2022 ANNUAL GROUNDWATER REPORT

K-27 Line Drip
Incident Number: nAUTOfAB000316
Meter Code: LD072
T25N, R6W, Sec4, Unit E

REVIEWED
By Nelson Velez at 10:33 am, May 22, 2023

Review of 2022 Annual Groundwater Report: **Content satisfactory**

1. Proceed with Planned Future Activities as stated in this report.
2. Submit next annual groundwater monitoring report no later than April 1, 2024.

SITE DETAILS

Site Location: Latitude: 36.430553 N, Longitude: -107.480164 W
Land Type: Federal
Operator: Enterprise (Pipeline)

SITE BACKGROUND

Environmental Remediation activities at K-27 Line Drip (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. The Site is crossed by a pipeline operated by Enterprise.

The Site is located on Federal land. An initial site assessment was completed in July 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in August of 1994. Monitoring wells were installed in 1995 (MW-1), 2000 (MW-2 and MW-3), 2006 (TMW-4), 2016 (MW-2R, MW-3R, MW-5, MW-6, MW-7, and MW-8), and 2017 (MW-9 and MW-10); one test well was installed in 2018 (TW-1). TMW-4 was later re-designated MW-4. Monitoring wells MW-12 through MW-14 were installed in 2022. Soil boring SB-11 was also advanced in 2022. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells, soil borings, and current and historical site features is provided as Figure 2. Historically, light non-aqueous phase liquid (LNAPL) has been periodically encountered and recovered at the Site. Mobile dual-phase extraction (MDPE) events to evaluate enhancement of LNAPL recovery were conducted in 2018. Quarterly LNAPL recovery began in the second quarter of 2020 and has continued through 2022. Currently, groundwater sampling is conducted on a semi-annual basis.

MONITORING WELL INSTALLATION ACTIVITIES

The planned locations of monitoring wells MW-11 through MW-14 were staked for permitting and utility locating purposes prior to completing public 811 utility locating activities. The installation of MW-12, MW-13, MW-14 and advancement of SB-11 (not completed as MW-11 due to auger refusal) were completed in accordance with the September 28, 2022 *Additional Monitoring Well Installation Work Plan* (September 2022 Work Plan) subsequently approved by the NMOCD. The NMOCD was notified of the start of drilling activities on September 28, 2022 (Appendix A).

Drilling activities were conducted in October 2022. The installation of MW-12, MW-13, and MW-14 served to further characterize the extent of the dissolved-phase hydrocarbons at the Site. Ground surface and top of casing elevations of the new monitoring wells were subsequently surveyed to tie-in to the existing monitoring well network. Borehole logs and well construction diagrams, and associated New Mexico Office of the State Engineer (NMOSE) forms are provided in Appendix B.

During advancement of soil borings, two soil samples at SB-11, one soil sample at MW-12, one soil sample at MW-13, and one soil sample at MW-14 were collected from above the field-interpreted water

table. Samples wereplaced in 4-ounce jars stored in an ice-filled cooler and shipped under standard chain-of-custody protocols to the Eurofins Environment Testing Southeast, LLC, laboratory in Pensacola, Florida (Eurofins). The soil samples were analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method SW846 8021B, Total Petroleum Hydrocarbons (TPH), gasoline range organics, diesel range organics, and motor oil range organics using EPA Method 8015B; and chloride by EPA Method 325.2.

Following advancement, soil boring SB-11 was plugged and abandoned in accordance with NMOSE requirements. A copy of the NMOSE abandonment form for the borehole is included in Appendix C.

The new monitoring wells were constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. Monitoring wells MW-12, MW-13, and MW-14 were each installed with a 20 foot well screen at depths that bisected the field-observed or expected water table. A 3-foot seal of bentonite chips was placed above the sand pack and hydrated, and the remaining annular space was filled with bentonite grout. The three monitoring wells were completed as stick-up wells, each with a locking protective casing and a concrete surface completion.

Monitoring well development was performed at MW-12, MW-13, and MW-14 using a down-hole pump until visibly clear groundwater was observed. Development and decontamination water generated in October 2022 during drilling and well installation was containerized and transported to Envirotech, Inc. (Envirotech) located south of Bloomfield, New Mexico, for disposal. Copies of the wastewater disposal documentation are included as Appendix D. Soil cuttings were placed in steel soil boxes and staged on site pending removal and disposal at Envirotech. Envirotech's soil disposal documentation is contained in Appendix E.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via email to NMOCD on May 12, 2022, and October 26, 2022, prior to initiating groundwater sampling activities at the Site. Copies of the 2022 NMOCD notifications are provided in Appendix A. On May 22 and November 6, 2022, fluid levels were gauged at TW-1, MW-1, MW-2R, MW-3R, and MW-4 through MW-10. Monitoring wells MW-12, MW-13, and MW-14 were also gauged during the November event.

Groundwater samples were collected from MW-1, MW-3R, MW-4, MW-5, MW-7, MW-8, and MW-10 in May 2022. LNAPL was detected at MW-2R, MW-6, and MW-9 in May 2022; therefore, groundwater samples were not collected at these locations during the May 2022 event. Groundwater samples were collected from MW-1, MW-3R, MW-6, MW-7, MW-8, MW-10, MW-12, MW-13, and MW-14 in November 2022. In November 2022, LNAPL was detected at MW-2R and MW-9; therefore, groundwater samples were not collected at these locations during the November 2022 event. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event, using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the bottom of the well screen.

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

Excess sample water was placed in a waste container and transported to Envirotech for disposal. Waste disposal documentation is included as Appendix D.

LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, quarterly LNAPL recovery activities were initiated in the second calendar quarter of 2020 and continued recovery events performed in March, May, August, and November 2022. Documentation of NMOCD notification of site LNAPL recovery activities in 2022 is provided in Appendix A. LNAPL was observed in monitoring wells MW-2R and MW-9 during the four quarterly events in 2022. LNAPL was also observed in MW-6 in March, May, and August, MW-8 in March, and in MW-1 in August of 2022.

The LNAPL recovery data is summarized on Table 1. LNAPL was recovered by hand-bailing. During the LNAPL recovery event in March 2022, recovered LNAPL was disposed of at Basin Disposal, Inc. in Bloomfield, New Mexico (Appendix D). Recovered LNAPL in May, August, and November 2022 was transported for disposal at Envirotech (Appendix D).

SUMMARY TABLES

Historic groundwater analytical results and well gauging data are summarized in Tables 2 and 3, respectively. LNAPL recovery data is summarized on Table 1. Soil Analytical results are summarized in Table 4.

SITE MAPS

Groundwater analytical data maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2022 groundwater sampling and gauging events. Figure 7 summarizes soil sample analytical results.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix F, and the soil analytical lab report is included as Appendix G.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the northeast during 2022 (see Figures 4 and 6).

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- LNAPL was observed in MW-2R and MW-9 during both the May and November sampling events and also in MW-6 during the May sampling event; therefore, no groundwater samples were collected at these locations during those events.

- The groundwater sample collected from MW-1 in May and November 2022 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Concentrations of benzene were either below the NMWQCC standard or not detected in the remaining Site monitoring wells sampled in 2022.

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

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

- The groundwater sample collected from MW-6 in November 2022 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Concentrations of total xylenes were either below the NMWQCC standard or were not detected in the remaining site monitoring wells sampled in 2022.

- A field duplicate was collected from monitoring well MW-7 in May and November 2022. No significant differences were noted between concentrations in the primary and duplicate samples for both groundwater sampling events.

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

SOIL RESULTS

- Soil samples were collected from soil boring SB-11 and from the soil borings advanced for installation of monitoring wells MW-12, MW-13, and MW-14. Results are summarized in Table 4 and depicted graphically in Figure 7.

- Concentrations of benzene were not detected in soil samples collected from SB-11, MW-12, MW-13, and MW-14.

- Concentrations of total BTEX were not detected in soil samples collected from SB-11, MW-12, MW-13, and MW-14.

- Concentrations of TPH were not detected in soil samples collected from SB-11, MW-12, MW-13, and MW-14.

- Concentrations of chloride were either less than the applicable NMOCD soil closure criteria (600 mg/kg) or not detected in soil samples collected from SB-11, MW-12, MW-13, and MW-14.

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PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis. Groundwater samples will be collected from key monitoring wells not containing LNAPL on a semi-annual basis and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. The next site-wide sampling event is scheduled to be conducted in the second calendar quarter of 2023.

Pursuant to EPCGP's January 5, 2021, letter, manual recovery of LNAPL will continue on a quarterly basis from monitoring wells where measurable LNAPL is encountered. A work plan for enhanced LNAPL removal will be prepared under separate cover and implemented pending Bureau of Land Management (BLM) permitting.

The activities conducted in 2023 and their results will be summarized in the 2023 Annual Report, to be submitted by April 1, 2024.

TABLES

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

K-27 Line Drip						
Date	Depth to LNAPL (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	LNAPL Recovered (gal)	Water Recovered (gal)	Recovery Type
Well ID - MW-1						
11/12/2020	39.47	39.49	0.02	<0.01	0.02	manual
8/23/2021	39.89	39.89	<0.01	<0.01	0.37	manual
11/11/2021	39.49	39.51	0.02	<0.01	0.39	manual
8/2/2022	39.15	39.16	0.01	0.00	0.00	manual
			Total:	<0.01	0.78	
Well ID - MW-2R						
10/15/2016	37.62	37.97	0.35	0.06	<0.01	manual
6/7/2017	36.53	36.94	0.41	0.07	<0.01	manual
7/26/2017	32.24	32.81	0.57	2.2	348	Mobile DPE*
11/14/2017	36.96	37.76	0.8	Trace	<0.01	manual
5/15/2018	36.48	36.86	0.38	<0.01	<0.01	manual
10/21/2018	37.64	38.85	1.21	0.1	<0.01	manual
5/21/2019	36.70	37.35	0.65	0.13	0.32	manual
11/10/2019	37.65	38.82	1.17	0.82	0.29	manual
5/11/2020	37.26	38.24	0.98	0.84	0.47	manual
8/19/2020	38.24	39.75	1.51	1.44	0.86	manual
11/12/2020	38.62	38.69	0.07	<0.01	0.06	manual
3/18/2021	37.00	38.00	1.00	0.59	0.57	manual
5/19/2021	37.92	39.03	1.11	0.48	0.07	manual
8/23/2021	38.92	39.80	0.88	0.38	1.23	manual
11/11/2021	38.67	38.78	0.11	0.05	0.48	manual
3/21/2022	37.81	38.69	0.88	0.46	0.21	manual
5/22/2022	37.93	38.94	1.01	0.65	0.21	manual
8/2/2022	38.35	38.70	0.35	0.18	0.20	manual
11/6/2022	37.54	37.85	0.31	0.16	0.63	manual
			Total:	8.6	354	
Well ID - MW-6						
10/21/2018	40.40	40.49	0.09	<0.01	0.10	manual
11/12/2020	41.04	41.09	0.05	<0.01	<0.01	manual
8/23/2021	41.29	41.93	0.64	0.13	0.43	manual
11/11/2021	41.02	41.39	0.37	0.14	0.13	manual
3/21/2022	40.43	40.58	0.15	0.02	0.22	manual
5/22/2022	40.54	40.80	0.26	0.01	0.06	manual
8/2/2022	40.98	41.12	0.14	0.01	0.04	manual
			Total:	0.31	0.98	
Well ID - MW-7						
5/19/2021	38.83	39.05	0.22	0.01	0.07	manual
8/23/2021	39.66	40.10	0.44	0.08	0.48	manual
			Total:	0.09	0.55	

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

K-27 Line Drip						
Well ID - MW-8						
10/27/2018	37.15	37.57	0.42	0.05	<0.01	manual
11/12/2020	37.84	38.04	0.20	0.26	0.03	manual
3/18/2021	37.58	37.60	0.02	<0.01	0.24	manual
5/19/2021	37.64	37.72	0.08	<0.01	0.05	manual
8/23/2021	38.27	39.30	1.03	0.30	0.82	manual
11/11/2021	37.95	38.54	0.59	0.20	0.33	manual
3/21/2022	37.47	37.48	0.01	<0.01	0.05	manual
			Total:	0.81	1.52	

Well ID - MW-9						
10/14/2017	35.75	38.14	2.39	0.25	0.1	manual
5/15/2018	37.16	37.65	0.49	0.2	<0.01	manual
10/21/2018	38.34	39.35	1.01	8.3	301	Mobile DPE*
5/21/2019	37.44	37.99	0.55	0.11	0.1	manual
11/10/2019	38.39	39.70	1.31	0.95	0.24	manual
5/11/2020	37.46	38.85	1.39	0.69	0.40	manual
8/19/2020	38.50	40.59	2.09	2.76	0.85	manual
11/12/2020	39.02	40.36	1.34	2.13	0.25	manual
3/18/2021	37.75	38.75	1.00	0.58	0.16	manual
5/19/2021	38.67	39.58	0.91	0.48	0.11	manual
8/23/2021	39.35	41.04	1.69	2.09	0.61	manual
11/11/2021	39.15	40.10	0.95	0.73	0.34	manual
3/21/2022	38.65	38.95	0.30	0.27	0.20	manual
5/22/2022	38.76	39.30	0.54	0.35	0.16	manual
8/2/2022	38.95	39.51	0.56	1.07	0.44	manual
11/6/2022	38.28	38.29	0.01	<0.01	0.16	manual
			Total:	21.0	305	

Notes:
gal = gallons.
* = Mobile Dual Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.
LNAPL = Light non-aqueous phase liquid
LNAPL recovery data for 2012 and previous years documented in previously-submitted reports.

