22	5481.83	ND	13.10		5468.73
MW-2	12/13/01	5481.56	NR	14.52		5467.04
MW-2	05/14/02	5481.56	NR	14.37		5467.19
MW-2	09/17/03	5481.56	ND	DRY		5463.56
MW-2	03/22/04	5481.56	ND	17.06		5464.50
MW-2	03/17/05	5481.56	ND	17.83		5463.73
MW-2	09/14/05	5481.56	ND	11.45		5470.11
MW-2	01/09/06	5481.56	ND	15.35		5466.21
MW-2	01/18/06	5481.56	ND	15.65		5465.91
MW-2	06/14/06	5481.56	ND	12.64		5468.92
MW-2	06/28/07	5481.56	ND	16.86		5464.70
MW-2	06/23/08	5481.56	ND	15.15		5466.41
MW-2	06/02/09	5481.56	17.42	17.84	0.42	5464.04
MW-2	12/30/09	5481.56	16.45	16.48	0.03	5465.10
MW-2	01/25/10	5481.56	17.27	17.45	0.18	5464.25
MW-2	05/25/10	5481.56	18.05	18.55	0.50	5463.39
MW-2	09/24/10	5481.56	ND	14.25		5467.31
MW-2	11/09/10	5481.56	14.49	14.50	0.01	5467.07
MW-2	02/01/11	5481.56	ND	17.15		5464.41
MW-2	05/03/11	5481.56	ND	18.91		5462.65
MW-2	09/27/11	5481.56	ND	12.65		5468.91
MW-2	11/16/11	5481.56	ND	12.37		5469.19
MW-2	02/16/12	5481.56	ND	15.13		5466.43
MW-2	05/07/12	5481.56	ND	16.91		5464.65
MW-2	06/07/13	5481.56	ND	13.63		5467.93
MW-2	09/11/13	5481.56	ND	12.18		5469.38
MW-2	12/13/13	5481.56	ND	13.92		5467.64
MW-2	04/03/14	5481.56	17.31	17.42	0.11	5464.22
MW-2	10/25/14	5481.56	ND	12.14		5469.42
MW-2	05/30/15	5481.56	ND	15.92		5465.64
MW-2	11/18/15	5481.56	ND	14.26		5467.30
MW-2	04/18/16	5481.56	18.69	18.99	0.30	5462.80
MW-2	10/14/16	5481.56	ND	15.26		5466.30

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #142E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	06/11/17	5481.56	17.09	17.23	0.14	5464.44
MW-2	11/13/17	5481.56	ND	14.28		5467.28
MW-2	05/17/18	5481.56	16.39	16.43	0.04	5465.16
MW-2	10/28/18	5481.56	ND	11.67		5469.89
MW-2	05/22/19	5481.56	ND	15.56		5466.00
MW-2	11/11/19	5481.56	ND	10.92		5470.64
MW-2	05/15/20	5481.56	ND	15.05		5466.51
MW-2	11/11/20	5481.56	ND	11.35		5470.21
MW-2	05/21/21	5481.56	ND	15.43		5466.13
MW-2	11/12/21	5481.56	ND	12.19		5469.37
MW-2	05/19/22	5481.56	ND	15.93		5465.63
MW-2	11/02/22	5481.56	ND	12.69		5468.87
MW-3	10/25/14	5481.87	ND	12.53		5469.34
MW-3	05/30/15	5481.87	ND	16.32		5465.55
MW-3	11/18/15	5481.87	ND	14.65		5467.22
MW-3	04/18/16	5481.87	ND	19.18		5462.69
MW-3	10/14/16	5481.87	ND	15.64		5466.23
MW-3	06/11/17	5481.87	17.40	17.57	0.17	5464.43
MW-3	11/13/17	5481.87	ND	14.64		5467.23
MW-3	05/17/18	5481.87	ND	16.60		5465.27
MW-3	10/28/18	5481.87	ND	11.93		5469.94
MW-3	05/22/19	5481.87	ND	15.85		5466.02
MW-3	11/11/19	5481.87	ND	11.25		5470.62
MW-3	05/15/20	5481.87	ND	15.31		5466.56
MW-3	11/11/20	5481.87	ND	11.69		5470.18
MW-3	05/21/21	5481.87	ND	15.75		5466.12
MW-3	11/12/21	5481.87	ND	12.52		5469.35
MW-3	05/19/22	5481.87	ND	16.21		5465.66
MW-3	11/02/22	5481.87	ND	13.03		5468.84
MW-5	10/25/14	5482.04	ND	12.73		5469.31
MW-5	05/30/15	5482.04	ND	16.50		5465.54
MW-5	11/18/15	5482.04	ND	14.80		5467.24
MW-5	04/18/16	5482.04	ND	19.20		5462.84
MW-5	10/14/16	5482.04	ND	15.78		5466.26
MW-5	06/11/17	5482.04	ND	17.65		5464.39
MW-5	11/13/17	5482.04	ND	14.81		5467.23
MW-5	05/17/18	5482.04	ND	16.95		5465.09
MW-5	10/28/18	5482.04	ND	12.31		5469.73
MW-5	05/22/19	5482.04	ND	16.10		5465.94
MW-5	11/11/19	5482.04	ND	11.58		5470.46
MW-5	05/15/20	5482.04	ND	15.62		5466.42
MW-5	11/11/20	5482.04	ND	11.97		5470.07