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/04/96	996	2170	204	1520
MW-1	02/05/97	207	613	168	1010
MW-1	05/07/97	41.8	114	98	500
MW-1	08/08/97	1690	2980	298	1930
MW-1	11/07/97	533	1210	267	1720
MW-1	02/26/98	NS	NS	NS	NS
MW-1	02/24/99	NS	NS	NS	NS
MW-1	08/19/99	179	379	79	777
MW-1	11/10/99	39	95	56	390
MW-1	09/05/00	NS	NS	NS	NS
MW-1	10/06/00	NS	NS	NS	NS
MW-1	07/03/01	NS	NS	NS	NS
MW-1	09/04/01	NS	NS	NS	NS
MW-1	09/24/01	NS	NS	NS	NS
MW-1	04/01/02	NS	NS	NS	NS
MW-1	07/15/02	NS	NS	NS	NS
MW-1	10/08/02	NS	NS	NS	NS
MW-1	01/27/03	NS	NS	NS	NS
MW-1	04/26/03	NS	NS	NS	NS
MW-1	07/17/03	NS	NS	NS	NS
MW-1	10/13/03	NS	NS	NS	NS
MW-1	01/19/04	NS	NS	NS	NS
MW-1	04/20/04	NS	NS	NS	NS
MW-1	07/27/04	NS	NS	NS	NS
MW-1	10/20/04	NS	NS	NS	NS
MW-1	01/25/05	NS	NS	NS	NS
MW-1	04/14/05	NS	NS	NS	NS
MW-1	07/19/05	NS	NS	NS	NS
MW-1	10/12/05	NS	NS	NS	NS
MW-1	10/21/05	NS	NS	NS	NS
MW-1	01/23/06	NS	NS	NS	NS
MW-1	04/28/06	NS	NS	NS	NS
MW-1	07/26/06	NS	NS	NS	NS
MW-1	11/07/06	NS	NS	NS	NS
MW-1	01/17/07	NS	NS	NS	NS
MW-1	04/24/07	NS	NS	NS	NS
MW-1	07/31/07	NS	NS	NS	NS
MW-1	10/25/07	NS	NS	NS	NS
MW-1	01/25/08	NS	NS	NS	NS
MW-1	04/18/08	NS	NS	NS	NS
MW-1	07/23/08	NS	NS	NS	NS

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K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	10/08/08	7.3	3.9	20.2	68.7
MW-1	10/13/08	NS	NS	NS	NS
MW-1	01/16/09	NS	NS	NS	NS
MW-1	04/06/09	NS	NS	NS	NS
MW-1	08/25/09	NS	NS	NS	NS
MW-1	11/03/09	355	69.3	45.8	259
MW-1	02/16/10	NS	NS	NS	NS
MW-1	05/24/10	NS	NS	NS	NS
MW-1	09/27/10	NS	NS	NS	NS
MW-1	11/08/10	138	29.4	43.9	183
MW-1	02/01/11	NS	NS	NS	NS
MW-1	05/02/11	NS	NS	NS	NS
MW-1	09/23/11	NS	NS	NS	NS
MW-1	11/10/11	71.8	57.5	5	62.2
MW-1	02/22/12	NS	NS	NS	NS
MW-1	05/15/12	NS	NS	NS	NS
MW-1	06/05/13	350	61	15	220
MW-1	09/10/13	150	32	7	83
MW-1	12/11/13	150	100	13	120
MW-1	04/04/14	220	51	20	150
MW-1	10/22/14	140	53	5.2	73
MW-1	05/28/15	110	75	13	97
MW-1	11/21/15	65	17	2.1	28
MW-1	04/17/16	6.1	5.9	<1.0	10
MW-1	10/15/16	2	<5.0	<1.0	6.9
MW-1	06/07/17	52	18	5.6	38
MW-1	11/14/17	190	98	8.9	87
MW-1	05/15/18	22	27	<1.0	19
DP-01(MW-1)*	05/15/18	61	74	2.2	51
MW-1	10/27/18	42	12	4.6	31
DUP-01(MW-1)*	10/27/18	38	9.1	3.3	23
MW-1	05/21/19	72	47	8.3	140
MW-1	11/10/19	140	54	1.9	52
MW-1	05/12/20	340	220	19	370
MW-1	11/12/20	NS	NS	NS	NS
MW-1	03/18/21	NS	NS	NS	NS
MW-1	05/19/21	260	52	4.1	72
DUP-01(MW-1)*	05/19/21	250	50	4.1	72
MW-1	08/23/21	NS	NS	NS	NS
MW-1	11/11/21	NS	NS	NS	NS

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Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	05/22/22	180	21	1.3	28
MW-1	11/06/22	190	88	3.6	120
MW-2	08/31/00	5500	14000	670	5800
MW-2	09/05/00	NS	NS	NS	NS
MW-2	10/06/00	NS	NS	NS	NS
MW-2	07/03/01	NS	NS	NS	NS
MW-2	09/04/01	NS	NS	NS	NS
MW-2	09/24/01	NS	NS	NS	NS
MW-2	01/02/02	NS	NS	NS	NS
MW-2	04/01/02	NS	NS	NS	NS
MW-2	07/15/02	NS	NS	NS	NS
MW-2	10/08/02	NS	NS	NS	NS
MW-2	01/27/03	NS	NS	NS	NS
MW-2	04/26/03	NS	NS	NS	NS
MW-2	07/17/03	NS	NS	NS	NS
MW-2	10/13/03	NS	NS	NS	NS
MW-2	01/19/04	NS	NS	NS	NS
MW-2	04/20/04	NS	NS	NS	NS
MW-2	07/27/04	NS	NS	NS	NS
MW-2	10/20/04	NS	NS	NS	NS
MW-2	01/25/05	NS	NS	NS	NS
MW-2	04/14/05	NS	NS	NS	NS
MW-2	07/19/05	NS	NS	NS	NS
MW-2	10/21/05	NS	NS	NS	NS
MW-2	01/23/06	NS	NS	NS	NS
MW-2	04/28/06	NS	NS	NS	NS
MW-2	07/26/06	NS	NS	NS	NS
MW-2	11/07/06	NS	NS	NS	NS
MW-2	01/17/07	NS	NS	NS	NS
MW-2	04/24/07	NS	NS	NS	NS
MW-2	07/31/07	NS	NS	NS	NS
MW-2	10/25/07	NS	NS	NS	NS
MW-2	01/25/08	NS	NS	NS	NS
MW-2	04/18/08	NS	NS	NS	NS
MW-2	07/23/08	NS	NS	NS	NS
MW-2	10/13/08	NS	NS	NS	NS
MW-2	01/16/09	NS	NS	NS	NS
MW-2	04/06/09	NS	NS	NS	NS
MW-2	08/25/09	NS	NS	NS	NS

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K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-2	11/03/09	223	1070	532	2590
MW-2	02/16/10	NS	NS	NS	NS
MW-2	05/24/10	NS	NS	NS	NS
MW-2	09/27/10	NS	NS	NS	NS
MW-2	11/08/10	152	547	471	2190
MW-2	02/01/11	NS	NS	NS	NS
MW-2	05/02/11	NS	NS	NS	NS
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/10/11	31.9	101	156	446
MW-2	02/22/12	NS	NS	NS	NS
MW-2	05/15/12	NS	NS	NS	NS
MW-2	06/05/13	NS	NS	NS	NS
MW-2	09/10/13	NS	NS	NS	NS
MW-2	12/11/13	NS	NS	NS	NS
MW-2	04/04/14	NS	NS	NS	NS
MW-2 abandoned and replaced with MW-2R on September 26, 2016					
MW-2R	10/15/16	NS	NS	NS	NS
MW-2R	06/07/17	NS	NS	NS	NS
MW-2R	07/26/17	NS	NS	NS	NS
MW-2R	11/14/17	NS	NS	NS	NS
MW-2R	05/15/18	NS	NS	NS	NS
MW-2R	10/27/18	35	140	65	250
MW-2R	05/21/19	NS	NS	NS	NS
MW-2R	11/10/19	NS	NS	NS	NS
MW-2R	05/12/20	NS	NS	NS	NS
MW-2R	11/12/20	NS	NS	NS	NS
MW-2R	03/18/21	NS	NS	NS	NS
MW-2R	05/19/21	NS	NS	NS	NS
MW-2R	08/23/21	NS	NS	NS	NS
MW-2R	11/11/21	NS	NS	NS	NS
MW-2R	05/22/22	NS	NS	NS	NS
MW-2R	11/06/22	NS	NS	NS	NS
MW-3	09/05/00	<0.5	<0.5	<0.5	<0.5
MW-3	07/03/01	<0.5	<0.5	<0.5	<0.5
MW-3	09/04/01	NS	NS	NS	NS
MW-3	09/24/01	NS	NS	NS	NS
MW-3	04/01/02	NS	NS	NS	NS
MW-3	07/15/02	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	10/08/02	NS	NS	NS	NS
MW-3	07/17/03	NS	NS	NS	NS
MW-3	10/13/03	NS	NS	NS	NS
MW-3	01/19/04	NS	NS	NS	NS
MW-3	04/20/04	NS	NS	NS	NS
MW-3	07/27/04	NS	NS	NS	NS
MW-3	10/20/04	NS	NS	NS	NS
MW-3	01/25/05	NS	NS	NS	NS
MW-3	04/14/05	NS	NS	NS	NS
MW-3	07/19/05	NS	NS	NS	NS
MW-3	10/21/05	<1	<1	<1	<2
MW-3	01/23/06	NS	NS	NS	NS
MW-3	04/28/06	NS	NS	NS	NS
MW-3	07/26/06	NS	NS	NS	NS
MW-3	11/07/06	1.1	1.6	0.42 J	2.3
MW-3	01/17/07	NS	NS	NS	NS
MW-3	04/24/07	NS	NS	NS	NS
MW-3	07/31/07	NS	NS	NS	NS
MW-3	10/25/07	<1	<1	<1	<2
MW-3	01/25/08	NS	NS	NS	NS
MW-3	04/18/08	NS	NS	NS	NS
MW-3	07/23/08	NS	NS	NS	NS
MW-3	10/08/08	<2	<2	<2	<6
MW-3	10/13/08	NS	NS	NS	NS
MW-3	01/16/09	NS	NS	NS	NS
MW-3	04/06/09	NS	NS	NS	NS
MW-3	08/25/09	NS	NS	NS	NS
MW-3	11/03/09	<1	<1	<1	<2
MW-3	02/16/10	NS	NS	NS	NS
MW-3	05/24/10	NS	NS	NS	NS
MW-3	09/27/10	NS	NS	NS	NS
MW-3	11/08/10	<2	<2	<2	<6
MW-3	02/01/11	NS	NS	NS	NS
MW-3	05/02/11	NS	NS	NS	NS
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/10/11	<1	<1	<1	<3
MW-3	02/22/12	NS	NS	NS	NS
MW-3	05/15/12	NS	NS	NS	NS
MW-3	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-3	09/10/13	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-3	12/11/13	NS	NS	NS	NS
MW-3	04/04/14	NS	NS	NS	NS
MW-3	10/22/14	NS	NS	NS	NS
MW-3	05/28/15	NS	NS	NS	NS
MW-3	11/21/15	NS	NS	NS	NS
MW-3	04/17/16	NS	NS	NS	NS
MW-3 abandoned and replaced with MW-3R on September 26, 2016					
MW-3R	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-3R	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-3R	11/14/17	<1.0	<1.0	<1.0	<10
MW-3R	05/15/18	<1.0	<1.0	<1.0	<10
MW-3R	10/27/18	<1.0	<1.0	<1.0	<10
MW-3R	05/21/19	<1.0	<1.0	<1.0	<10
MW-3R	11/10/19	<1.0	<1.0	<1.0	<10
MW-3R	05/12/20	<1.0	<1.0	<1.0	<10
MW-3R	11/12/20	<1.0	<1.0	<1.0	<10
MW-3R	05/19/21	<1.0	<1.0	<1.0	<10
MW-3R	11/11/21	<1.0	<1.0	<1.0	<10
MW-3R	05/22/22	<1.0	<1.0	<1.0	<10
MW-3R	11/06/22	<1.0	<1.0	<1.0	<10
MW-4	11/08/06	<1	<1	<1	<2
MW-4	01/17/07	NS	NS	NS	NS
MW-4	04/24/07	NS	NS	NS	NS
MW-4	07/31/07	NS	NS	NS	NS
MW-4	10/25/07	<1	<1	<1	<2
MW-4	01/25/08	NS	NS	NS	NS
MW-4	04/18/08	NS	NS	NS	NS
MW-4	07/23/08	NS	NS	NS	NS
MW-4	10/08/08	<2	<2	<2	<6
MW-4	10/13/08	NS	NS	NS	NS
MW-4	01/16/09	NS	NS	NS	NS
MW-4	04/06/09	NS	NS	NS	NS
MW-4	08/25/09	NS	NS	NS	NS
MW-4	11/03/09	<1	<1	<1	<2
MW-4	02/16/10	NS	NS	NS	NS
MW-4	05/24/10	NS	NS	NS	NS
MW-4	09/27/10	NS	NS	NS	NS
MW-4	11/08/10	<2	<2	<2	<6

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-4	02/01/11	NS	NS	NS	NS
MW-4	05/02/11	NS	NS	NS	NS
MW-4	09/23/11	NS	NS	NS	NS
MW-4	11/10/11	<1	<1	<1	<3
MW-4	02/22/12	NS	NS	NS	NS
MW-4	05/15/12	NS	NS	NS	NS
MW-4	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-4	09/10/13	<0.14	<0.30	<0.20	<0.23
MW-4	12/11/13	<0.20	<0.38	<0.20	<0.65
MW-4	04/14/14	<0.20	<0.38	<0.20	<0.65
MW-4	10/22/14	<0.38	<0.70	<0.50	<1.6
MW-4	05/28/15	<1.0	<5.0	<1.0	<5.0
MW-4	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-4	04/17/16	<1.0	<5.0	<1.0	<5.0
MW-4	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-4	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-4	11/14/17	<1.0	<1.0	<1.0	<10
MW-4	05/15/18	NS	NS	NS	NS
MW-4	10/27/18	NS	NS	NS	NS
MW-4	05/21/19	NS	NS	NS	NS
MW-4	11/10/19	NS	NS	NS	NS
MW-4	05/12/20	<1.0	<1.0	<1.0	<10
MW-4	11/12/20	NS	NS	NS	NS
MW-4	05/19/21	NS	NS	NS	NS
MW-4	11/11/21	NS	NS	NS	NS
MW-4	05/22/22	<1.0	<1.0	<1.0	<10
MW-4	11/06/22	NS	NS	NS	NS
MW-5	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-5	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-5	11/14/17	<1.0	<1.0	<1.0	<10
MW-5	05/15/18	NS	NS	NS	NS
MW-5	10/27/18	NS	NS	NS	NS
MW-5	05/21/19	NS	NS	NS	NS
MW-5	11/10/19	NS	NS	NS	NS
MW-5	05/12/20	<1.0	<1.0	<1.0	<10
MW-5	11/12/20	NS	NS	NS	NS
MW-5	05/19/21	NS	NS	NS	NS
MW-5	11/11/21	NS	NS	NS	NS