TABLE 2 - GROUNDWATER ELEVATION RESULTS

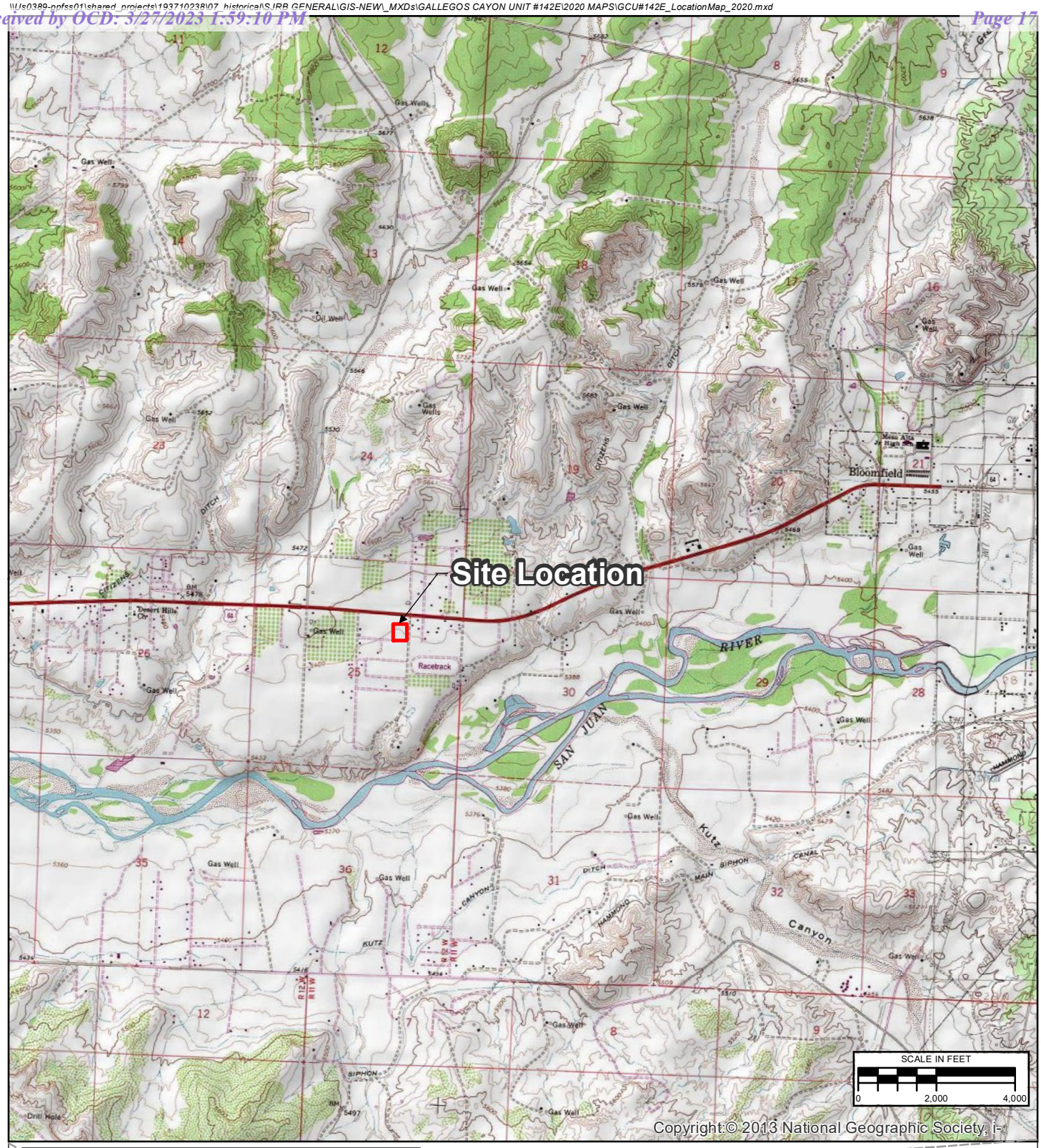
Gallegos Canyon Unit #142E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	05/21/21	5482.04	ND	16.01		5466.03
MW-5	11/12/21	5482.04	ND	12.81		5469.23
MW-5	05/19/22	5482.04	ND	16.46		5465.58
MW-5	11/02/22	5482.04	ND	13.28		5468.76
MW-6	10/25/14	5481.45	ND	12.31		5469.14
MW-6	05/30/15	5481.45	ND	16.01		5465.44
MW-6	11/18/15	5481.45	ND	14.36		5467.09
MW-6	04/18/16	5481.45	ND	18.73		5462.72
MW-6	10/14/16	5481.45	ND	15.35		5466.10
MW-6	06/11/17	5481.45	ND	17.14		5464.31
MW-6	11/13/17	5481.45	ND	14.39		5467.06
MW-6	05/17/18	5481.45	ND	16.37		5465.08
MW-6	10/28/18	5481.45	ND	11.85		5469.60
MW-6	05/22/19	5481.45	ND	15.60		5465.85
MW-6	11/11/19	5481.45	ND	11.21		5470.24
MW-6	05/15/20	5481.45	ND	15.10		5466.35
MW-6	11/11/20	5481.45	ND	11.59		5469.86
MW-6	05/21/21	5481.45	ND	15.55		5465.90
MW-6	11/12/21	5481.45	ND	12.39		5469.06
MW-6	05/19/22	5481.45	ND	15.92		5465.53
MW-6	11/02/22	5481.45	ND	12.56		5468.89
MW-7	10/25/14	5481.80	ND	12.59		5469.21
MW-7	05/30/15	5481.80	ND	16.32		5465.48
MW-7	11/18/15	5481.80	ND	14.67		5467.13
MW-7	04/18/16	5481.80	ND	19.09		5462.71
MW-7	10/14/16	5481.80	ND	15.66		5466.14
MW-7	06/11/17	5481.80	ND	17.44		5464.36
MW-7	11/13/17	5481.80	ND	14.67		5467.13
MW-7	05/17/18	5481.80	ND	16.62		5465.18
MW-7	10/28/18	5481.80	ND	12.01		5469.79
MW-7	05/22/19	5481.80	ND	15.86		5465.94
MW-7	11/11/19	5481.80	ND	11.37		5470.43
MW-7	05/15/20	5481.80	ND	15.35		5466.45
MW-7	11/11/20	5481.80	ND	11.78		5470.02
MW-7	05/21/21	5481.80	ND	15.79		5466.01
MW-7	11/12/21	5481.80	ND	12.63		5469.17
MW-7	05/19/22	5481.80	ND	16.23		5465.57
MW-7	11/02/22	5481.80	ND	13.11		5468.69
TMW-1	01/06/06	5481.43	ND	15.29		5466.14
TMW-1	01/09/06	5481.43	ND	15.27		5466.16
TMW-1	01/18/06	5481.43	ND	15.57		5465.87

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Gallegos Canyon Unit #142E						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
TMW-1	06/23/08	5481.43	ND	15.04		5466.39
TMW-1	12/30/09	5481.43	ND	NA		NA
TMW-1	01/25/10	5481.43	ND	17.23		5464.20
TMW-1	05/25/10	5481.43	17.80	18.70	0.90	5463.41
TMW-1	09/24/10	5481.43	14.10	14.45	0.35	5467.25
TMW-1	11/09/10	5481.43	14.37	14.62	0.25	5467.00
TMW-1	02/01/11	5481.43	17.00	17.45	0.45	5464.32
TMW-1	05/03/11	5481.43	18.55	19.76	1.21	5462.58
TMW-1	09/27/11	5481.43	12.03	12.43	0.40	5469.30
TMW-1	11/16/11	5481.43	12.31	12.44	0.13	5469.09
TMW-1	02/16/12	5481.43	12.03	14.25	2.22	5468.85
TMW-1	05/07/12	5481.43	14.18	14.20	0.02	5467.25
TMW-1	06/07/13	5481.43	ND	13.65		5467.78
TMW-1	09/11/13	5481.43	ND	12.14		5469.29
TMW-1	12/13/13	5481.43	ND	13.90		5467.53
TMW-1	04/03/14	5481.43	17.25	17.36	0.11	5464.16
TMW-1 abandoned on September 8, 2014, and replaced with MW-8						
MW-8	10/25/14	5481.83	ND	12.50		5469.33
MW-8	05/30/15	5481.83	ND	16.28		5465.55
MW-8	11/18/15	5481.83	ND	14.60		5467.23
MW-8	04/18/16	5481.83	ND	19.11		5462.72
MW-8	10/14/16	5481.83	ND	15.61		5466.22
MW-8	06/11/17	5481.83	17.20	18.09	0.89	5464.41
MW-8	11/13/17	5481.83	ND	14.63		5467.20
MW-8	05/17/18	5481.83	ND	16.64		5465.19
MW-8	10/28/18	5481.83	ND	11.97		5469.86
MW-8	05/22/19	5481.83	ND	15.85		5465.98
MW-8	11/11/19	5481.83	ND	11.26		5470.57
MW-8	05/15/20	5481.83	ND	15.33		5466.50
MW-8	11/11/20	5481.83	ND	11.69		5470.14
MW-8	05/21/21	5481.83	ND	15.75		5466.08
MW-8	11/12/21	5481.83	ND	12.55		5469.28
MW-8	05/19/22	5481.83	ND	16.20		5465.63
MW-8	11/02/22	5481.83	ND	13.04		5468.79

Notes:
"ft" = feet
"TOC" = Top of casing
LNAPL = light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = Presence or Absence of 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