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-5	05/22/22	<1.0	<1.0	<1.0	<10
MW-5	11/06/22	NS	NS	NS	NS
MW-6	10/15/16	4.5	<5.0	4.5	59
MW-6	06/07/17	1.4	<5.0	<1.0	<5.0
MW-6	11/14/17	<1.0	<1.0	1.7	170
MW-6	05/15/18	<1.0	<1.0	<1.0	<10
MW-6	10/27/18	<1.0	<1.0	<1.0	<10
MW-6	05/21/19	NS	NS	NS	NS
MW-6	11/10/19	NS	NS	NS	NS
MW-6	05/12/20	<1.0	<1.0	<1.0	<10
MW-6	11/12/20	NS	NS	NS	NS
MW-6	03/18/21	NS	NS	NS	NS
MW-6	05/19/21	<1.0	<1.0	<1.0	<10
MW-6	08/23/21	NS	NS	NS	NS
MW-6	11/11/21	NS	NS	NS	NS
MW-6	05/22/22	NS	NS	NS	NS
MW-6	11/06/22	<5.0	<5.0	15	680
MW-7	10/15/16	2.2	<5.0	<1.0	<5.0
MW-7	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-7	11/14/17	<1.0	<1.0	<1.0	<10
MW-7	05/15/18	<1.0	<1.0	<1.0	<10
MW-7	10/27/18	<1.0	<1.0	<1.0	<10
MW-7	05/21/19	1.6	<1.0	<1.0	<10
MW-7	11/10/19	<1.0	<1.0	<1.0	<10
MW-7	05/12/20	5.5	<1.0	<1.0	<10
(DUP-01)MW-7*	05/12/20	6.5	<1.0	<1.0	<10
MW-7	11/12/20	<1.0	<1.0	<1.0	<10
(DUP-01)MW-7	11/12/20	<1.0	<1.0	<1.0	<10
MW-7	05/19/21	NS	NS	NS	NS
MW-7	08/23/21	NS	NS	NS	NS
MW-7	11/11/21	<1.0	<1.0	2.4	30
(DUP-01)MW-7	11/11/21	<1.0	<1.0	3.2	35
MW-7	05/22/22	<1.0	<1.0	<1.0	<10
(DUP-01)MW-7	05/22/22	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-7	11/06/22	<1.0	<1.0	<1.0	<10
(DUP-01)MW-7	11/06/22	<1.0	<1.0	<1.0	<10
MW-8	10/15/16	4.8	42	23	230
MW-8	06/07/17	<1.0	<5.0	2	15
MW-8	11/14/17	<1.0	<1.0	<1.0	<10
MW-8	05/15/18	NS	NS	NS	NS
MW-8	10/21/18	NS	NS	NS	NS
MW-8	10/27/18	NS	NS	NS	NS
MW-8	05/21/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-8)*	05/21/19	<1.0	<1.0	<1.0	<10
MW-8	11/10/19	<1.0	<1.0	<1.0	<10
DUP-1(MW-8)*	11/10/19	<1.0	<1.0	<1.0	<10
MW-8	05/12/20	<1.0	3.6	1.8	36
MW-8	11/12/20	NS	NS	NS	NS
MW-8	03/18/21	NS	NS	NS	NS
MW-8	05/19/21	NS	NS	NS	NS
MW-8	08/23/21	NS	NS	NS	NS
MW-8	11/11/21	NS	NS	NS	NS
MW-8	03/21/22	NS	NS	NS	NS
MW-8	05/22/22	1.5	2.6	4.0	49
MW-8	11/06/22	<1.0	<1.0	<1.0	<10
MW-9	11/14/17	NS	NS	NS	NS
MW-9	05/15/18	NS	NS	NS	NS
MW-9	10/27/18	1.8	<1.0	<1.0	49
MW-9	05/21/19	NS	NS	NS	NS
MW-9	11/10/19	NS	NS	NS	NS
MW-9	05/12/20	NS	NS	NS	NS
MW-9	11/12/20	NS	NS	NS	NS
MW-9	03/18/21	NS	NS	NS	NS
MW-9	05/19/21	NS	NS	NS	NS
MW-9	08/23/21	NS	NS	NS	NS
MW-9	11/11/21	NS	NS	NS	NS
MW-9	05/22/22	NS	NS	NS	NS
MW-9	11/06/22	NS	NS	NS	NS
MW-10	11/14/17	<1.0	<1.0	<1.0	<10
MW-10	05/15/18	<1.0	<1.0	<1.0	<10

TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

K-27 Line Drip					
Location	**Date**	**Benzene (µg/L)**	**Toluene (µg/L)**	**Ethylbenzene (µg/L)**	**Total Xylenes (µg/L)**
NMWQCC Standards:		10	750	750	620
MW-10	10/27/18	<1.0	<1.0	<1.0	<10
MW-10	05/21/19	<1.0	<1.0	<1.0	<10
MW-10	11/10/19	<1.0	<1.0	<1.0	<10
MW-10	05/12/20	<1.0	<1.0	<1.0	<10
MW-10	11/12/20	<1.0	<1.0	<1.0	<10
MW-10	05/19/21	<1.0	<1.0	<1.0	<10
MW-10	11/11/21	<1.0	<1.0	<1.0	<10
MW-10	05/22/22	<1.0	<1.0	<1.0	<10
MW-10	11/06/22	<1.0	<1.0	<1.0	<10
MW-12	11/06/22	<1.0	<1.0	<1.0	<10
MW-13	11/06/22	<1.0	<1.0	<1.0	<10
MW-14	11/06/22	<1.0	<1.0	<1.0	<10

Notes:
"NS" = Not Sampled
"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 results

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/04/96	6261.93	NR	37.44		6224.49
MW-1	02/05/97	6261.93	NR	36.89		6225.04
MW-1	05/07/97	6261.93	NR	36.73		6225.20
MW-1	08/08/97	6261.93	NR	37.61		6224.32
MW-1	11/07/97	6261.93	37.21	37.33	0.12	6224.69
MW-1	02/26/98	6261.93	36.71	36.89	0.18	6225.18
MW-1	02/24/99	6261.93	36.27	36.39	0.12	6225.63
MW-1	08/19/99	6261.93	NR	36.48		6225.45
MW-1	11/10/99	6261.93	36.1	36.17	0.07	6225.81
MW-1	09/05/00	6261.93	NR	37.22		6224.71
MW-1	10/06/00	6261.93	NR	37.42		6224.51
MW-1	07/03/01	6261.93	36.49	36.64	0.15	6225.40
MW-1	09/04/01	6261.93	37.39	37.43	0.04	6224.53
MW-1	09/24/01	6261.93	37.4	37.45	0.05	6224.52
MW-1	04/01/02	6261.93	NR	37.01		6224.92
MW-1	07/15/02	6261.93	37.85	38.02	0.17	6224.04
MW-1	10/08/02	6261.93	38	38.01	0.01	6223.93
MW-1	01/27/03	6261.93	ND	37.42		6224.51
MW-1	04/26/03	6261.93	ND	37.15		6224.78
MW-1	07/17/03	6261.93	38.18	38.36	0.18	6223.71
MW-1	10/13/03	6261.93	ND	38.29		6223.64
MW-1	01/19/04	6261.93	37.68	37.69	0.01	6224.25
MW-1	04/20/04	6261.93	ND	37.29		6224.64
MW-1	07/27/04	6261.93	38.28	38.45	0.17	6223.61
MW-1	10/20/04	6261.93	38.68	38.71	0.03	6223.24
MW-1	01/25/05	6261.93	38.16	38.18	0.02	6223.77
MW-1	04/14/05	6261.93	37.75	37.84	0.09	6224.16
MW-1	07/19/05	6261.93	ND	38.84		6223.09
MW-1	10/12/05	6261.93	ND	38.46		6223.47
MW-1	10/21/05	6261.93	ND	38.46		6223.47
MW-1	01/23/06	6261.93	ND	37.89		6224.04
MW-1	04/28/06	6261.93	ND	37.57		6224.36
MW-1	07/26/06	6261.93	ND	38.61		6223.32
MW-1	11/07/06	6261.93	36.31	36.37	0.06	6225.61
MW-1	01/17/07	6261.93	ND	35.91		6226.02
MW-1	04/24/07	6261.93	ND	35.53		6226.40
MW-1	07/31/07	6261.93	ND	36.57		6225.36
MW-1	10/25/07	6261.93	ND	36.04		6225.89
MW-1	01/25/08	6261.93	ND	35.90		6226.03
MW-1	04/18/08	6261.93	ND	35.47		6226.46
MW-1	07/23/08	6261.93	ND	36.43		6225.50
MW-1	10/08/08	6261.93	ND	36.95		6224.98
MW-1	10/13/08	6261.93	ND	36.93		6225.00
MW-1	01/16/09	6261.93	ND	36.77		6225.16
MW-1	04/06/09	6261.93	ND	36.30		6225.63
MW-1	08/25/09	6261.93	ND	37.53		6224.40
MW-1	11/03/09	6261.93	ND	37.58		6224.35
MW-1	02/16/10	6261.93	ND	37.32		6224.61
MW-1	05/24/10	6261.93	ND	36.97		6224.96

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	09/27/10	6261.93	ND	37.98		6223.95
MW-1	11/08/10	6261.93	ND	37.70		6224.23
MW-1	02/01/11	6261.93	ND	37.35		6224.58
MW-1	05/02/11	6261.93	ND	37.26		6224.67
MW-1	09/23/11	6261.93	ND	38.45		6223.48
MW-1	11/10/11	6261.93	ND	38.30		6223.63
MW-1	02/22/12	6261.93	ND	37.82		6224.11
MW-1	05/15/12	6261.93	ND	37.81		6224.12
MW-1	06/05/13	6261.93	ND	38.16		6223.77
MW-1	09/10/13	6261.93	ND	38.85		6223.08
MW-1	12/11/13	6261.93	ND	38.05		6223.88
MW-1	04/04/14	6261.93	ND	37.54		6224.39
MW-1	10/22/14	6261.93	ND	38.36		6223.57
MW-1	05/28/15	6261.93	ND	37.30		6224.63
MW-1	11/21/15	6261.93	ND	37.72		6224.21
MW-1	04/17/16	6261.93	ND	37.29		6224.64
MW-1	10/15/16	6261.93	ND	40.48		6221.45
MW-1	06/07/17	6261.93	ND	37.45		6224.48
MW-1	11/14/17	6261.93	ND	37.96		6223.97
MW-1	05/15/18	6261.93	ND	37.39		6224.54
MW-1	10/21/18	6261.93	ND	38.74		6223.19
MW-1	10/27/18	6261.93	ND	38.71		6223.22
MW-1	05/21/19	6261.93	ND	37.64		6224.29
MW-1	11/10/19	6261.93	ND	38.87		6223.06
MW-1	05/12/20	6261.93	ND	38.31		6223.62
MW-1	11/12/20	6261.93	39.47	39.49	0.02	6222.46
MW-1	03/18/21	6261.93	ND	39.12		6222.81
MW-1	05/19/21	6261.93	ND	38.98		6222.95
MW-1	08/23/21	6261.93	39.89	39.89	<0.01	6222.04
MW-1	11/11/21	6261.93	39.49	39.51	0.02	6222.42
MW-1	03/21/22	6261.93	ND	38.81		6223.12
MW-1	05/22/22	6261.93	ND	39.01		6222.92
MW-1	08/02/22	6261.93	39.15	39.16	0.01	6222.77
MW-1	11/06/22	6261.93	ND	38.38		6222.92
MW-2	08/31/00	6261.39	NR	35.81		6225.58
MW-2	09/05/00	6261.39	36.11	37.28	1.17	6224.99
MW-2	10/06/00	6261.39	36.04	37.31	1.27	6225.03
MW-2	07/03/01	6261.39	36.12	37.37	1.25	6224.96
MW-2	09/04/01	6261.39	36.25	36.52	0.27	6225.07
MW-2	09/24/01	6261.39	36.27	36.46	0.19	6225.07
MW-2	01/02/02	6261.39	35.87	36.97	1.1	6225.24
MW-2	04/01/02	6261.39	35.67	36.61	0.94	6225.48
MW-2	07/15/02	6261.39	NR	38.00		6223.39
MW-2	10/08/02	6261.39	36.94	37.01	0.07	6224.43
MW-2	01/27/03	6261.39	36.31	36.47	0.16	6225.04
MW-2	04/26/03	6261.39	35.85	36.88	1.03	6225.28
MW-2	07/17/03	6261.39	36.75	38.20	1.45	6224.28

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	10/13/03	6261.39	37.07	37.64	0.57	6224.18
MW-2	01/19/04	6261.39	36.51	36.72	0.21	6224.83
MW-2	04/20/04	6261.39	35.91	36.93	1.02	6225.22
MW-2	07/27/04	6261.39	36.88	38.30	1.42	6224.15
MW-2	10/20/04	6261.39	37.37	38.23	0.86	6223.80
MW-2	01/25/05	6261.39	36.77	42.87	6.1	6223.09
MW-2	04/14/05	6261.39	36.55	36.55		6224.84
MW-2	07/19/05	6261.39	37.55	38.16	0.61	6223.69
MW-2	10/21/05	6261.39	37.06	38.31	1.25	6224.02
MW-2	01/23/06	6261.39	36.69	37.31	0.62	6224.54
MW-2	04/28/06	6261.39	36.33	37.01	0.68	6224.89
MW-2	07/26/06	6261.39	37.42	38.37	0.95	6223.73
MW-2	11/07/06	6261.39	35.21	35.28	0.07	6226.16
MW-2	01/17/07	6261.39	ND	35.35		6226.04
MW-2	04/24/07	6261.39	ND	35.08		6226.31
MW-2	07/31/07	6261.39	36.01	36.03	0.02	6225.37
MW-2	10/25/07	6261.39	ND	35.53		6225.86
MW-2	01/25/08	6261.39	35.34	35.37	0.03	6226.04
MW-2	04/18/08	6261.39	ND	34.90		6226.49
MW-2	07/23/08	6261.39	ND	35.95		6225.44
MW-2	10/13/08	6261.39	ND	36.39		6225.00
MW-2	01/16/09	6261.39	36.14	36.39	0.25	6225.19
MW-2	04/06/09	6261.39	35.94	35.98	0.04	6225.44
MW-2	08/25/09	6261.39	36.97	37.03	0.06	6224.40
MW-2	11/03/09	6261.39	36.96	37.00	0.04	6224.42
MW-2	02/16/10	6261.39	ND	36.96		6224.43
MW-2	05/24/10	6261.39	36.48	36.55	0.07	6224.89
MW-2	09/27/10	6261.39	37.57	37.58	0.01	6223.82
MW-2	11/08/10	6261.39	ND	37.72		6223.67
MW-2	02/01/11	6261.39	ND	36.92		6224.47
MW-2	05/02/11	6261.39	ND	36.71		6224.68
MW-2	09/23/11	6261.39	ND	38.01		6223.38
MW-2	11/10/11	6261.39	37.69	37.70	0.01	6223.70
MW-2	02/22/12	6261.39	37.39	37.54	0.15	6223.96
MW-2	05/15/12	6261.39	37.37	37.48	0.11	6223.99
MW-2	06/05/13	6261.39	ND	NA		NA
MW-2	09/10/13	6261.39	ND	NA		NA
MW-2	12/11/13	6261.39	ND	NA		NA
MW-2	04/04/14	6261.39	ND	NA		NA
MW-2 abandoned and replaced with MW-2R on September 26, 2016						
MW-2R	10/15/16	6260.93	37.62	37.97	0.35	6223.22
MW-2R	06/07/17	6260.93	36.53	36.94	0.41	6224.30
MW-2R	07/26/17	6260.93	32.24	32.81	0.57	6228.55
MW-2R	11/14/17	6260.93	36.95	37.76	0.81	6223.78
MW-2R	05/15/18	6260.93	36.48	36.86	0.38	6224.36
MW-2R	10/21/18	6260.93	37.64	38.85	1.21	6222.99
MW-2R	10/27/18	6260.93	ND	37.78		6223.15