FIGURES



N

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

TITLE

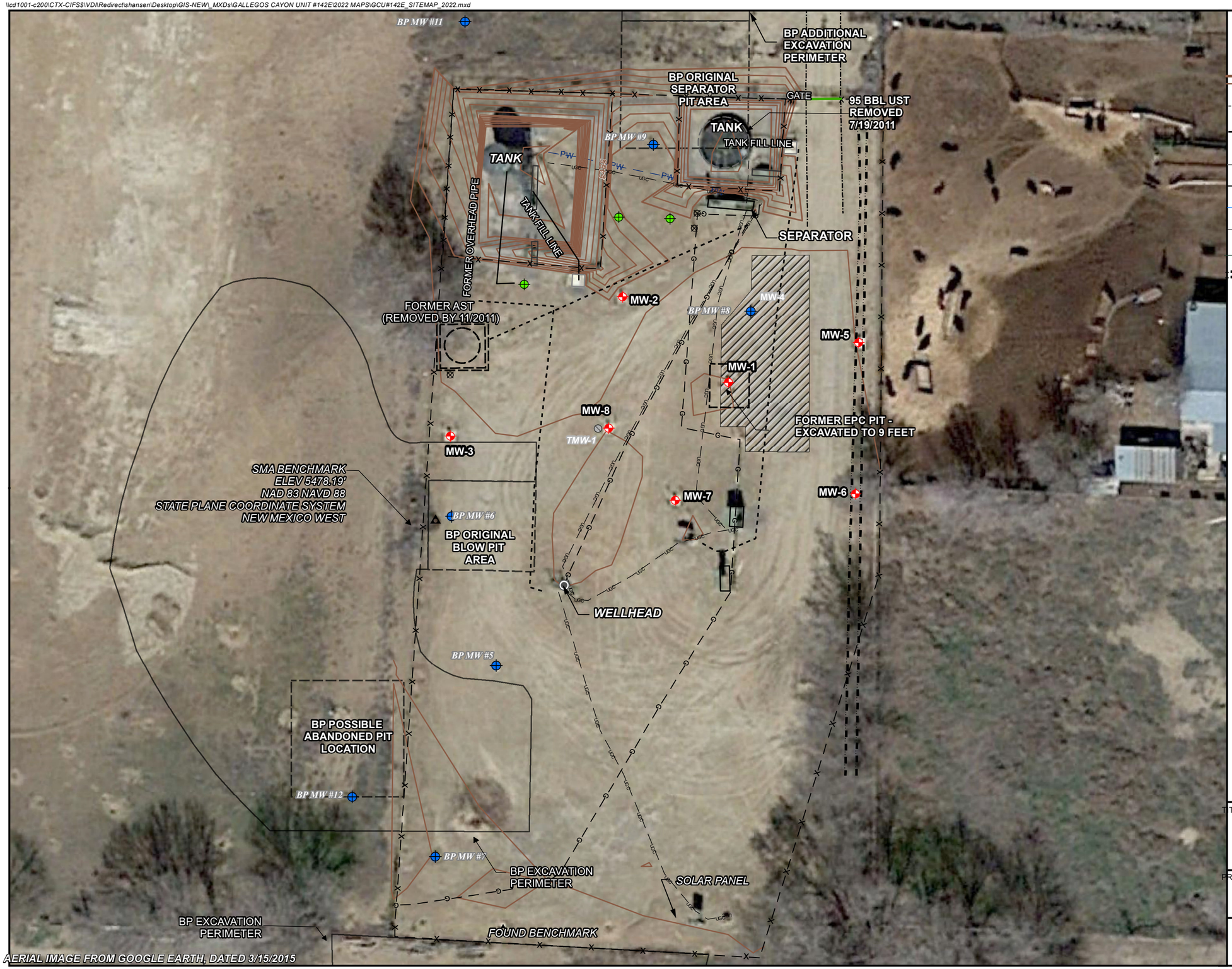
SITE LOCATION

Stantec

PROJECT
GALLEGOS CANYON UNIT COM A #142E
SAN JUAN RIVER BASIN
SAN JUAN COUNTY, NEW MEXICO

FIGURE
1

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CAYON UNIT #142E\2022 MAPS\GCU#142E_SITEMAP_2022.mxd



LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- UNKNOWN LINE (POTENTIALLY ABANDONED)
- LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011
- FENCE
- PW — PRODUCED WATER LINE
- UGC — UNDERGROUND CABLE
- G — UNDERGROUND GAS LINE
- APPROXIMATE FORMER DITCH
- APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- SIMCO MONITORING WELL
- NEW BP WELL (10/29/2018)
- WELLHEAD
- SMA BENCHMARK
- RIG ANCHOR

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-03-06	SLG	SLG	SRV

TITLE:

SITE PLAN

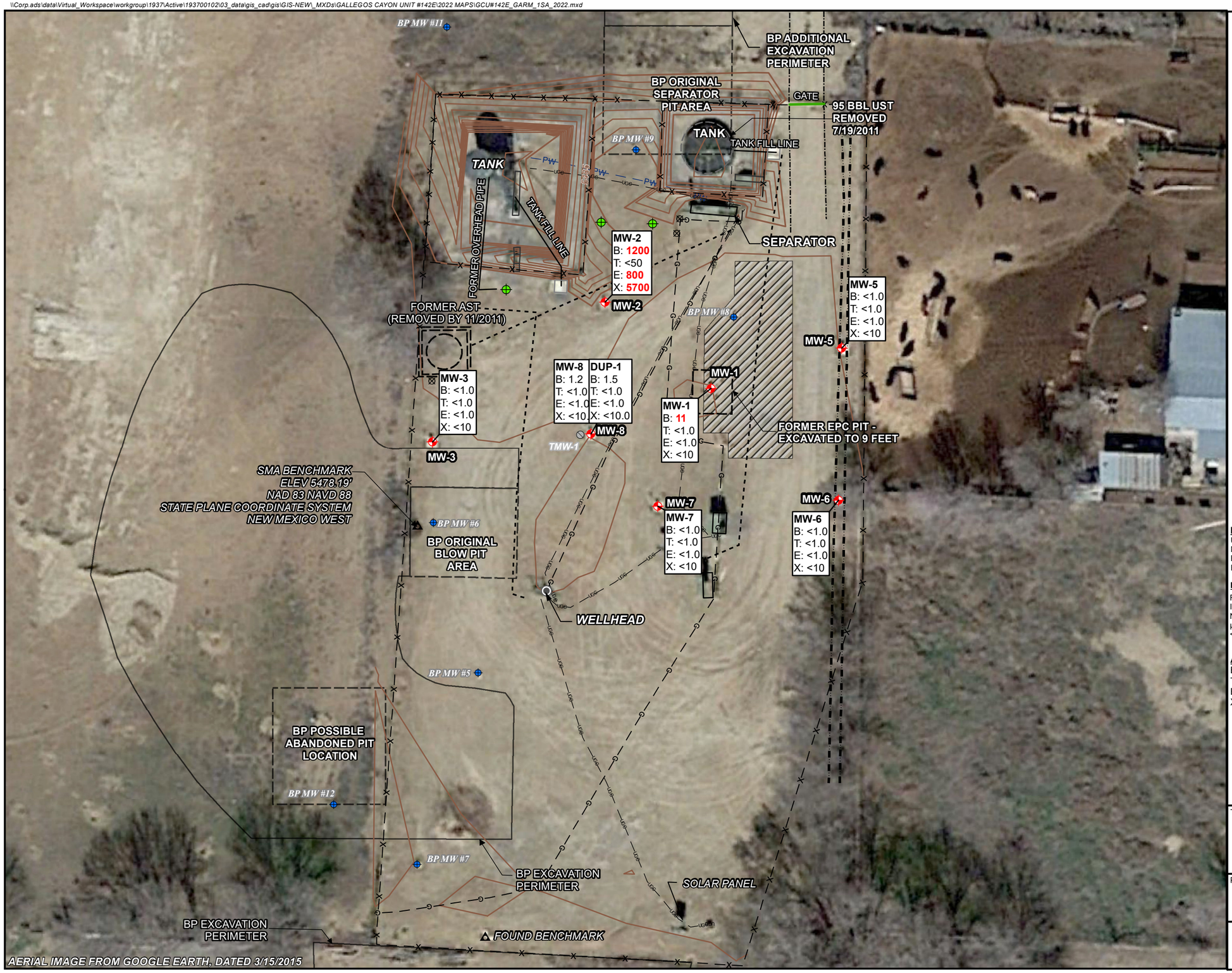
PROJECT:

GALLEGOS CANYON UNIT COM A #142E
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 2

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\GALLEGOS CAYON UNIT #142E\2022 MAPS\GCU#142E_GARM_1SA_2022.mxd



LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- UNKNOWN LINE (POTENTIALLY ABANDONED)
- LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011
- FENCE
- PRODUCED WATER LINE
- UNDERGROUND CABLE
- UNDERGROUND GAS LINE
- APPROXIMATE FORMER DITCH
- APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- SIMCO MONITORING WELL
- NEW BP WELL (10/29/2018)
- WELLHEAD
- SMA BENCHMARK
- RIG ANCHOR

NOTES:
UTILITY LOCATIONS ARE APPROXIMATE.
MW-4 WAS A SOIL BORING ONLY (NO WELL CONSTRUCTED)
BP FORMER PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED FROM 06/24/2011 FIGURE FROM BLAGG ENGINEERING.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:
RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW 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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-06-14	SAH	SAH	SRV

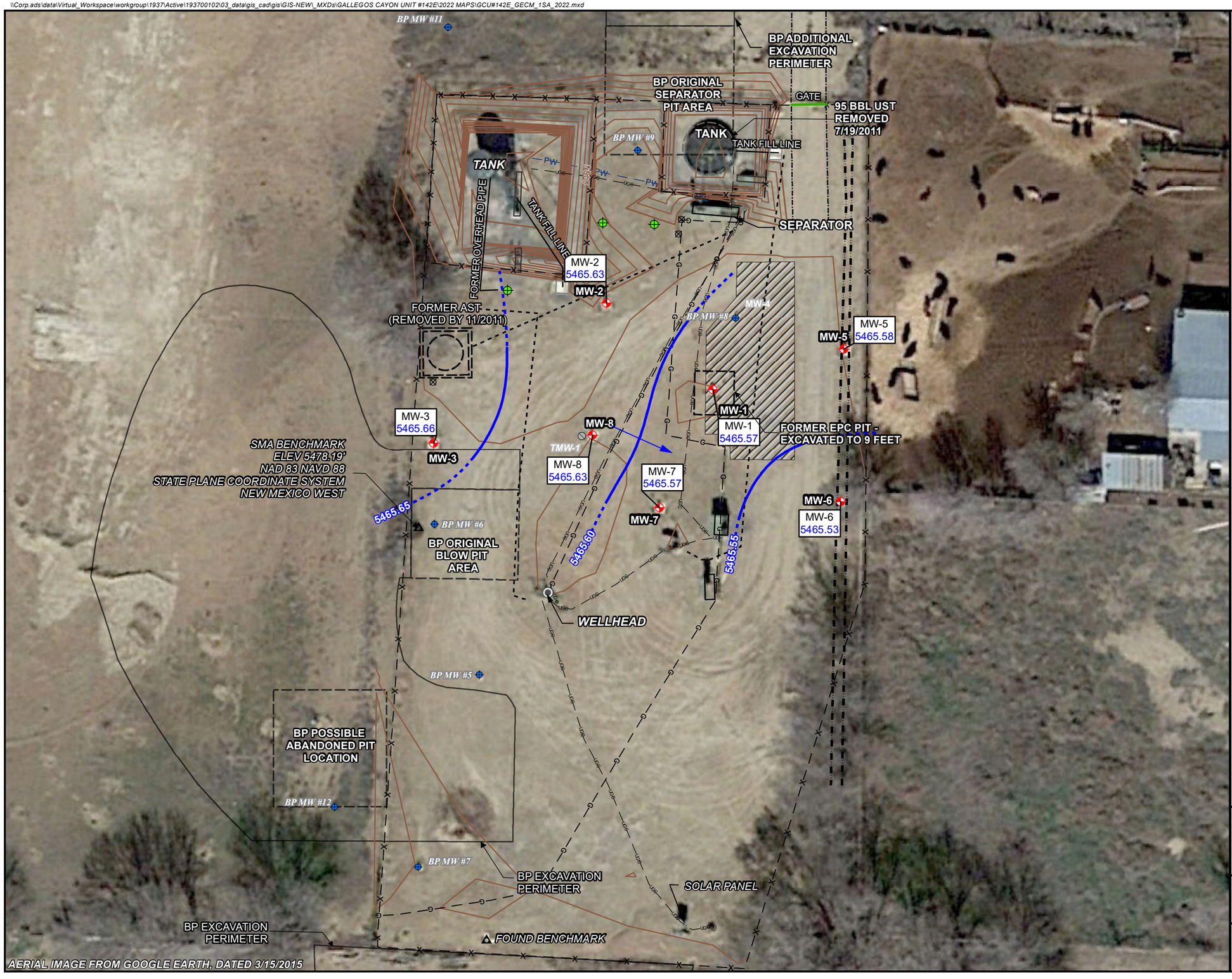
TITLE:
GROUNDWATER ANALYTICAL RESULTS MAY 19, 2022

PROJECT:
GALLEGOS CANYON UNIT COM A #142E
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 3

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\GALLEGOS CANYON UNIT #142E\2022 MAPS\GCU#142E_GECM_1SA_2022.mxd



LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- UNKNOWN LINE (POTENTIALLY ABANDONED)
- LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011
- FENCE
- PW — PRODUCED WATER LINE
- UGC — UNDERGROUND CABLE
- G — UNDERGROUND GAS LINE
- APPROXIMATE FORMER DITCH
- APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- SIMCO MONITORING WELL
- NEW BP WELL (10/29/2018)
- WELLHEAD
- SMA BENCHMARK
- RIG ANCHOR

NOTES:

5465.63 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

5465.55 — WATER LEVEL ELEVATION CONTOUR (DASHED WHERE INFERRED, FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF APPARENT GROUNDWATER FLOW

UTILITY LOCATIONS ARE APPROXIMATE.
MW-4 WAS A SOIL BORING ONLY (NO WELL CONSTRUCTED)
BP FORMER PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED FROM 06/24/2011 FIGURE FROM BLAGG ENGINEERING.

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-06-14	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 19, 2022

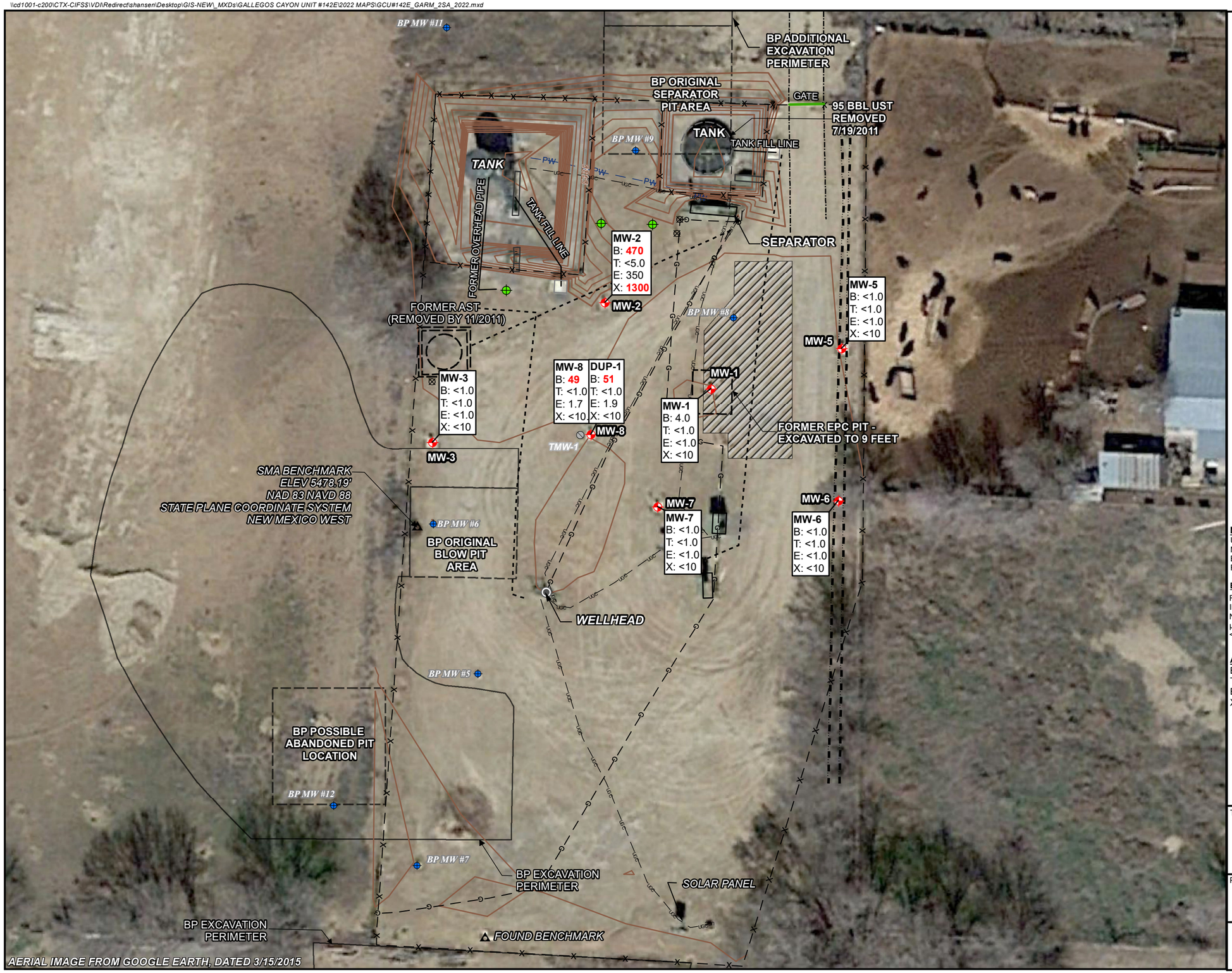
PROJECT:

GALLEGOS CANYON UNIT COM A #142E
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 4

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CAYON UNIT #142E\2022 MAPS\GCU#142E_GARM_2SA_2022.mxd



LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- UNKNOWN LINE (POTENTIALLY ABANDONED)
- LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011
- FENCE
- PW — PRODUCED WATER LINE
- UGC — UNDERGROUND CABLE
- G — UNDERGROUND GAS LINE
- APPROXIMATE FORMER DITCH
- APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- SIMCO MONITORING WELL
- NEW BP WELL (10/29/2018)
- WELLHEAD
- SMA BENCHMARK
- RIG ANCHOR

NOTES:
UTILITY LOCATIONS ARE APPROXIMATE.
MW-4 WAS A SOIL BORING ONLY (NO WELL CONSTRUCTED)
BP FORMER PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED FROM 06/24/2011 FIGURE FROM BLAGG ENGINEERING.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:
RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW 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

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-12-08	SAH	SAH	SRV

TITLE:
GROUNDWATER ANALYTICAL RESULTS NOVEMBER 2, 2022

PROJECT:
GALLEGOS CANYON UNIT COM A #142E
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: **5**

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\GALLEGOS CAYON UNIT #142E\2022 MAPS\GCU#142E_GECM_2SA_2022.mxd