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2R	05/21/19	6260.93	36.7	37.35	0.65	6224.07
MW-2R	11/10/19	6260.93	37.65	38.82	1.17	6222.99
MW-2R	05/12/20	6260.93	37.26	38.24	0.98	6223.43
MW-2R	08/19/20	6260.93	38.24	39.75	1.51	6222.31
MW-2R	11/12/20	6260.93	38.62	38.69	0.07	6222.29
MW-2R	03/18/21	6260.93	37	38.00	1	6223.68
MW-2R	05/19/21	6260.93	37.92	39.03	1.11	6222.73
MW-2R	08/23/21	6260.93	38.92	39.80	0.88	6221.79
MW-2R	11/11/21	6260.93	38.67	38.78	0.11	6222.23
MW-2R	03/21/22	6260.93	37.81	38.69	0.88	6222.90
MW-2R	05/22/22	6260.93	37.93	38.94	1.01	6222.75
MW-2R	08/02/22	6260.93	38.35	38.70	0.35	6222.49
MW-2R	11/06/22	6260.93	37.54	37.85	0.31	6222.75
MW-3	09/05/00	6261.71	NR	37.40		6224.31
MW-3	07/03/01	6261.71	NR	37.69		6224.02
MW-3	09/04/01	6261.71	NR	37.50		6224.21
MW-3	09/24/01	6261.71	NR	37.51		6224.20
MW-3	04/01/02	6261.71	NR	37.08		6224.63
MW-3	07/15/02	6261.71	NR	37.13		6224.58
MW-3	10/08/02	6261.71	NR	38.09		6223.63
MW-3	07/17/03	6261.71	ND	38.28		6223.43
MW-3	10/13/03	6261.71	ND	38.34		6223.37
MW-3	01/19/04	6261.71	ND	37.69		6224.02
MW-3	04/20/04	6261.71	ND	37.26		6224.45
MW-3	07/27/04	6261.71	ND	38.36		6223.35
MW-3	10/20/04	6261.71	ND	38.72		6222.99
MW-3	01/25/05	6261.71	ND	38.13		6223.58
MW-3	04/14/05	6261.71	ND	37.74		6223.97
MW-3	07/19/05	6261.71	ND	38.74		6222.97
MW-3	10/21/05	6261.71	ND	38.48		6223.23
MW-3	01/23/06	6261.71	ND	37.89		6223.82
MW-3	04/28/06	6261.71	ND	37.61		6224.10
MW-3	07/26/06	6261.71	ND	38.34		6223.37
MW-3	11/07/06	6261.71	ND	36.50		6225.21
MW-3	01/17/07	6261.71	ND	35.98		6225.73
MW-3	04/24/07	6261.71	ND	35.64		6226.07
MW-3	07/31/07	6261.71	ND	36.59		6225.12
MW-3	10/25/07	6261.71	ND	36.20		6225.51
MW-3	01/25/08	6261.71	ND	36.00		6225.71
MW-3	04/18/08	6261.71	ND	35.56		6226.15
MW-3	07/23/08	6261.71	ND	36.60		6225.11
MW-3	10/08/08	6261.71	ND	37.09		6224.62
MW-3	10/13/08	6261.71	ND	37.09		6224.62
MW-3	01/16/09	6261.71	ND	36.83		6224.88
MW-3	04/06/09	6261.71	ND	36.43		6225.28
MW-3	08/25/09	6261.71	ND	37.62		6224.09
MW-3	11/03/09	6261.71	ND	37.67		6224.04

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	02/16/10	6261.71	ND	37.16		6224.55
MW-3	05/24/10	6261.71	ND	37.02		6224.69
MW-3	09/27/10	6261.71	ND	38.07		6223.64
MW-3	11/08/10	6261.71	ND	37.82		6223.89
MW-3	02/01/11	6261.71	ND	37.39		6224.32
MW-3	05/02/11	6261.71	ND	37.28		6224.43
MW-3	09/23/11	6261.71	ND	38.15		6223.56
MW-3	11/10/11	6261.71	ND	38.13		6223.58
MW-3	02/22/12	6261.71	ND	37.85		6223.86
MW-3	05/15/12	6261.71	ND	37.87		6223.84
MW-3	06/05/13	6261.71	ND	38.26		6223.45
MW-3	09/10/13	6261.71	ND	38.95		6222.76
MW-3	12/11/13	6261.71	ND	DRY		NA
MW-3	04/04/14	6261.71	ND	DRY		NA
MW-3	10/22/14	6261.71	ND	DRY		NA
MW-3	05/28/15	6261.71	ND	DRY		NA
MW-3	11/21/15	6261.71	ND	DRY		NA
MW-3	04/17/16	6261.71	ND	DRY		NA
MW-3 abandoned and replaced with MW-3R on September 26, 2016						
MW-3R	10/15/16	6261.09	ND	37.92		6223.17
MW-3R	06/07/17	6261.09	ND	36.83		6224.26
MW-3R	11/14/17	6261.09	ND	37.37		6223.72
MW-3R	05/15/18	6261.09	ND	36.77		6224.32
MW-3R	10/21/18	6261.09	ND	38.12		6222.97
MW-3R	10/27/18	6261.09	ND	38.05		6223.04
MW-3R	05/21/19	6261.09	ND	37.00		6224.09
MW-3R	11/10/19	6261.09	ND	38.15		6222.94
MW-3R	05/12/20	6261.09	ND	37.66		6223.43
MW-3R	11/12/20	6261.09	ND	38.85		6222.24
MW-3R	05/19/21	6261.09	ND	38.40		6222.69
MW-3R	11/11/21	6261.09	ND	38.86		6222.23
MW-3R	05/22/22	6261.09	ND	38.42		6222.67
MW-3R	11/06/22	6261.09	ND	37.78		6223.31
MW-4	11/08/06	6258.51	ND	32.95		6225.56
MW-4	01/17/07	6258.51	ND	32.63		6225.88
MW-4	04/24/07	6258.51	ND	32.30		6226.21
MW-4	07/31/07	6258.51	ND	33.33		6225.18
MW-4	10/25/07	6258.51	ND	32.90		6225.61
MW-4	01/25/08	6258.51	ND	32.64		6225.87
MW-4	04/18/08	6258.51	ND	32.20		6226.31
MW-4	07/23/08	6258.51	ND	33.30		6225.21
MW-4	10/08/08	6258.51	ND	33.79		6224.72
MW-4	10/13/08	6258.51	ND	33.80		6224.71
MW-4	01/16/09	6258.51	ND	33.53		6224.98
MW-4	04/06/09	6258.51	ND	33.18		6225.33
MW-4	08/25/09	6258.51	ND	34.35		6224.16

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-4	11/03/09	6258.51	ND	34.35		6224.16
MW-4	02/16/10	6258.51	ND	34.05		6224.46
MW-4	05/24/10	6258.51	ND	33.65		6224.86
MW-4	09/27/10	6258.51	ND	34.81		6223.70
MW-4	11/08/10	6258.51	ND	34.55		6223.96
MW-4	02/01/11	6258.51	ND	34.12		6224.39
MW-4	05/02/11	6258.51	ND	33.93		6224.58
MW-4	09/23/11	6258.51	ND	35.22		6223.29
MW-4	11/10/11	6258.51	ND	35.02		6223.49
MW-4	02/22/12	6258.51	ND	34.66		6223.85
MW-4	05/15/12	6258.51	ND	34.61		6223.90
MW-4	06/05/13	6258.51	ND	34.96		6223.55
MW-4	09/10/13	6258.51	ND	35.61		6222.90
MW-4	12/11/13	6258.51	ND	34.73		6223.78
MW-4	04/14/14	6258.51	ND	34.21		6224.30
MW-4	10/22/14	6258.51	ND	35.10		6223.41
MW-4	05/28/15	6258.51	ND	34.08		6224.43
MW-4	11/21/15	6258.51	ND	34.33		6224.18
MW-4	04/17/16	6258.51	ND	33.92		6224.59
MW-4	10/15/16	6258.51	ND	35.27		6223.24
MW-4	06/07/17	6258.51	ND	34.23		6224.28
MW-4	11/14/17	6258.51	ND	34.73		6223.78
MW-4	05/15/18	6258.51	ND	34.16		6224.35
MW-4	10/21/18	6258.51	ND	35.49		6223.02
MW-4	10/27/18	6258.51	ND	35.42		6223.09
MW-4	05/21/19	6258.51	ND	34.41		6224.10
MW-4	11/10/19	6258.51	ND	35.39		6223.12
MW-4	05/12/20	6258.51	ND	35.07		6223.44
MW-4	11/12/20	6258.51	ND	36.23		6222.28
MW-4	05/19/21	6258.51	ND	35.82		6222.69
MW-4	11/11/21	6258.51	ND	36.24		6222.27
MW-4	05/22/22	6258.51	ND	35.78		6222.73
MW-4	11/06/22	6258.51	ND	35.15		6223.36
MW-5	10/15/16	6264.51	ND	41.24		6223.27
MW-5	06/07/17	6264.51	ND	40.14		6224.37
MW-5	11/14/17	6264.51	ND	40.70		6223.81
MW-5	05/15/18	6264.51	ND	40.09		6224.42
MW-5	10/21/18	6264.51	ND	41.46		6223.05
MW-5	10/27/18	6264.51	ND	41.40		6223.11
MW-5	05/21/19	6264.51	ND	40.34		6224.17
MW-5	11/10/19	6264.51	ND	41.53		6222.98
MW-5	05/12/20	6264.51	ND	41.00		6223.51
MW-5	11/12/20	6264.51	ND	42.13		6222.38
MW-5	05/19/21	6264.51	ND	41.74		6222.77
MW-5	11/11/21	6264.51	ND	42.21		6222.30

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-5	05/22/22	6264.51	ND	41.74		6222.77
MW-5	11/06/22	6264.51	ND	41.12		6223.39
MW-6	10/15/16	6263.51	ND	40.14		6223.37
MW-6	06/07/17	6263.51	ND	39.07		6224.44
MW-6	11/14/17	6263.51	ND	39.69		6223.82
MW-6	05/15/18	6263.51	ND	39.01		6224.50
MW-6	10/21/18	6263.51	40.4	40.49	0.09	6223.08
MW-6	10/27/18	6263.51	ND	40.34		6223.17
MW-6	05/21/19	6263.51	ND	39.30		6224.21
MW-6	11/10/19	6263.51	ND	40.46		6223.05
MW-6	05/12/20	6263.51	ND	39.91		6223.60
MW-6	11/12/20	6263.51	41.04	41.09	0.05	6222.45
MW-6	03/18/21	6263.51	ND	40.77		6222.74
MW-6	05/19/21	6263.51	ND	40.60		6222.91
MW-6	08/23/21	6263.51	41.29	41.93	0.64	6222.06
MW-6	11/11/21	6263.51	41.02	41.39	0.37	6222.39
MW-6	03/21/22	6263.51	40.43	40.58	1.37	6223.04
MW-6	05/22/22	6263.51	40.54	40.80	2.37	6222.90
MW-6	08/02/22	6263.51	40.98	41.12	3.37	6222.49
MW-6	11/06/22	6263.51	ND	40.14		6223.37
MW-7	10/15/16	6262.84	ND	39.32		6223.52
MW-7	06/07/17	6262.84	ND	37.34		6225.50
MW-7	11/14/17	6262.84	ND	37.88		6224.96
MW-7	05/15/18	6262.84	ND	37.27		6225.57
MW-7	10/21/18	6262.84	ND	38.62		6224.22
MW-7	10/27/18	6262.84	ND	38.56		6224.28
MW-7	05/21/19	6262.84	ND	37.54		6225.30
MW-7	11/10/19	6262.84	ND	38.64		6224.20
MW-7	05/12/20	6262.84	ND	38.18		6224.66
MW-7	11/12/20	6262.84	ND	39.37		6223.47
MW-7	05/19/21	6262.84	38.83	39.05	0.22	6223.96
MW-7	08/23/21	6262.84	39.66	40.10	0.44	6223.07
MW-7	11/11/21	6262.84	ND	39.39		6223.45
MW-7	03/21/22	6262.84	ND	38.74		6224.10
MW-7	05/22/22	6262.84	ND	38.90		6223.94
MW-7	08/02/22	6262.84	ND	39.10		6223.74
MW-7	11/06/22	6262.84	ND	38.28		6224.56
MW-8	10/15/16	6260.37	ND	37.10		6223.27
MW-8	06/07/17	6260.37	ND	36.08		6224.29
MW-8	11/14/17	6260.37	ND	36.56		6223.81
MW-8	05/15/18	6260.37	ND	35.97		6224.40
MW-8	10/21/18	6260.37	ND	37.40		6222.97
MW-8	10/27/18	6260.37	37.15	37.57	0.42	6223.11
MW-8	05/21/19	6260.37	ND	36.26		6224.11

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-8	11/10/19	6260.37	ND	37.39		6222.98
MW-8	05/12/20	6260.37	ND	36.88		6223.49
MW-8	11/12/20	6260.37	37.84	38.04	0.2	6222.48
MW-8	03/18/21	6260.37	37.58	37.60	0.02	6222.78
MW-8	05/19/21	6260.37	37.64	37.72	0.08	6222.71
MW-8	08/23/21	6260.37	38.27	39.30	1.03	6221.84
MW-8	11/11/21	6260.37	37.95	38.54	0.59	6222.27
MW-8	05/22/22	6260.37	ND	37.60		6222.77
MW-8	08/02/22	6260.37	ND	37.70		6222.67
MW-8	11/06/22	6260.37	ND	37.01		6223.36
MW-9	11/14/17	6261.66	37.75	38.14	0.39	6223.81
MW-9	05/15/18	6261.66	37.16	37.65	0.49	6224.38
MW-9	10/21/18	6261.66	38.34	39.35	1.01	6223.07
MW-9	10/27/18	6261.66	ND	38.55		6223.11
MW-9	05/21/19	6261.66	37.44	37.99	0.55	6224.08
MW-9	11/10/19	6261.66	38.39	39.70	1.31	6222.94
MW-9	05/12/20	6261.66	37.46	38.85	1.39	6223.85
MW-9	08/19/20	6261.66	38.5	40.59	2.09	6222.64
MW-9	11/12/20	6261.66	39.02	40.36	1.34	6222.31
MW-9	03/18/21	6261.66	37.75	38.75	1	6223.66
MW-9	05/19/21	6261.66	38.67	39.58	0.91	6222.76
MW-9	08/23/21	6261.66	39.35	41.04	1.69	6221.89
MW-9	11/11/21	6261.66	39.15	40.10	0.95	6222.27
MW-9	03/21/22	6261.66	38.65	38.95	0.3	6222.94
MW-9	05/22/22	6261.66	38.76	39.30	0.54	6222.77
MW-9	08/02/22	6261.66	38.95	39.51	0.56	6222.57
MW-9	11/06/22	6261.66	38.28	38.29	0.01	6223.38
MW-10	11/14/17	6257.55	ND	33.78		6223.77
MW-10	05/15/18	6257.55	ND	33.13		6224.42
MW-10	10/21/18	6257.55	ND	34.53		6223.02
MW-10	10/27/18	6257.55	ND	34.45		6223.10
MW-10	05/21/19	6257.55	ND	33.44		6224.11
MW-10	11/10/19	6257.55	ND	34.61		6222.94
MW-10	05/12/20	6257.55	ND	34.10		6223.45
MW-10	11/12/20	6257.55	ND	35.25		6222.30
MW-10	05/19/21	6257.55	ND	34.83		6222.72
MW-10	11/11/21	6257.55	ND	35.28		6222.27