BP MW #11

BP ADDITIONAL EXCAVATION PERIMETER

BP ORIGINAL SEPARATOR PIT AREA

GATE

95 BBL UST REMOVED 7/19/2011

TANK

TANK FILL LINE

BP MW #9

TANK

PW

UGC

FORMER OVERHEAD PIPE

TANK FILL LINE

SEPARATOR

MW-2
5468.87

MW-2

FORMER AST (REMOVED BY 11/2011)

MW-4

BP MW #8

MW-5

MW-5
5468.76

MW-1

MW-1
5468.73

FORMER EPC PIT - EXCAVATED TO 9 FEET

5468.85

MW-8

TMW-1

MW-8
5468.79

SMA BENCHMARK
ELEV 5478.19'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

MW-3

MW-3
5468.84

MW-6

MW-6
5468.89*

MW-7

BP MW #6

5468.80

BP ORIGINAL BLOW PIT AREA

5468.75

5468.70

MW-7
5468.69

WELLHEAD

BP MW #5

BP POSSIBLE ABANDONED PIT LOCATION

BP MW #12

BP MW #7

BP EXCAVATION PERIMETER

SOLAR PANEL

BP EXCAVATION PERIMETER

FOUND BENCHMARK

AERIAL IMAGE FROM GOOGLE EARTH, DATED 3/15/2015

LEGEND:

- 5795 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- UNKNOWN LINE (POTENTIALLY ABANDONED)
- LOCATION OF FORMER 95 BARREL UST REMOVED 7/19/2011
- FENCE
- PW — PRODUCED WATER LINE
- UGC — UNDERGROUND CABLE
- G — UNDERGROUND GAS LINE
- APPROXIMATE FORMER DITCH
- APPROXIMATE EXTENT OF 10/1996 EPNG SOIL EXCAVATION (EXCAVATED TO 15.5 FEET)
- MONITORING WELL
- ABANDONED MONITORING WELL
- SIMCO MONITORING WELL
- NEW BP WELL (10/29/2018)
- WELLHEAD
- SMA BENCHMARK
- RIG ANCHOR

NOTES:

- 5468.73 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- 5468.75 — WATER LEVEL ELEVATION CONTOUR (DASHED WHERE INFERRED, FEET ABOVE MEAN SEA LEVEL)
- DIRECTION OF APPARENT GROUNDWATER FLOW
- * — GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE GROUNDWATER ELEVATION CONTOURS

UTILITY LOCATIONS ARE APPROXIMATE.
MW-4 WAS A SOIL BORING ONLY (NO WELL CONSTRUCTED)
BP FORMER PIT AND EXCAVATION PERIMETER INFORMATION OBTAINED FROM 06/24/2011 FIGURE FROM BLAGG ENGINEERING.

N

SCALE IN FEET
0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-03-06	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 2, 2022

PROJECT:

GALLEGOS CANYON UNIT COM A #142E
SAN JUAN COUNTY, NEW MEXICO

Stantec

Figure No.: 6

APPENDICES

APPENDIX A

From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: FW: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Thursday, May 12, 2022 8:33:41 AM

Hi Nelson -

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	5/21/2022
Fields A#7A	nAUTOfAB000176	5/22/2022
Fogelson 4-1	nAUTOfAB000192	5/22/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	5/19/2022
GCU Com A #142E	nAUTOfAB000219	5/19/2022
James F. Bell #1E	nAUTOfAB000291	5/18/2022
Johnston Fed #4	nAUTOfAB000305	5/20/2022
Johnston Fed #6A	nAUTOfAB000309	5/20/2022
K27 LDO72	nAUTOfAB000316	5/21/2022
Knight #1	nAUTOfAB000324	5/19/2022
Lateral L 40 Line Drip	nAUTOfAB000335	5/18/2022
Miles Fed #1A	nAUTOfAB000391	5/21/2022
Sandoval GC A #1A	nAUTOfAB000635	5/20/2022
Standard Oil Com #1	nAUTOfAB000666	5/21/2022
State Gas Com N #1	nAUTOfAB000668	5/22/2022

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

From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, October 26, 2022 3:13:50 PM

Hi Nelson -

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	11/6/2022
Fields A#7A	nAUTOfAB000176	10/31/2022
Fogelson 4-1	nAUTOfAB000192	10/30/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/3/2022
GCU Com A #142E	nAUTOfAB000219	11/2/2022
James F. Bell #1E	nAUTOfAB000291	11/4/2022
Johnston Fed #4	nAUTOfAB000305	11/5/2022
Johnston Fed #6A	nAUTOfAB000309	11/5/2022
K27 LDO72	nAUTOfAB000316	11/6/2022
Knight #1	nAUTOfAB000324	11/4/2022
Lateral L 40 Line Drip	nAUTOfAB000335	10/30/2022
Sandoval GC A #1A	nAUTOfAB000635	11/5/2022
Standard Oil Com #1	nAUTOfAB000666	11/6/2022
State Gas Com N #1	nAUTOfAB000668	11/1/2022

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Saturday, October 29, 2022.

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., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX B

envirotech

Bill of Lading

MANIFEST # 73058
GENERATOR El Paso
POINT OF ORIGIN Rio Vista Comp Station
TRANSPORTER Envirotech
DATE 05-24-27 JOB # See Below

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	liquid			3. / 3			938	1445	
					14073-0059 (CCLC 0059)		1 Drum	San Juan River Plant		
							1 Drum	Blanco North Flare		
					14073-0060		1 Drum	NM GW Pits (15 sites)		

RESULTS		
315	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Cory Robinson BLM

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

SCANNED

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: **White** - Company Records / Billing **Yellow** - Customer **Pink** - LF Copy

SAN JUAN PRINTING 2021 407-3

envirotech

Bill of Lading

MANIFEST # 76385
GENERATOR El Paso
POINT OF ORIGIN See notes
TRANSPORTER Envirotech
DATE 11-07-22 JOB # 14073-0060

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	BF	Cont Liquid				1	01154	937	0845	Andrew Mass
						1				
									SCANNED	

RESULTS			LANDFARM EMPLOYEE	NOTES
-291	CHLORIDE TEST	1		See Attachment
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	C-138 Pit Sites
	CHLORIDE TEST			
Pass	PAINT FILTER TEST	1		

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records / Billing Yellow - Customer Pink - LF Copy

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 76385

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-7-22 TIME 8:45 Am

CUSTOMER Kinder Morgan

SITE Pit Site

DRIVER A. Musso

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST -291 mg/Kg

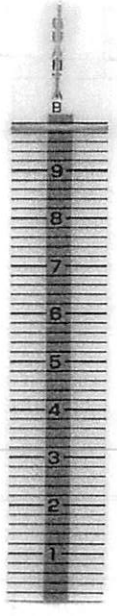
ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 8:47 Time completed _____

PASS YES _____ NO _____

SAMPLER/ANALYST CR

Attach test strip here



5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-inc.com

envirotech

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 01154	Page 1 of

Generator's Name	Generator's Address	Generator's Telephone No.
KINDER MORGAN	1001 LOUISIANA ~~BLVD~~ STREET, ROOM 9561, HOUSTON, TX	~~505~~ 713-420-3475

Origin of Special Waste (Project or Spill Location):
SJRB PIT & PLANT SITES

Transporter #1 Company Name	Address	Telephone No.
ENVIROTECH	5796 US HWY 64, FARMINGTON, NM	505-632-0615
Transporter #2 Company Name	Address	Telephone No.
Destination Facility Name/Site Address	Facility ID (Permit) Number	Telephone No.
ENVIROTECH LANDFARM 2	NM01-0011	505-632-0615

GENERATOR

Type and Proper Name of Special Waste	Container(s) No.	Container(s) Type	Total Quantity	Unit Wt/Vol
WATER AND DRIP	1	L	4	70GAL

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described above by type and proper name of the special waste, and that such waste has been managed, packaged, containerized and labeled in accordance with the requirements of 20.9.8 NMAC (Special Waste Requirements) in addition to any other applicable federal, state or local regulations.

Printed/Typed Name:	Signature:	Date:
Sean R Clary	Sean R Clary	11/7/2022

TRANSPORTER

Transporter 1 Acknowledgement of Receipt of Special Waste		
Printed/Typed Name:	Signature:	Date:
ANDREW MUSSO	ANDREW MUSSO	11/7/2022
Transporter 2 Acknowledgement of Receipt of Special Waste		
Printed/Typed Name:	Signature:	Date:

FACILITY

Discrepancy Indication Space:

Facility Owner or Operator: ***I hereby acknowledge receipt of the special waste as indicated upon this manifest, except as noted above in the Discrepancy Indication Space.***

Printed/Typed Name:	Signature:	Date:
Gary Robinson	Gary Robinson	11-07-22

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:** **Billing code for invoice:**
El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. **Originating Site:**
Johnston Federal #4, Johnston Federal #6A, Sandoval GC A#1A, Canada Mesa #2, K-27 LD072, Standard Oil Com #1, Knight #1, Gallegos Canyon Unit #124E, GCU Com A #142E, Fields A#7A, State Gas Com N #1, Fogelson 4-1, Lat L 40, and James F. Bell #1E.

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit N, Sec. 27, T31N, R09W; Unit F, Sec. 35, T31N, R09W; Unit C, Sec. 35, T30N, R09W; Unit I, Sec. 24, T24N, R06W; Unit E, Sec 5, T25N, R06W; Unit N, Sec. 36, T29N, R09W, Unit A, Sec. 5, T30N, R13W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit E, Sec. 34, T32N, R11W; Unit H, Sec. 16, T31N, R12W; Unit P, Sec. 4, T29N, R11W; Unit H, Sec. 13, T28N, R04W; and Unit P, Sec. 10, T30N, R13W, respectively.

4. **Source and Description of Waste:**
Historic releases occurred on the above-referenced property. As part of environmental investigation activities, monitoring wells will be sampled, and purged liquids will be removed from the Site.
Estimated Volume _____ 1 ___ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd^3 / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
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: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Joseph Wiley, representative for El Paso CGP Company, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. **Transporter: Envirotech, Inc.**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____

APPENDIX C

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-220352-1
Client Project/Site: GCU 142

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

Attn: Steve Varsa

Authorized for release by:
6/8/2022 7:59:19 AM
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@et.eurofinsus.com

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Laboratory Job ID: 400-220352-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Job ID: 400-220352-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-220352-1

Comments
No additional comments.

Receipt
The samples were received on 5/24/2022 9:02 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 3.2º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (400-220352-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or 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 142

Job ID: 400-220352-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-220352-1

No Detections.

Client Sample ID: MW-1 — Lab Sample ID: 400-220352-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-220352-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1200		50		ug/L	50		8260C	Total/NA
Ethylbenzene	800		50		ug/L	50		8260C	Total/NA
Xylenes, Total	5700		500		ug/L	50		8260C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-220352-4

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-220352-5

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-220352-6

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-220352-7

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-220352-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 400-220352-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

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 Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-220352-1	TRIP BLANK	Water	05/19/22 14:15	05/24/22 09:02
400-220352-2	MW-1	Water	05/19/22 15:30	05/24/22 09:02
400-220352-3	MW-2	Water	05/19/22 15:20	05/24/22 09:02
400-220352-4	MW-3	Water	05/19/22 15:10	05/24/22 09:02
400-220352-5	MW-5	Water	05/19/22 15:05	05/24/22 09:02
400-220352-6	MW-6	Water	05/19/22 15:00	05/24/22 09:02
400-220352-7	MW-7	Water	05/19/22 14:50	05/24/22 09:02
400-220352-8	MW-8	Water	05/19/22 14:45	05/24/22 09:02
400-220352-9	DUP-01	Water	05/19/22 15:45	05/24/22 09:02

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: TRIP BLANK

Date Collected: 05/19/22 14:15
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-1

Matrix: Water

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			06/02/22 08:11	1
Toluene	<1.0		1.0		ug/L			06/02/22 08:11	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 08:11	1
Xylenes, Total	<10		10		ug/L			06/02/22 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*06/02/22 08:11*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*06/02/22 08:11*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*06/02/22 08:11*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-1
Date Collected: 05/19/22 15:30
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11**		1.0		ug/L			06/02/22 14:10	1
Toluene	<1.0		1.0		ug/L			06/02/22 14:10	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 14:10	1
Xylenes, Total	<10		10		ug/L			06/02/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*72 - 119*		*06/02/22 14:10*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*06/02/22 14:10*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*06/02/22 14:10*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-2
Date Collected: 05/19/22 15:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-3
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1200**		50		ug/L			06/01/22 20:40	50
Toluene	<50		50		ug/L			06/01/22 20:40	50
Ethylbenzene	**800**		50		ug/L			06/01/22 20:40	50
Xylenes, Total	**5700**		500		ug/L			06/01/22 20:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*72 - 119*		*06/01/22 20:40*	*50*
Dibromofluoromethane	*104*		*75 - 126*		*06/01/22 20:40*	*50*
Toluene-d8 (Surr)	*96*		*64 - 132*		*06/01/22 20:40*	*50*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-3
Date Collected: 05/19/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-4
Matrix: Water

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			06/02/22 14:36	1
Toluene	<1.0		1.0		ug/L			06/02/22 14:36	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 14:36	1
Xylenes, Total	<10		10		ug/L			06/02/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*72 - 119*		*06/02/22 14:36*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*06/02/22 14:36*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*06/02/22 14:36*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-5
Date Collected: 05/19/22 15:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-5
Matrix: Water

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			06/02/22 15:02	1
Toluene	<1.0		1.0		ug/L			06/02/22 15:02	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 15:02	1
Xylenes, Total	<10		10		ug/L			06/02/22 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*72 - 119*		*06/02/22 15:02*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*06/02/22 15:02*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*06/02/22 15:02*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-6
Date Collected: 05/19/22 15:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-6
Matrix: Water

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			06/02/22 15:28	1
Toluene	<1.0		1.0		ug/L			06/02/22 15:28	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 15:28	1
Xylenes, Total	<10		10		ug/L			06/02/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*72 - 119*		*06/02/22 15:28*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*06/02/22 15:28*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*06/02/22 15:28*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-7
Date Collected: 05/19/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-7
Matrix: Water

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			06/02/22 15:54	1
Toluene	<1.0		1.0		ug/L			06/02/22 15:54	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 15:54	1
Xylenes, Total	<10		10		ug/L			06/02/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*72 - 119*		*06/02/22 15:54*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*06/02/22 15:54*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*06/02/22 15:54*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-8
Date Collected: 05/19/22 14:45
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-8
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0		ug/L			06/02/22 16:19	1
Toluene	<1.0		1.0		ug/L			06/02/22 16:19	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 16:19	1
Xylenes, Total	<10		10		ug/L			06/02/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*72 - 119*		*06/02/22 16:19*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*06/02/22 16:19*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*06/02/22 16:19*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: DUP-01
Date Collected: 05/19/22 15:45
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-9
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.5**		1.0		ug/L			06/02/22 16:45	1
Toluene	<1.0		1.0		ug/L			06/02/22 16:45	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 16:45	1
Xylenes, Total	<10		10		ug/L			06/02/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*06/02/22 16:45*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*06/02/22 16:45*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*06/02/22 16:45*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: TRIP BLANK
Date Collected: 05/19/22 14:15
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-1
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	579750	06/02/22 08:11	PP1	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-1
Date Collected: 05/19/22 15:30
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-2
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	579750	06/02/22 14:10	PP1	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-2
Date Collected: 05/19/22 15:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-3
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		50	5 mL	5 mL	579733	06/01/22 20:40	WPD	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-3
Date Collected: 05/19/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-4
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	579750	06/02/22 14:36	PP1	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-5
Date Collected: 05/19/22 15:05
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-5
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	579750	06/02/22 15:02	PP1	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-6
Date Collected: 05/19/22 15:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-6
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	579750	06/02/22 15:28	PP1	TAL PEN
	Instrument ID: CH_TAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Client Sample ID: MW-7
Date Collected: 05/19/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-7
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	579750	06/02/22 15:54	PP1	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-8
Date Collected: 05/19/22 14:45
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-8
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	579750	06/02/22 16:19	PP1	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: DUP-01
Date Collected: 05/19/22 15:45
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220352-9
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	579750	06/02/22 16:45	PP1	TAL PEN
	Instrument ID: CH_TAN									

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

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

GC/MS VOA

Analysis Batch: 579733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220352-3	MW-2	Total/NA	Water	8260C	
MB 400-579733/4	Method Blank	Total/NA	Water	8260C	
LCS 400-579733/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220612-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-220612-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 579750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220352-1	TRIP BLANK	Total/NA	Water	8260C	
400-220352-2	MW-1	Total/NA	Water	8260C	
400-220352-4	MW-3	Total/NA	Water	8260C	
400-220352-5	MW-5	Total/NA	Water	8260C	
400-220352-6	MW-6	Total/NA	Water	8260C	
400-220352-7	MW-7	Total/NA	Water	8260C	
400-220352-8	MW-8	Total/NA	Water	8260C	
400-220352-9	DUP-01	Total/NA	Water	8260C	
MB 400-579750/4	Method Blank	Total/NA	Water	8260C	
LCS 400-579750/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220612-C-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-220612-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