TABLE 3 - GROUNDWATER ELEVATION RESULTS

K-27 Line Drip						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-10	05/22/22	6257.55	ND	34.80		6222.75
MW-10	11/06/22	6257.55	ND	34.19		6223.36
MW-12	11/06/22	6264.03	ND	39.54		6224.49
MW-13	11/06/22	6263.58	ND	39.13		6224.45
MW-14	11/06/22	6260.77	ND	35.76		6225.01
TW-1	10/21/18	6261.86	ND	38.82		6223.04
TW-1	10/27/18	6261.86	ND	38.76		6223.10
TW-1	05/21/19	6261.86	ND	37.72		6224.14
TW-1	11/10/19	6261.86	ND	38.84		6223.02
TW-1	05/12/20	6261.86	ND	38.33		6223.53
TW-1	11/12/20	6261.86	ND	39.52		6222.34
TW-1	05/19/21	6261.86	ND	39.09		6222.77
TW-1	11/11/21	6261.86	ND	39.57		6222.29
TW-1	05/22/22	6261.86	ND	39.10		6222.76
TW-1	11/06/22	6261.86	ND	38.50		6223.36

Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = Light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded
Groundwater elevation = Top of Casing elevation (TOC, ft) - Depth to Water [ft] + (LPH thickness [ft) x 0.75). A specific gravity of 0.75 is within the range of gas condensate (https://www.sciencedirect.com/topics/earth-and-planetary-sciences/gas-condensate)

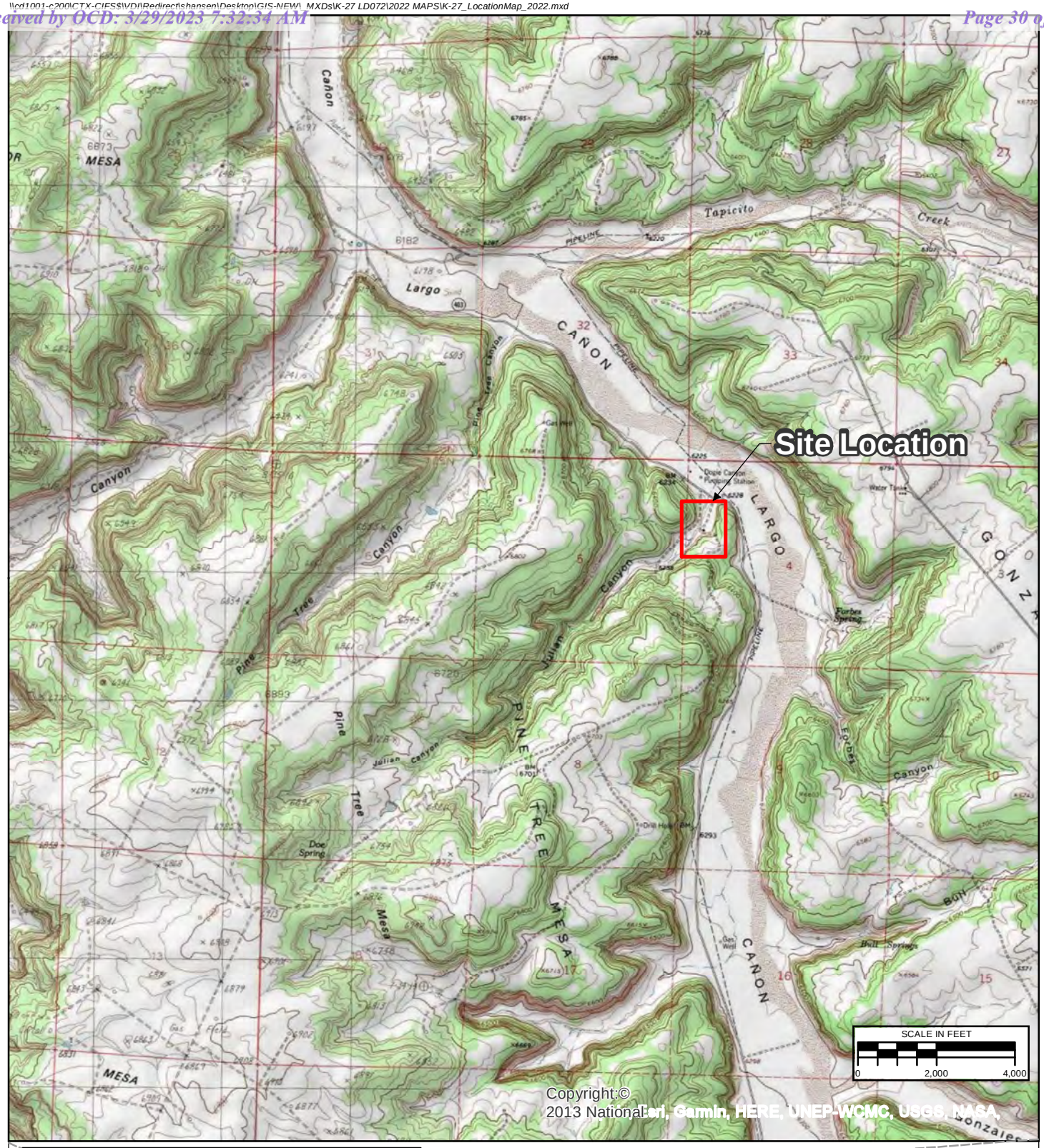
TABLE 4 - SOIL ANALYTICAL RESULTS

K27 Line Drip											
Location (depth in feet bgs)	**Date (mm/dd/yy)**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethylbenzene (mg/kg)**	**Total Xylenes (mg/kg)**	**BTEX Total (mg/kg)**	**GRO C6-10 (mg/kg)**	**DRO C10-28 (mg/kg)**	**MRO C28-35 (mg/kg)**	**TPH (mg/kg)**	**Chloride (mg/kg)**
NMOCD Criteria:		10	NE	NE	NE	50	NE	NE	NE	100	600
MW-2R (32.5-33.5)	09/24/16	0.55	4.2	4.3	23	32.1	1100	190	BRL	**1290**	BRL
MW-3R (31-32)	09/24/16	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-5 (36-37)	09/22/16	BRL	BRL	BRL	BRL	BRL	38	9.4	BRL	47	BRL
MW-6 (36.5-37.5)	09/23/16	0.91	2.2	3.1	21	27.2	640	150	BRL	**790**	BRL
MW-7 (34.5-35.5)	09/23/16	4.0	4.9	7.7	25	41.6	2000	110	BRL	**2110**	BRL
MW-8 (33-34)	09/25/16	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-9 (32-33)	11/05/17	0.0017	BRL	BRL	0.011	0.0127	0.42	7.1	BRL	8	BRL
MW-10 (33-34)	11/06/17	BRL	BRL	BRL	0.0050	BRL	BRL	BRL	BRL	BRL	BRL
MW-12 (26-27)	10/09/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	45
MW-13 (35-36)	10/10/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	110
MW-14 (31-32)	10/10/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	93
SB-1 (22.5-23.5)	09/25/16	BRL	BRL	0.07	0.37	0.44	21	36	BRL	57	BRL
SB-1 (24.5-25.5)	09/25/16	**20**	120	30	150	**320**	6900	220	24	**7144**	BRL
SB-1 (28.5-29.5)	09/25/16	**25**	120	24	120	**289**	6400	120	BRL	**6520**	BRL
SB-11 (30-31)	10/09/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	55
SB-11 (32-33)	10/09/22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
TW-1 (21.5-22.5)	06/23/18	0.27	3.4	4.5	46	**54**	1700	1100	30	**2830**	**950**
TW-1 (27.5-28.5)	06/23/18	0.14	1.9	2.4	15	19	520	670	BRL	**1190**	**810**
TW-1 (32-33)	06/23/18	1.1	7.3	5.9	39	**53**	1500	230	BRL	**1730**	160

Notes:

bgs	Below ground surface
mg/kg	Milligrams per kilogram
BRL	Below Reporting Limits
NE	New Mexico Oil Conservation Division (NMOCD) Standard Not Established
BTEX	Benzene, toluene, ethylbenzene, xylenes
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics
Total BTEX	Sum of the detectable concentrations of individual BTEX constituents
TPH	Total Petroleum Hydrocarbon concentration is calculated by adding GRO, DRO, and MRO and rounded to the nearest mg/kg.
NMOCD Criteria	New Mexico Oil Conservation Division closure criteria for groundwater ≤50 feet below bottom of pit to groundwater less than 10,000 mg/L TDS Results bolded and highlighted yellow exceed their respective NMOCD Standards
Shaded	Soil sample interval appears to be submerged based on available static water level gauging data.

FIGURES



REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-02-14	SAH	SAH	SRV

TITLE

SITE LOCATION

Stantec

PROJECT

K-27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

FIGURE

1

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LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- G A S — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- TEST WELL
- SOIL BORING
- SMA BENCHMARK
- RIGHT OF WAY BOUNDARY

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-12-23	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.:

2

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LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- —X— — FENCE
- G A S — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

DUP = FIELD DUPLICATE SAMPLE
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

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
	2022-09-16	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 22, 2022

PROJECT:
K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 3

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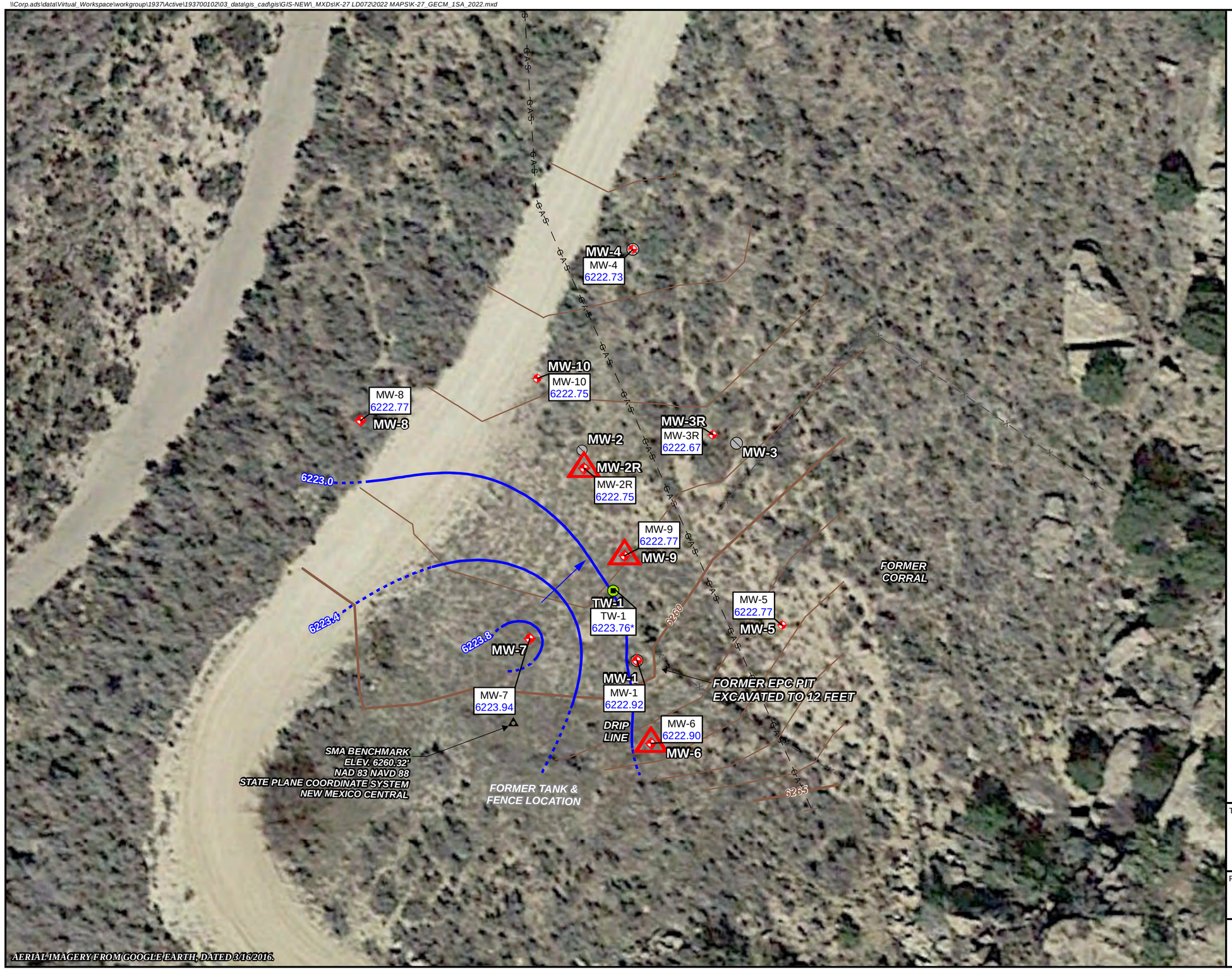

LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- GAS — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

- 6222.95 — GROUNDWATER ELEVATION (CORRECTED FOR LNAPL THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- 6223.0 — CORRECTED 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 CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2022-06-23	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 22, 2022

PROJECT:

K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 4

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LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- G A S — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

DUP = FIELD DUPLICATE SAMPLE
LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

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
	2023-02-01	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 6, 2022

PROJECT:
K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 5

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MW-14
6225.01*
MW-14

MW-4
MW-4
6223.36

MW-10
MW-10
6223.36

MW-8
6223.36
MW-8

MW-3R
6223.93*
MW-3R

MW-3

MW-2
MW-2R
MW-2R
6222.75*

6224.3
MW-13
MW-13
6224.45

MW-9
6223.38
MW-9

TW-1
TW-1
6224.36*

MW-5
6223.39
MW-5

6230

MW-7
MW-7
6224.56

MW-12
6224.49
MW-12

MW-1
MW-1
6222.92*

FORMER EPC PIT
EXCAVATED TO 12 FEET

FORMER
CORRAL

DRIP
LINE

MW-6
6223.37
MW-6

6235

SMA BENCHMARK
ELEV. 6260.32'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

FORMER TANK &
FENCE LOCATION

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 8/16/2016.

LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- G A S — NATURAL GAS LINE
- ABANDONED MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL
- SMA BENCHMARK

NOTES:

- 6222.95 — GROUNDWATER ELEVATION (CORRECTED FOR LNAPL THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- 6223.3 — CORRECTED 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 CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

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

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 6, 2022

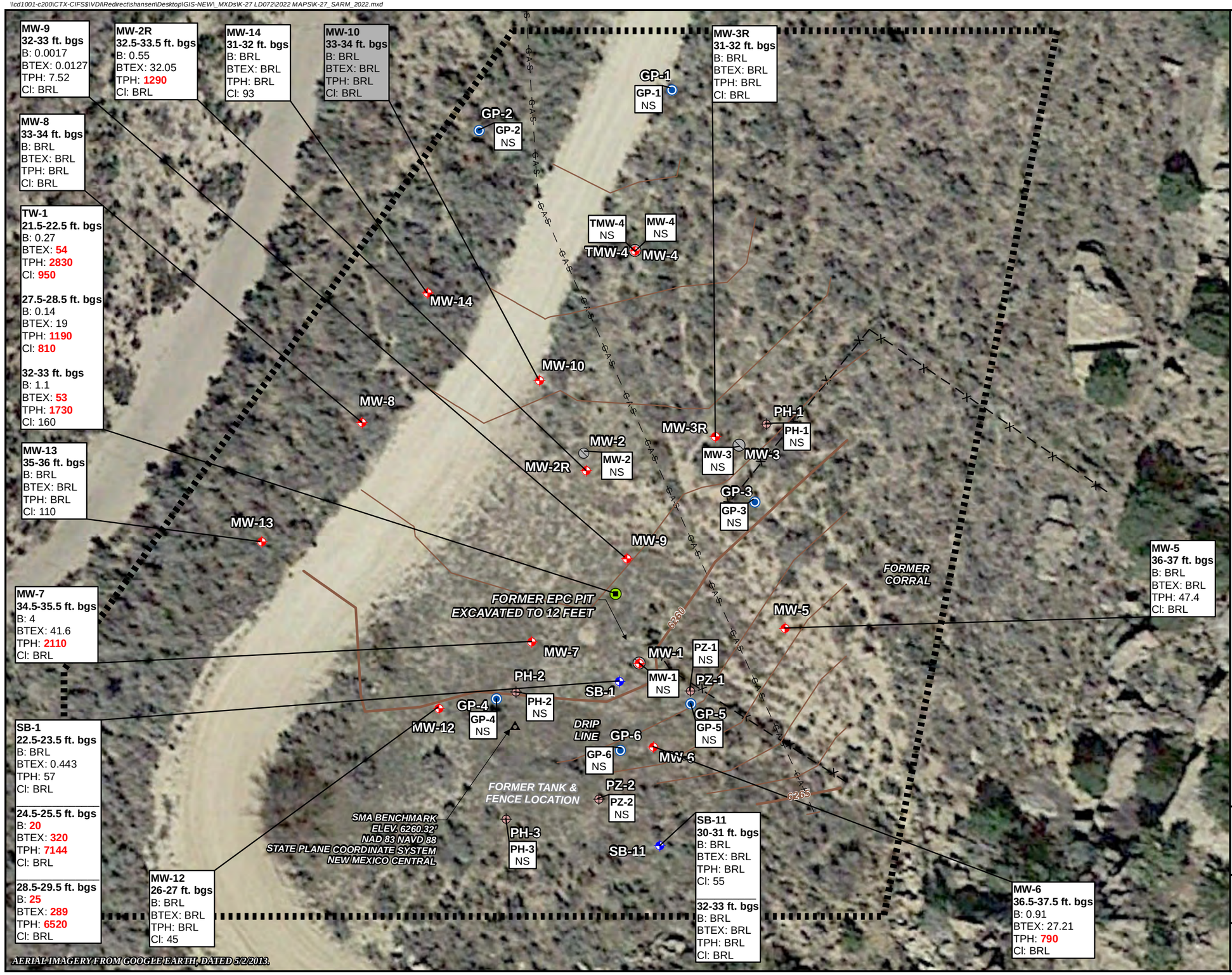
PROJECT:

K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 6

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\K-27 LD072\2022 MAPS\K-27_SARM_2022.mxd



LEGEND:

- 6257 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- FENCE
- GAS — NATURAL GAS LINE
- BLM RIGHT OF WAY BOUNDARY
- ABANDONED MONITORING WELL
- MONITORING WELL
- TEST WELL
- SOIL BORING
- 2006 GEOPROBE BORING
- 1997 PIEZOMETER OR PROBEHOLE
- SMA BENCHMARK

NOTES:

MW-5 SAMPLES COLLECTED 9/22/2016; MW-6 AND MW-7 9/23/2016; MW-2R AND MW-3R 9/24/2016; MW-8 AND SB-1 9/25/2016; MW-9 11/5/2017; MW-10 11/6/2017; TW-1 6/23/2018: SB-11, MW-12, MW-13, AND MW-14 10/10/2022.

UTILITY LOCATIONS ARE APPROXIMATE.

1997 PIEZOMETER AND 2006 SOIL BORING LOCATIONS ARE APPROXIMATE BASED ON HISTORICAL REPORTS

ft. bgs = FEET BELOW GROUND SURFACE
NS = NOT SAMPLED
SHADED RESULTS INDICATE SOIL SAMPLE INTERVAL APPEARS TO BE SUBMERGED BASED ON AVAILABLE STATIC WATER LEVEL GAUGING DATA.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF APPLICABLE NEW MEXICO OIL CONSERVATION DIVISION SOIL CRITERIA FOR THAT ANALYTE.
mg/kg = MILLIGRAM/KILOGRAM
BRL = BELOW REPORTING LIMITS

ANALYTE	NMOCD STANDARDS
B = Benzene	10 mg/kg
BTEX = Benzene, toluene, ethylbenzene, xylenes	50 mg/kg
TPH = Total Petroleum Hydrocarbons	100 mg/kg
Cl = Chloride	600 mg/kg

N

SCALE IN FEET

0 30 60

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-02-14	SAH	SAH	SRV

TITLE:

SOIL ANALYTICAL RESULTS

PROJECT:

K27 LD072
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 7

APPENDICES

APPENDIX A

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Tuesday, March 15, 2022 5:10:25 PM

Hi Cory -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	3/21/2022
Fields A#7A	nAUTOfAB000176	3/22/2022
Fogelson 4-1	nAUTOfAB000192	3/22/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	3/21/2022
James F. Bell #1E	nAUTOfAB000291	3/22/2022
Johnston Fed #4	nAUTOfAB000305	3/23/2022
Johnston Fed #6A	nAUTOfAB000309	3/23/2022
K27 LDO72	nAUTOfAB000316	3/21/2022
Knight #1	nAUTOfAB000324	3/22/2022
Lateral L 40 Line Drip	nAUTOfAB000335	3/23/2022
State Gas Com N #1	nAUTOfAB000668	3/22/2022

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
11313 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: 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 product recovery activities
Date: Monday, July 18, 2022 3:30:01 PM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	7/30/2022
Fields A#7A	nAUTOfAB000176	8/01/2022
Fogelson 4-1	nAUTOfAB000192	8/01/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	7/30/2022
Johnston Fed #4	nAUTOfAB000305	7/29/2022
Johnston Fed #6A	nAUTOfAB000309	7/29/2022
K27 LDO72	nAUTOfAB000316	7/30/2022
Knight #1	nAUTOfAB000324	8/01/2022
State Gas Com N #1	nAUTOfAB000668	8/01/2022

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
11313 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: K-27 LD072 (Incident Number nAUTOfAB000316) - Notice of upcoming field activities
Date: Wednesday, September 28, 2022 3:12:45 PM

Hi Nelson –

This correspondence is to provide notice to the NMOCD of planned monitoring well installation activities at the above-referenced El Paso site. The well installation activities are to begin on October 6, 2022. A work plan for these activities was submitted in the e-permitting portal.

Please feel free to contact Joe Wiley, Project Manager at El Paso, 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

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

Drilling Log

Stantec

Monitoring Well **MW-12**

Page: 1 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Surface Elev. *6261.31 ft* North *1978316.09* East *1278554.63*

Top of Casing *6264.03 ft* Water Level Initial ▽ *6224.31* 10/10/22 00:00 Static ▼ *6224.49* 11/06/22 00:00

Hole Depth *50.0 ft* Screen: Diameter *2 in* Length *20.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *32.9 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow-Stem Auger* Sand Pack *10/20 Silica*

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Rob Malcomson*

Start Date *10/9/2022* Completion Date *10/9/2022* Checked By *S. Varsa*

COMMENTS
0-5' hydro-excavated.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	NM	0%			SM	0-5' hydro-excavated (Sand, silty, brown, dry).	
5	NM				CL	Clay, silty, gray-brown, dry, loose.	
	0.0						
	0.0				CL	Clay with sandy zones, brown, dry, very stiff.	
	0.0	60%					
	NR					No recovery.	
10	NR						
	0.0					Clay with sandy zones, brown, dry, very hard from 13.5-15', some caliche.	
	0.0				CL		
	0.0	100%					
	0.0						
15	0.0						
	0.0					Sand, silty, gray-brown, dry, loose from 15-17.5' and medium dense from 17.5-18.5', fine-grained.	
	0.4				SM		
	0.0	70%					
	NR					No recovery.	
20	NR						
	0.2				ML SM	Silt, sandy, gray-brown, dry, soft to stiff.	
	NR					No recovery.	
	NR	20%					
	NR						
25	NR						
	0.5	MW-12 @ 26-27'				Sand, clayey, gray-brown, dry, loose to medium dense, fine-grained.	
	0.6				SC		
	0.3	60%					
	NR					No recovery.	
30							

Continued Next Page

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Monitoring Well **MW-12**

Page: 2 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30	NR					Clay, sandy, brown, dry, soft to stiff.	
	0.4				CL		
	0.2	50%				No recovery.	
	NR						
	NR						
35	NR					Clay, sandy with thin sand layer at 36.5', brown, moist, soft to stiff, rootlets, calcareous-lined fractures at base.	
	0.0				CL		
▽	0.1					No recovery.	
	NR	40%					
	NR						
40	NR						
	0.0				SP	Sand, gray-brown, wet, medium dense, fine-grained, well-sorted.	
	0.0				CL CH	Clay, sandy seams at 41.5', brown, moist, stiff, plastic.	
	0.0	60%			SC CH	Sand, clayey, gray-brown, wet, medium dense, fine-grained. Clay, trace coarse sand, gray-brown, moist, stiff to very stiff, trace caliche, high plasticity.	
	NR					No recovery.	
45	NR				CL	Clay, gray-brown, moist, soft to stiff.	
	0.1				SP SC	Sand, clayey, gray-brown, wet, medium dense, fine-grained, well-sorted.	
	0.7				CL CH	Clay, some sand at base, gray-brown, moist, soft to stiff, plastic, caliche-lined fracture.	
	NR	50%				No recovery.	
	NR						
50	NR					End of boring = 50'. Set well at 50'.	
55							
60							
65							
70							

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 12 (MW-12) K-27 Line Drip	WELL TAG ID NO.: MW-12	OSE FILE NO(S.): SJ- 4216
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS): DEGREES MINUTES SECONDS

LATITUDE: 1978316.09 Northing N

LONGITUDE: 1278554.63 Easting W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW1/4, NW1/4, Section 4, T25N, R6W

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD-1664	NAME OF LICENSED DRILLER: Brendon Remillard		NAME OF WELL DRILLING COMPANY: Cascade Drilling
DRILLING STARTED: 10-9-22	DRILLING ENDED: 10-9-22	DEPTH OF COMPLETED WELL (FT): 50	BORE HOLE DEPTH (FT): 51
DEPTH WATER FIRST ENCOUNTERED (FT): 36.5			
COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT): 37.2
DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:			
DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem auger			

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	30	8	PVC Riser	Flush Thread	2 inch	Sch 40	N/A
30	50	8	PVC Screen	Flush Thread	2inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	3	8	Concrete completion		Hand Pour
3	25	8	Cement / Grout mix		Tremie
25	28	8	Bentonite chips		Hand Pour
28	50	8	Sand Filter Pack		Hand Pour

FOR OSE INTERNAL USE

FILE NO. | POD NO. | TRN NO.

WR-20 WELL RECORD & LOG (Version 04/30/19)

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	48	48	Silt/Sands	Y (N)	
48	51	3	Cemented Sand stone	(Y) N	0.75
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
[X] PUMP [ ] AIR LIFT [ ] BAILER [ ] OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.75

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:
5" Steel stick-up well vault with 3 protective bollards all painted yellow, Locking well cap

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Brendon Remillard

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Monitoring Well **MW-13**

Page: 1 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Surface Elev. *6260.98 ft* North *1978353.246* East *1278496.257*

Top of Casing *6263.58 ft* Water Level Initial ▽ *6224.18* 10/10/22 00:00 Static ▼ *6224.45* 11/06/22 00:00

Hole Depth *50.0 ft* Screen: Diameter *2 in* Length *20.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *32.6 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow-Stem Auger* Sand Pack *10/20 Silica*

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Rob Malcomson*

Start Date *10/10/2022* Completion Date *10/10/2022* Checked By *S. Varsa*

COMMENTS
0-5' hydro-excavated.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0							
	NM	0%			ML	0-5' hydro-excavated. (Silt and sand, gray-brown, dry	
5	NM						
	0.0				CL	Clay, gray-brown, dry, very stiff, roots.	
	0.1						
	0.0						
	0.0						
10	0.0						
	0.0				ML SC	Silt, and clayey sand, gray-brown, dry, loose sand to stiff silt, fine-grained.	
	0.0						
	0.0	60%					
	NR					No recovery.	
15	NR						
	0.0				SP SC	Sand, clayey with depth, brown-gray, dry, loose, fine-grained.	
	NR					No recovery.	
	NR	30%					
	NR						
20	NR						
	0.0					Weathered sandstone, gray-brown, dry, moderately to weakly cemented, fine-grained, thinly bedded.	
	0.0				SP	Sand, dry, loose, fine-grained, well-sorted.	
	NR	40%				No recovery.	
	NR						
25	0.0						
	0.0				SP	Sand, brown, dry, loose to medium dense.	
	0.0						
	NR	60%			CL ML	Clay and silt, sandy, gray-brown, dry, stiff, some caliche.	
	NR					No recovery.	
30							

Continued Next Page

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Monitoring Well **MW-13**

Page: 2 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30	NR					Sand, silty, gray-brown, dry, loose to medium dense, fine-grained.	
	0.0				SM		
	0.0						
	0.0	80%			SM	Sand, silty, gray-brown, dry, medium dense, fine-grained.	
	0.1					No recovery.	
35	NR	MW-13 @ 35-36'			CL	Clay, silty, gray-brown, moist, stiff, medium plasticity, rootlets.	
	0.6				SP	Sand, brown, moist at 36.8', loose, fine-grained becoming medium with depth.	
	0.0					No recovery.	
	NR	40%					
	NR						
40	NR				SP	Sand, gray-brown, wet, medium dense, medium-grained.	
	0.0				CL	Clay, sandy, gray-brown, wet, stiff.	
	0.0						
	0.1	50%				No recovery.	
	NR						
45	NR				CL	Clay, sandy, gray-brown, wet, soft.	
	0.0						
	0.0						
	0.0	100%			SP	Sand, clayey, gray-brown, loose to medium dense, fine-grained.	
	0.0						
	0.0						
50	0.0				CL CH	Clay, gray-brown, moist, stiff, plastic.	
						End of boring = 50'. Set well at 50'.	
55							
60							
65							
70							

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 13 (MW-13) K-27 Line Drip	WELL TAG ID NO.: MW-13	OSE FILE NO(S).: SJ- 4216
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS): DEGREES MINUTES SECONDS
LATITUDE: 1978353.25 Northing N
LONGITUDE: 1278496.26 Easting W
* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW1/4, NW1/4, Section 4, T25N, R6W

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD-1664	NAME OF LICENSED DRILLER: Brendon Remillard		NAME OF WELL DRILLING COMPANY: Cascade Drilling
DRILLING STARTED: 10-10-22	DRILLING ENDED: 10-10-22	DEPTH OF COMPLETED WELL (FT): 50 / BORE HOLE DEPTH (FT): 51	DEPTH WATER FIRST ENCOUNTERED (FT): 36.5
COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT): 36.8
DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:			
DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem augers			

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	30	8	PVC Riser	Flush Thread	2 inch	Sch 40	N/A
30	50	8	PVC Screen	Flush Thread	2 inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	3	8	Concrete Completion		Hand Pour
3	25	8	Cement / Grout mix		Tremmie
25	28	8	Bentonite chips		Hand Pour
28	50	8	Sand Filter pack		Hand Pour

Brendon Remillard

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)
FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	51	51	Silt/Sands	(Y) N	0.75
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
[X] PUMP [ ] AIR LIFT [ ] BAILER [ ] OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.75

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:
5" Steel stick-up well vault with 3 protective bollards all painted yellow, Locking well cap

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Brendon Remillard

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Monitoring Well **MW-14**

Page: 1 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Surface Elev. *6257.49 ft* North *1978461.711* East *1278556.487*

Top of Casing *6260.77 ft* Water Level Initial ▽ *6224.09* 10/11/22 00:00 Static ▼ *6225.01* 11/06/22 00:00

Hole Depth *50.0 ft* Screen: Diameter *2 in* Length *20.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *31.9 ft* Type *PVC*

Drill Co. *Cascade Drilling* Drilling Method *Hollow-Stem Auger* Sand Pack *10/20 Silica*

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Rob Malcomson*

Start Date *10/7/2022* Completion Date *10/11/2022* Checked By *S. Varsa*

COMMENTS
0-5' hydro-excavated.

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	NM	0%			CL ML	0-5' hydro-excavated. (Silt and clay, gary-brown).	
5	0.0				CL	Clay, brown, dry, stiff.	
	0.0				SC SM	Sand, clayey, silty, gray-brown, dry, loose to medium dense, fine-grained.	
	0.0						
	NR	60%				No recovery.	
	NR						
10	NR				SM	Sand, silty, tan-brown, dry, loose, fine-grained.	
	0.5						
	0.4						
	NR	40%				No recovery.	
	NR						
15	NR				SM	Sand, silty becoming sandy silt in bottom 1-inch, tan-brown, dry, loose	
	0.0					sand to stiff silt at base, fine-grained, some caliche.	
	NR					No recovery.	
	NR	20%					
	NR						
20	NR				SW	Sand, tan to brown, dry, loose, weakly to moderately cemented with depth,	
	0.1					fine to medium-grained.	
	0.2						
	NR	50%				No recovery.	
	NR						
25	NR				SC	Sand, clayey, silty, gray-tan, dry, loose to dense, weakly to moderately	
	0.4					cemented.	
	0.1				CL	Clay, brown, dry, stiff to hard, rootlets.	
	0.7	80%			SC	Sand, clayey, silty, gray-tan, dry, loose to dense, weakly to moderately	
	0.2					cemented.	
						No recovery.	
30							

Continued Next Page

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Monitoring Well **MW-14**

Page: 2 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30	NR				SC	Sand, clayey, tan, dry, weakly cemented, very fine-grained.	
	0.5				SC	Sand, clayey, loose, no cementation, fine-grained.	
	1.0				SP	Sand, dry, loose to medium dense.	
	0.9	50% MW-14 @ 31-32'			SC	Sand, clayey, moist, medium dense, fine-grained.	
	NR					No recovery.	
35	NR				SW	Sand, slightly clayey and silty, gray-brown, wet, medium dense, fine to coarse-grained, trace subrounded fine gravel.	
	0.2						
	0.2					No recovery.	
	NR	40%					
	NR						
40	NR				SC	Sand, clayey, gray-brown, wet, loose to medium dense, fine-grained.	
	0.1						
	0.2						
	0.2	100%					
	0.3				CL	Clay, sandy, wet, soft to stiff.	
45	0.2				SW	Sand, gray-brown, wet, medium dense, fine to medium-grained.	
	0.5						
	0.6						
	0.3	100%					
	0.2				CL	Clay, sandy, gray-brown, wet, soft.	
50	0.1						
						End of boring = 50'. Set well at 50'.	
55							
60							
65							
70							

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 14 (MW-14) K-27 Line Drip	WELL TAG ID NO.: MW-14	OSE FILE NO(S).: SJ- 4216
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	1978461.71	Northing		N
LONGITUDE	1278556.49	Easting		W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW1/4, NW1/4, Section 4, T25N, R6W

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY
WD-1664	Brandon Remillard			Cascade Drilling
DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10-11-22	10-11-22	50	51	32.5

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): 33.4

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem augers

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	30	8	PVC Riser	Flush Thread	2 inch	Sch 40	N/A
30	50	8	PVC Screen	Flush Thread	2 inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	8	Concrete Completion		Hand Pour
2	25	8	Cement/Grout mix		Tremmie
25	28	8	Bentonite Chips		Hand Pour
28	50	8	Sand filter pack		Hand Pour

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	42	42	Silt/Sands	Y (N)	
42	51	9	Consolidated sand stone	(Y) N	0.75
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
[X] PUMP [ ] AIR LIFT [ ] BAILER [ ] OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.75

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:
5" Steel stick-up well vault with 3 protective bollards all painted yellow, Locking well cap

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Brendon Remillard

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Soil Boring **SB-11**

Page: 1 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Surface Elev. *6265.00 ft* North *1978278.935* East *1278613.003*

Top of Casing *NA* Water Level Initial ▽ *Dry* Static ▼

Hole Depth *33.2 ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *8.25 in* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Cascade Drilling* Drilling Method *Hollow-Stem Auger* Sand Pack *NA*

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Rob Malcomson*

Start Date *10/7/2022* Completion Date *10/9/2022* Checked By *S. Varsa*

COMMENTS
0-5' hydro-excavated. Nearby MW-6 had a gauged depth to water of 40.33 feet (6220.82 feet ASL elevation).

Bentonite Chips | Bentonite Granules | Grout | Bentonite Pellets | Sand Pack | PP Sand Pack

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
0	NM	0%			SM	0-5' hydro-excavated. (Sand, silty, brown, dry).
5	0.0					
	0.0				SM	Sand, silty, brown, dry, loose.
	0.0					
	NR	60%				No recovery.
	NR					
10	0.0				SM	Same as above (Sand, silty, brown, dry, loose).
	0.0					Weathered sandstone, light tan, dry, loose to very dense/hard, fine-grained.
	0.0	70%				
	0.0					No recovery.
	NR					
15	NR					Weathered sandstone, tan to yellow-brown, dry, moderately to strongly cemented, fine-grained, broken from 15-16' and massive from 16-19'.
	0.0					
	0.0					
	0.0	80%				
	0.0					No recovery.
	NR					
20	0.0					Weathered sandstone, yellow-orange, tan-brown, dry, moderately cemented, fine-grained, thinly bedded.
	0.0					Shale, some sandstone layers, gray, orange and brown zones, thinly bedded.
	0.0	90%				Claystone/siltstone, sandy, gray to buff-gray, dry, hard, massive.
	0.0					
	NR					No recovery.
25	0.1					Same as above (Claystone/siltstone, sandy, gray to buff-gray, dry, hard, massive).
	0.0					Sandstone, brown, tan, some black coloring, dry, strongly cemented, fine-grained, massive, fractures from 25.5-27.5', thin coal layer at 26.8'.
	0.0	60%				
	NR					No recovery.
30						

Continued Next Page

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

Drilling Log

Stantec

Soil Boring **SB-11**

Page: 2 of 2

Project *K-27 Line Drip 072* Owner *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193709204*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.
						Continued
30	0.4					Sandstone, silty/clayey, dark yellow-brown, weakly to moderately cemented, fine-grained, thinly bedded.
	0.0					
	0.0	100% SB-12 @ 30-31'				Sandstone, tan to yellowish-tan, orange, dry, moderately to strongly cemented, fine to very fine-grained. Auger refusal at 33.2'.
	NR	SB-12 @ 32-33'				
35						End of boring = 33.2'.
40						
45						
50						
55						
60						
65						
70						

Drilling Log 2018 K27 LOGS.GPJ MWH IA.GDT 12/8/22

APPENDIX C

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW-11 (POD 11) (NMOSE File No. SJ-4216)

Well owner: El Paso CGP Company, LLC; Attn: Joseph Wiley Phone No.: 713-420-3475

Mailing address: 1001 Louisiana Street, Room 956I

City: Houston State: TX Zip code: 7702

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Cascade Drilling LP

2) New Mexico Well Driller License No.: WD-1664 Expiration Date: 01-31-23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Brendon Remillard

4) Date well plugging began: 10/5/2022 Date well plugging concluded: 10/5/2022

5) State Plane Well Location: NAD83: NM Central (Feet)

Northing: 1978278.93 (ft.) (SPC zone NM Central 3002)
Easting: 1278613.00 (ft.) (SPC zone NM Central 3002)

6) Depth of well confirmed at initiation of plugging as: 33 ft below ground level (bgl), by the following manner: Measuring Tape

7) Static water level measured at initiation of plugging: dry at 33 ft. bgs

8) Date well plugging plan of operations was approved by the State Engineer: 9/15/2022

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

During drilling of MW-11 (POD 11), auger refusal was encountered before reaching the planned total depth; therefore, no well was installed, and the borehole drilled for MW-11 (POD 11) was plugged.

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	Portland Cement grout with 5% bentonite powder additive.	50		Gravity from surface	Permitted well installation borehole plugged due to auger refusal short of proposed total depth.

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Brendon Rumford, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

12-16-22
Date

Version: September 8, 2009
Page 2 of 2

APPENDIX D

30 Years of Environmental Health and Safety Excellence

BASIN DISPOSAL

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 824149
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 3/22/22
DEL. TKT#.
GENERATOR: El Paso CGP Com. LLC
BILL TO: El Paso CGP Comll&
HAULING CO. Oil Conservation Division
DRIVER: Sean Clary (Print Full Name)
ORDERED BY: Joe W
CODES:

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

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		James F. Bell #1E/Fields A#7A	1	70			.70	
2		STATE GAS COM N#1/K27L0072					'22 MAR 22 6:15PM	
3		Fogelson 4-1/Knight#1						
4		GCU 124E/Miles Fed #1A						
5		Corrales Mesa #2						

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

☒ Approved ☐ Denied ATTENDANT SIGNATURE _____

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envirotech

Bill of Lading

MANIFEST # 73058
GENERATOR El Paso
POINT OF ORIGIN Rio Vista Comp Station
TRANSPORTER Envirotech
DATE 05-24-22 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.			938	1445	
					3					
					14073-0059 (CCLC)		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

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envirotech

SPECIAL WASTE MANIFEST		Manifest Document No. SW - 01140	Page 1 of

GENERATOR

Generator's Name	Generator's Address	Generator's Telephone No.
EIPASO CGP	1001 Louisiana St. Houston, Tx 77002	

Origin of Special Waste (Project or Spill Location): Canada Mesa #2, Miles Fed #1A, Knight #1 Fields A #7A, Fogelson 4-1 GCU #124E, State Gas Com H #1, Johnston Fed #4, Johnston Fed #6A

Transporter #1 Company Name	Address	Telephone No.
Envirotech	5796 US Hwy 64 Farmington, NM 87401	505-632-0615
Transporter #2 Company Name	Address	Telephone No.