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

Lab Sample ID: MB 400-579733/4
Matrix: Water
Analysis Batch: 579733

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			06/01/22 19:48	1
Toluene	<1.0		1.0		ug/L			06/01/22 19:48	1
Ethylbenzene	<1.0		1.0		ug/L			06/01/22 19:48	1
Xylenes, Total	<10		10		ug/L			06/01/22 19:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*72 - 119*		*06/01/22 19:48*	*1*
Dibromofluoromethane	*109*		*75 - 126*		*06/01/22 19:48*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*06/01/22 19:48*	*1*

Lab Sample ID: LCS 400-579733/1002
Matrix: Water
Analysis Batch: 579733

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	58.8		ug/L		118	70 - 130		
Toluene			50.0	52.5		ug/L		105	70 - 130		
Ethylbenzene			50.0	52.0		ug/L		104	70 - 130		
Xylenes, Total			100	103		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*72 - 119*
Dibromofluoromethane	*106*		*75 - 126*
Toluene-d8 (Surr)	*94*		*64 - 132*

Lab Sample ID: 400-220612-A-2 MS
Matrix: Water
Analysis Batch: 579733

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	65.1		ug/L		130	56 - 142		
Toluene	<1.0		50.0	57.1		ug/L		114	65 - 130		
Ethylbenzene	<1.0		50.0	56.3		ug/L		113	58 - 131		
Xylenes, Total	<10		100	111		ug/L		111	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*72 - 119*
Dibromofluoromethane	*108*		*75 - 126*
Toluene-d8 (Surr)	*94*		*64 - 132*

Lab Sample ID: 400-220612-A-2 MSD
Matrix: Water
Analysis Batch: 579733

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
Benzene	<1.0		50.0	60.5		ug/L		121	56 - 142	7	30
Toluene	<1.0		50.0	50.9		ug/L		102	65 - 130	12	30
Ethylbenzene	<1.0		50.0	47.0		ug/L		94	58 - 131	18	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

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

Lab Sample ID: 400-220612-A-2 MSD
Matrix: Water
Analysis Batch: 579733

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	92.5		ug/L		93	59 - 130	18	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*113*		*72 - 119*
Dibromofluoromethane	*108*		*75 - 126*
Toluene-d8 (Surr)	*94*		*64 - 132*

Lab Sample ID: MB 400-579750/4
Matrix: Water
Analysis Batch: 579750

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			06/02/22 07:45	1
Toluene	<1.0		1.0		ug/L			06/02/22 07:45	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 07:45	1
Xylenes, Total	<10		10		ug/L			06/02/22 07:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*06/02/22 07:45*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*06/02/22 07:45*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*06/02/22 07:45*	*1*

Lab Sample ID: LCS 400-579750/1002
Matrix: Water
Analysis Batch: 579750

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	49.4		ug/L		99	70 - 130		
Toluene			50.0	46.5		ug/L		93	70 - 130		
Ethylbenzene			50.0	47.0		ug/L		94	70 - 130		
Xylenes, Total			100	93.7		ug/L		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*72 - 119*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*95*		*64 - 132*

Lab Sample ID: 400-220612-C-2 MS
Matrix: Water
Analysis Batch: 579750

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	63.1		ug/L		126	56 - 142		
Toluene	<1.0		50.0	61.9		ug/L		124	65 - 130		
Ethylbenzene	<1.0		50.0	63.7		ug/L		127	58 - 131		
Xylenes, Total	<10		100	126		ug/L		126	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

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

Lab Sample ID: 400-220612-C-2 MS
Matrix: Water
Analysis Batch: 579750

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	*110*		*72 - 119*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: 400-220612-C-2 MSD
Matrix: Water
Analysis Batch: 579750

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
Benzene	<1.0		50.0	58.0		ug/L		116	56 - 142	8	30
Toluene	<1.0		50.0	57.0		ug/L		114	65 - 130	8	30
Ethylbenzene	<1.0		50.0	57.9		ug/L		116	58 - 131	10	30
Xylenes, Total	<10		100	114		ug/L		114	59 - 130	10	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	*112*		*72 - 119*
Dibromofluoromethane	*99*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

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

Chain of Custody Record

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Client Information	Sampler: Sarah Gardner / Sean Clary	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-111384-39042.3
Client Contact: Steve Varsa	Phone: (308) 291 2239	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: ~~Page 3 of 3~~ Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): See ARF			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040014			
Email: steve.varsa@stantec.com	WO #: ERG-STN-05-06-22-SAH-17			
Project Name: ~~San Juan River Plant RWIP~~ GCU 142	Project #: 40012762			
Site: GCU 142	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
Trip Blank	5/19/2022	1415	G	Water			2	2	
MW-1	5/19/2022	1530	G	Water			3	3	
MW-2	5/19/2022	1520	G	Water			3	3	
MW-3	5/19/2022	1510	G	Water			3	3	
MW-5	5/19/2022	1505	G	Water			3	3	
MW-6	5/19/2022	1500	G	Water			3	3	
MW-7	5/19/2022	1450	G	Water			3	3	
MW-8	5/19/2022	1445	G	Water			3	3	
DUP-01	5/19/2022	1545	G	Water			3	3	

400-220352 COC

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/23/2022 1215	Company: Stantec	Received by: MD	Date/Time: 5/24/22 0902	Company: EETS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2c IR10

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220352-1

Login Number: 220352 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	3.2°C IR10
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: GCU 142

Job ID: 400-220352-1

Laboratory: Eurofins 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
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
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
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
West Virginia DEP	State	136	03-31-23

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ANALYTICAL REPORT

PREPARED FOR

Attn: Steve Varsa
Stantec Consulting Services Inc
11311 Aurora Avenue
Des Moines Iowa 50322-7904

Generated 11/18/2022 2:36:36 PM

JOB DESCRIPTION

Gallegos Canyon Unit #142E.00

JOB NUMBER

400-228409-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

my EOL

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Laboratory Job ID: 400-228409-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Job ID: 400-228409-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228409-1

Comments
No additional comments.

Receipt
The samples were received on 11/4/2022 8:59 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 5.2º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-2 (400-228409-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or 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 #142E.00

Job ID: 400-228409-1

Client Sample ID: TB-01 — Lab Sample ID: 400-228409-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-228409-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	51		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.9		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 400-228409-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	4.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-228409-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	470		5.0		ug/L	5		8260C	Total/NA
Ethylbenzene	350		5.0		ug/L	5		8260C	Total/NA
Xylenes, Total	1300		50		ug/L	5		8260C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 400-228409-5

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-228409-6

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-228409-7

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-228409-8

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-228409-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	49		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.7		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228409-1	TB-01	Water	11/02/22 18:00	11/04/22 08:59
400-228409-2	DUP-01	Water	11/02/22 12:00	11/04/22 08:59
400-228409-3	MW-1	Water	11/02/22 18:11	11/04/22 08:59
400-228409-4	MW-2	Water	11/02/22 18:17	11/04/22 08:59
400-228409-5	MW-3	Water	11/02/22 18:24	11/04/22 08:59
400-228409-6	MW-5	Water	11/02/22 18:31	11/04/22 08:59
400-228409-7	MW-6	Water	11/02/22 18:37	11/04/22 08:59
400-228409-8	MW-7	Water	11/02/22 18:42	11/04/22 08:59
400-228409-9	MW-8	Water	11/02/22 18:06	11/04/22 08:59

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: TB-01

Date Collected: 11/02/22 18:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/15/22 15:11*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/15/22 15:11*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/15/22 15:11*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: DUP-01

Date Collected: 11/02/22 12:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**51**		1.0		ug/L			11/15/22 16:04	1
Toluene	<1.0		1.0		ug/L			11/15/22 16:04	1
Ethylbenzene	**1.9**		1.0		ug/L			11/15/22 16:04	1
Xylenes, Total	<10		10		ug/L			11/15/22 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/15/22 16:04*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/15/22 16:04*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/15/22 16:04*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-1

Date Collected: 11/02/22 18:11
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.0**		1.0		ug/L			11/15/22 16:30	1
Toluene	<1.0		1.0		ug/L			11/15/22 16:30	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 16:30	1
Xylenes, Total	<10		10		ug/L			11/15/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/15/22 16:30*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/15/22 16:30*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/15/22 16:30*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-2

Date Collected: 11/02/22 18:17
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**470**		5.0		ug/L			11/15/22 20:00	5
Toluene	<5.0		5.0		ug/L			11/15/22 20:00	5
Ethylbenzene	**350**		5.0		ug/L			11/15/22 20:00	5
Xylenes, Total	**1300**		50		ug/L			11/15/22 20:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/15/22 20:00*	*5*
Dibromofluoromethane	*87*		*75 - 126*		*11/15/22 20:00*	*5*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/15/22 20:00*	*5*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-3

Date Collected: 11/02/22 18:24
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-5

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/15/22 16:56	1
Toluene	<1.0		1.0		ug/L			11/15/22 16:56	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 16:56	1
Xylenes, Total	<10		10		ug/L			11/15/22 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/15/22 16:56*	*1*
Dibromofluoromethane	*93*		*75 - 126*		*11/15/22 16:56*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/15/22 16:56*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-5

Date Collected: 11/02/22 18:31
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-6

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/15/22 17:22	1
Toluene	<1.0		1.0		ug/L			11/15/22 17:22	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 17:22	1
Xylenes, Total	<10		10		ug/L			11/15/22 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/15/22 17:22*	*1*
Dibromofluoromethane	*91*		*75 - 126*		*11/15/22 17:22*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/15/22 17:22*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-6

Date Collected: 11/02/22 18:37
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/15/22 17:49	1
Toluene	<1.0		1.0		ug/L			11/15/22 17:49	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 17:49	1
Xylenes, Total	<10		10		ug/L			11/15/22 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/15/22 17:49*	*1*
Dibromofluoromethane	*93*		*75 - 126*		*11/15/22 17:49*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/15/22 17:49*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-7

Date Collected: 11/02/22 18:42
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-8

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/15/22 18:15	1
Toluene	<1.0		1.0		ug/L			11/15/22 18:15	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 18:15	1
Xylenes, Total	<10		10		ug/L			11/15/22 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/15/22 18:15*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/15/22 18:15*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/15/22 18:15*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-8

Date Collected: 11/02/22 18:06
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**49**		1.0		ug/L			11/15/22 18:41	1
Toluene	<1.0		1.0		ug/L			11/15/22 18:41	1
Ethylbenzene	**1.7**		1.0		ug/L			11/15/22 18:41	1
Xylenes, Total	<10		10		ug/L			11/15/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/15/22 18:41*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/15/22 18:41*	*1*
Toluene-d8 (Surr)	*92*		*64 - 132*		*11/15/22 18:41*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: TB-01
Date Collected: 11/02/22 18:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-1
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	600734	11/15/22 15:11	JE	EET PEN
	Instrument ID: Einstein									

Client Sample ID: DUP-01
Date Collected: 11/02/22 12:00
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-2
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	600734	11/15/22 16:04	JE	EET PEN
	Instrument ID: Einstein									

Client Sample ID: MW-1
Date Collected: 11/02/22 18:11
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-3
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	600734	11/15/22 16:30	JE	EET PEN
	Instrument ID: Einstein									

Client Sample ID: MW-2
Date Collected: 11/02/22 18:17
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-4
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		5	5 mL	5 mL	600734	11/15/22 20:00	JE	EET PEN
	Instrument ID: Einstein									

Client Sample ID: MW-3
Date Collected: 11/02/22 18:24
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-5
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	600734	11/15/22 16:56	JE	EET PEN
	Instrument ID: Einstein									

Client Sample ID: MW-5
Date Collected: 11/02/22 18:31
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-6
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	600734	11/15/22 17:22	JE	EET PEN
	Instrument ID: Einstein									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

Client Sample ID: MW-6
Date Collected: 11/02/22 18:37
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-7
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	600734	11/15/22 17:49	JE	EET PEN
	Instrument ID: Einstein									

Client Sample ID: MW-7
Date Collected: 11/02/22 18:42
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-8
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	600734	11/15/22 18:15	JE	EET PEN
	Instrument ID: Einstein									

Client Sample ID: MW-8
Date Collected: 11/02/22 18:06
Date Received: 11/04/22 08:59

Lab Sample ID: 400-228409-9
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	600734	11/15/22 18:41	JE	EET PEN
	Instrument ID: Einstein									

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

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

GC/MS VOA

Analysis Batch: 600734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228409-1	TB-01	Total/NA	Water	8260C	
400-228409-2	DUP-01	Total/NA	Water	8260C	
400-228409-3	MW-1	Total/NA	Water	8260C	
400-228409-4	MW-2	Total/NA	Water	8260C	
400-228409-5	MW-3	Total/NA	Water	8260C	
400-228409-6	MW-5	Total/NA	Water	8260C	
400-228409-7	MW-6	Total/NA	Water	8260C	
400-228409-8	MW-7	Total/NA	Water	8260C	
400-228409-9	MW-8	Total/NA	Water	8260C	
MB 400-600734/4	Method Blank	Total/NA	Water	8260C	
LCS 400-600734/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228394-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-228394-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

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

Lab Sample ID: MB 400-600734/4
Matrix: Water
Analysis Batch: 600734

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			11/15/22 11:58	1
Toluene	<1.0		1.0		ug/L			11/15/22 11:58	1
Ethylbenzene	<1.0		1.0		ug/L			11/15/22 11:58	1
Xylenes, Total	<10		10		ug/L			11/15/22 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/15/22 11:58*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/15/22 11:58*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/15/22 11:58*	*1*

Lab Sample ID: LCS 400-600734/1002
Matrix: Water
Analysis Batch: 600734

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	51.4		ug/L		103	70 - 130		
Toluene			50.0	52.8		ug/L		106	70 - 130		
Ethylbenzene			50.0	56.3		ug/L		113	70 - 130		
Xylenes, Total			100	111		ug/L		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*118*		*72 - 119*
Dibromofluoromethane	*84*		*75 - 126*
Toluene-d8 (Surr)	*105*		*64 - 132*

Lab Sample ID: 400-228394-A-2 MS
Matrix: Water
Analysis Batch: 600734

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	50.8		ug/L		102	56 - 142		
Toluene	<1.0		50.0	52.2		ug/L		104	65 - 130		
Ethylbenzene	<1.0		50.0	53.0		ug/L		106	58 - 131		
Xylenes, Total	<10		100	103		ug/L		103	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*72 - 119*
Dibromofluoromethane	*86*		*75 - 126*
Toluene-d8 (Surr)	*105*		*64 - 132*

Lab Sample ID: 400-228394-A-2 MSD
Matrix: Water
Analysis Batch: 600734

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
Benzene	<1.0		50.0	51.0		ug/L		102	56 - 142	0	30
Toluene	<1.0		50.0	52.5		ug/L		105	65 - 130	1	30
Ethylbenzene	<1.0		50.0	54.2		ug/L		108	58 - 131	2	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Gallegos Canyon Unit #142E.00

Job ID: 400-228409-1

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

Lab Sample ID: 400-228394-A-2 MSD
Matrix: Water
Analysis Batch: 600734

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	105		ug/L		105	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*72 - 119*
Dibromofluoromethane	*86*		*75 - 126*
Toluene-d8 (Surr)	*105*		*64 - 132*

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

Chain of Custody Record

eurofins

Client Information	Sampler: SRL	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114520-37673.1
Client Contact: Steve Varsa	Phone: 918 980 0281	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040033			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH-05			
Project Name: GCU Com A #142E.00 SemiAnnual	Project #: 40005479			
Site: GCU 142 STN-05	SSOW#:			

Analysis Requested

400-228409 COC

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TB-01	11/2/2022	1800	G	Water			2	2	Trip Blank
DUP-01	11/2/2022	—	G	Water			3	3	
MW-1	11/2/2022	1811	G	Water			3	3	
MW-2	11/2/2022	1817	G	Water			3	3	
MW-3	11/2/2022	1824	G	Water			3	3	
MW-5	11/2/2022	1831	G	Water			3	3	
MW-6	11/2/2022	1837	G	Water			3	3	
MW-7	11/2/2022	1842	G	Water			3	3	
MW-8	11/2/2022	1806	G	Water			3	3	

SAH

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/3/22 13:00	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Date/Time:	Company	Received by:	Date/Time: 11.4.22 08:59	Company

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228409-1

Login Number: 228409 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Roberts, Alexis J

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	5.2°C IR10
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-228409-1
Project/Site: Gallegos Canyon Unit #142E.00

Laboratory: Eurofins 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	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

Eurofins Pensacola

Job Notes

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. Eurofins Environment Testing Southeast LLC, Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
11/18/2022 2:36:36 PM

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

CONDITIONS

Action 201125

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 201125
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	2022 ANNUAL GROUNDWATER REPORT Gallegos Canyon Unit #142E Incident Number: nAUTOfAB000219 has been accepted as part of the record.	5/3/2024