Destination Facility Name/Site Address	Facility ID (Permit) Number	Telephone No.
Envirotech LF #2 43 Road 7175 Bloomfield NM 87413	NM01-0011	505-632-0615

Type and Proper Name of Special Waste	Container(s) No.	Container(s) Type	Total Quantity	Unit Wt/Vol	
Petroleum Contaminated liquid	1	B	~~100~~ 55	gal	

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:
Greg Crabtree AS Agent		8/3/22

TRANSPORTER

Transporter 1 Acknowledgement of Receipt of Special Waste

Printed/Typed Name:	Signature:	Date:
Colton Tohn		8/3/22

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:
Cary Robinson		08.03.22

envirotech

Bill of Lading

MANIFEST # 75750
GENERATOR Kinder morgan
POINT OF ORIGIN Lateral K27
TRANSPORTER Riley
DATE 10-7-22 JOB # 14013-0067

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	Soil	-	—	3	—	—	17032	12:00	C. Gonzalez
					3					
							Bill 5 yds min			

SCANNED

RESULTS		
-294	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE

NOTES Hydrovaced Pot holes

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

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

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BOL# 75750

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10-7-22 TIME 12:00

Attach test strip here

CUSTOMER Kinder Morgan

SITE Lateral K 27

DRIVER J. Griffin

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST -294 mg/Kg

ACCEPTED YES _____ NO _____

PAINT FILTER TEST Time started 12:00 Time completed 12:16

PASS YES _____ NO _____

SAMPLER/ANALYST _____

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

Bill of Lading

MANIFEST # 75841
GENERATOR Kinder Morgan
POINT OF ORIGIN Lateral K 27
TRANSPORTER Envirotech
DATE 10/11/2022 JOB # 14073-0067

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	LF 2-5	Contaminated Soil	A33	3	–	–		964	1745	KL
2	B+E	Contaminated H20	–	–	2	–		964	1745	KL
				3	2					

Bill 1.25 hrs callout

SCANNED

RESULTS			LANDFARM EMPLOYEE	NOTES
-298	CHLORIDE TEST	1		2 Boxes 1 Tote
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	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 Rob Malcomson Phone

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

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BOL# 75841

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10/11/2022 TIME 1745

CUSTOMER Kinder Morgan

SITE Lateral K-27

DRIVER Kholeton Sanchez

SAMPLE Soil Straight ✓ With Dirt ____

CHLORIDE TEST -298 mg/Kg

ACCEPTED YES ✓ NO ____

PAINT FILTER TEST Time started 1745 Time completed ____

PASS YES ✓ NO ____

SAMPLER/ANALYST ____

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

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 Mtz
						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 _____

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BOL# 76385

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-7-22 TIME 8:45 Am

CUSTOMER Kinder Morgan

SITE Pit Sites

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

APPENDIX E

envirotech

Bill of Lading

MANIFEST # 75750
GENERATOR Kinder morgan
POINT OF ORIGIN Lateral K27
TRANSPORTER Riley
DATE 10-7-22 JOB # 14013-0067

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	Soil	-	—	3	—	—	17032	12:00	C. Gonzalez
					3					
							Bill 5 yds min		SCANNED	

RESULTS			LANDFARM EMPLOYEE	NOTES
-294	CHLORIDE TEST	1		Hydrovaced Pot holes
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	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

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BOL# 75750

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10-7-22 TIME 12:00

Attach test strip here

CUSTOMER Kinder Morgan

SITE Lateral K 27

DRIVER C. Griffin

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST -294 mg/Kg

ACCEPTED YES _____ NO _____

PAINT FILTER TEST Time started 12:00 Time completed 12:16

PASS YES _____ NO _____

SAMPLER/ANALYST _____

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

Bill of Lading

MANIFEST # 75841
GENERATOR Kinder Morgan
POINT OF ORIGIN Lateral K 27
TRANSPORTER Envirotech
DATE 10/11/2022 JOB # 14073-0067

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	LF 2-5	Contaminated Soil	A33	3	–	–		964	1745	KL
2	B+E	Contaminated H20	–	–	2	–		964	1745	KL
				3	2					

Bill 1.25 hrs callout

SCANNED

RESULTS			LANDFARM EMPLOYEE	NOTES
-298	CHLORIDE TEST	1		2 Boxes 1 Tote
	CHLORIDE TEST		☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out	
	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 Rob Malcomson Phone

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

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envirotech

BOL# 75841

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10/11/2022 TIME 1745

CUSTOMER Kinder Morgan

SITE Lateral K-27

DRIVER Kholeton Sanchez

SAMPLE Soil Straight ✓ With Dirt ____

CHLORIDE TEST -298 mg/Kg

ACCEPTED YES ✓ NO ____

PAINT FILTER TEST Time started 1745 Time completed ____

PASS YES ✓ NO ____

SAMPLER/ANALYST ____

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

APPENDIX F

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-220381-1
Client Project/Site: K27 LD072.00
Revision: 1

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

Attn: Steve Varsa

Authorized for release by:
6/24/2022 10:58:05 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: K27 LD072.00

Laboratory Job ID: 400-220381-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Job ID: 400-220381-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-220381-1

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 1.2º C.

Revision
The samples for this project were stored and shipped with samples collected from the Canada Mesa #2 site (project 400-218622), which included a trip blank. The trip blank results from 400-218622 are applicable to the samples collected for this project site (No Detections).

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-1 — Lab Sample ID: 400-220381-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	180		1.0		ug/L	1		8260C	Total/NA
Toluene	21		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	28		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3R — Lab Sample ID: 400-220381-2

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 400-220381-3

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 400-220381-4

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 400-220381-5

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 400-220381-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		1.0		ug/L	1		8260C	Total/NA
Toluene	2.6		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	4.0		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	49		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 400-220381-7

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-220381-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PEN
5030B	Purge and Trap	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: K27 LD072.00

Job ID: 400-220381-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-220381-1	MW-1	Water	05/22/22 11:40	05/24/22 09:02
400-220381-2	MW-3R	Water	05/22/22 11:00	05/24/22 09:02
400-220381-3	MW-4	Water	05/22/22 11:10	05/24/22 09:02
400-220381-4	MW-5	Water	05/22/22 10:50	05/24/22 09:02
400-220381-5	MW-7	Water	05/22/22 11:20	05/24/22 09:02
400-220381-6	MW-8	Water	05/22/22 11:50	05/24/22 09:02
400-220381-7	MW-10	Water	05/22/22 10:40	05/24/22 09:02
400-220381-8	DUP-01	Water	05/22/22 12:20	05/24/22 09:02

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-1
Date Collected: 05/22/22 11:40
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-1
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	180		1.0		ug/L			06/03/22 19:11	1
Toluene	21		1.0		ug/L			06/03/22 19:11	1
Ethylbenzene	1.3		1.0		ug/L			06/03/22 19:11	1
Xylenes, Total	28		10		ug/L			06/03/22 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 119*		*06/03/22 19:11*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*06/03/22 19:11*	*1*
Toluene-d8 (Surr)	*110*		*64 - 132*		*06/03/22 19:11*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-3R

Date Collected: 05/22/22 11:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-2

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			05/27/22 21:28	1
Toluene	<1.0		1.0		ug/L			05/27/22 21:28	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 21:28	1
Xylenes, Total	<10		10		ug/L			05/27/22 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*72 - 119*		*05/27/22 21:28*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*05/27/22 21:28*	*1*
Toluene-d8 (Surr)	*89*		*64 - 132*		*05/27/22 21:28*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-4

Date Collected: 05/22/22 11:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-3

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			05/27/22 21:55	1
Toluene	<1.0		1.0		ug/L			05/27/22 21:55	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 21:55	1
Xylenes, Total	<10		10		ug/L			05/27/22 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*72 - 119*		*05/27/22 21:55*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*05/27/22 21:55*	*1*
Toluene-d8 (Surr)	*83*		*64 - 132*		*05/27/22 21:55*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-5

Date Collected: 05/22/22 10:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-4

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			05/27/22 22:21	1
Toluene	<1.0		1.0		ug/L			05/27/22 22:21	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 22:21	1
Xylenes, Total	<10		10		ug/L			05/27/22 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*72 - 119*		*05/27/22 22:21*	*1*
Dibromofluoromethane	*94*		*75 - 126*		*05/27/22 22:21*	*1*
Toluene-d8 (Surr)	*89*		*64 - 132*		*05/27/22 22:21*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-7

Date Collected: 05/22/22 11:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-5

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			05/27/22 22:48	1
Toluene	<1.0		1.0		ug/L			05/27/22 22:48	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 22:48	1
Xylenes, Total	<10		10		ug/L			05/27/22 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*72 - 119*		*05/27/22 22:48*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*05/27/22 22:48*	*1*
Toluene-d8 (Surr)	*90*		*64 - 132*		*05/27/22 22:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-8
Date Collected: 05/22/22 11:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-6
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			06/03/22 19:37	1
Toluene	**2.6**		1.0		ug/L			06/03/22 19:37	1
Ethylbenzene	**4.0**		1.0		ug/L			06/03/22 19:37	1
Xylenes, Total	**49**		10		ug/L			06/03/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 119*		*06/03/22 19:37*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*06/03/22 19:37*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*06/03/22 19:37*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-10

Date Collected: 05/22/22 10:40
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-7

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			06/03/22 20:04	1
Toluene	<1.0		1.0		ug/L			06/03/22 20:04	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 20:04	1
Xylenes, Total	<10		10		ug/L			06/03/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 119*		*06/03/22 20:04*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*06/03/22 20:04*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*06/03/22 20:04*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: DUP-01

Date Collected: 05/22/22 12:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-8

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			05/27/22 23:15	1
Toluene	<1.0		1.0		ug/L			05/27/22 23:15	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 23:15	1
Xylenes, Total	<10		10		ug/L			05/27/22 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*72 - 119*		*05/27/22 23:15*	*1*
Dibromofluoromethane	*110*		*75 - 126*		*05/27/22 23:15*	*1*
Toluene-d8 (Surr)	*87*		*64 - 132*		*05/27/22 23:15*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-1
Date Collected: 05/22/22 11:40
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-1
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	579929	06/03/22 19:11	BEP	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: MW-3R
Date Collected: 05/22/22 11:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-2
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	579216	05/27/22 21:28	BPO	TAL PEN
	Instrument ID: Tesla									

Client Sample ID: MW-4
Date Collected: 05/22/22 11:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-3
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	579216	05/27/22 21:55	BPO	TAL PEN
	Instrument ID: Tesla									

Client Sample ID: MW-5
Date Collected: 05/22/22 10:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-4
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	579216	05/27/22 22:21	BPO	TAL PEN
	Instrument ID: Tesla									

Client Sample ID: MW-7
Date Collected: 05/22/22 11:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-5
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	579216	05/27/22 22:48	BPO	TAL PEN
	Instrument ID: Tesla									

Client Sample ID: MW-8
Date Collected: 05/22/22 11:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-6
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	579929	06/03/22 19:37	BEP	TAL PEN
	Instrument ID: CH_WASP									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

Client Sample ID: MW-10
Date Collected: 05/22/22 10:40
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-7
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	579929	06/03/22 20:04	BEP	TAL PEN
	Instrument ID: CH_WASP									

Client Sample ID: DUP-01
Date Collected: 05/22/22 12:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220381-8
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	579216	05/27/22 23:15	BPO	TAL PEN
	Instrument ID: Tesla									

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: K27 LD072.00

Job ID: 400-220381-1

GC/MS VOA

Analysis Batch: 579216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220381-2	MW-3R	Total/NA	Water	8260C	
400-220381-3	MW-4	Total/NA	Water	8260C	
400-220381-4	MW-5	Total/NA	Water	8260C	
400-220381-5	MW-7	Total/NA	Water	8260C	
400-220381-8	DUP-01	Total/NA	Water	8260C	
MB 400-579216/5	Method Blank	Total/NA	Water	8260C	
LCS 400-579216/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220391-A-11 MS	Matrix Spike	Total/NA	Water	8260C	
400-220391-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 579929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220381-1	MW-1	Total/NA	Water	8260C	
400-220381-6	MW-8	Total/NA	Water	8260C	
400-220381-7	MW-10	Total/NA	Water	8260C	
MB 400-579929/41	Method Blank	Total/NA	Water	8260C	
LCS 400-579929/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220328-D-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-220328-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

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

Lab Sample ID: MB 400-579216/5
Matrix: Water
Analysis Batch: 579216

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			05/27/22 15:14	1
Toluene	<1.0		1.0		ug/L			05/27/22 15:14	1
Ethylbenzene	<1.0		1.0		ug/L			05/27/22 15:14	1
Xylenes, Total	<10		10		ug/L			05/27/22 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*72 - 119*		*05/27/22 15:14*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*05/27/22 15:14*	*1*
Toluene-d8 (Surr)	*91*		*64 - 132*		*05/27/22 15:14*	*1*

Lab Sample ID: LCS 400-579216/1002
Matrix: Water
Analysis Batch: 579216

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	57.2		ug/L		114	70 - 130		
Toluene			50.0	53.4		ug/L		107	70 - 130		
Ethylbenzene			50.0	57.1		ug/L		114	70 - 130		
Xylenes, Total			100	116		ug/L		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*78*		*72 - 119*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*92*		*64 - 132*

Lab Sample ID: 400-220391-A-11 MS
Matrix: Water
Analysis Batch: 579216

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	2.9		50.0	59.9		ug/L		114	56 - 142		
Toluene	<1.0		50.0	49.2		ug/L		98	65 - 130		
Ethylbenzene	<1.0		50.0	49.0		ug/L		98	58 - 131		
Xylenes, Total	<10		100	96.5		ug/L		97	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*79*		*72 - 119*
Dibromofluoromethane	*89*		*75 - 126*
Toluene-d8 (Surr)	*90*		*64 - 132*

Lab Sample ID: 400-220391-A-11 MSD
Matrix: Water
Analysis Batch: 579216

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	2.9		50.0	55.6		ug/L		105	56 - 142	7	30
Toluene	<1.0		50.0	46.5		ug/L		93	65 - 130	6	30
Ethylbenzene	<1.0		50.0	48.3		ug/L		97	58 - 131	1	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

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

Lab Sample ID: 400-220391-A-11 MSD
Matrix: Water
Analysis Batch: 579216

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	97.7		ug/L		98	59 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*76*		*72 - 119*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*91*		*64 - 132*

Lab Sample ID: MB 400-579929/41
Matrix: Water
Analysis Batch: 579929

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/03/22 10:25	1
Toluene	<1.0		1.0		ug/L			06/03/22 10:25	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 10:25	1
Xylenes, Total	<10		10		ug/L			06/03/22 10:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*06/03/22 10:25*	*1*
Dibromofluoromethane	*112*		*75 - 126*		*06/03/22 10:25*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*06/03/22 10:25*	*1*

Lab Sample ID: LCS 400-579929/1002
Matrix: Water
Analysis Batch: 579929

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	53.9		ug/L		108	70 - 130		
Toluene			50.0	49.6		ug/L		99	70 - 130		
Ethylbenzene			50.0	52.0		ug/L		104	70 - 130		
Xylenes, Total			100	99.6		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*72 - 119*
Dibromofluoromethane	*103*		*75 - 126*
Toluene-d8 (Surr)	*96*		*64 - 132*

Lab Sample ID: 400-220328-D-3 MS
Matrix: Water
Analysis Batch: 579929

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	47.9		ug/L		94	56 - 142		
Toluene	<1.0		50.0	38.9		ug/L		78	65 - 130		
Ethylbenzene	<1.0		50.0	36.0		ug/L		72	58 - 131		
Xylenes, Total	<10	F1	100	68.8		ug/L		69	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-220381-1

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

Lab Sample ID: 400-220328-D-3 MS
Matrix: Water
Analysis Batch: 579929

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	93		72 - 119
Dibromofluoromethane	102		75 - 126
Toluene-d8 (Surr)	94		64 - 132

Lab Sample ID: 400-220328-D-3 MSD
Matrix: Water
Analysis Batch: 579929

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	44.1		ug/L		87	56 - 142	8	30
Toluene	<1.0		50.0	34.2		ug/L		68	65 - 130	13	30
Ethylbenzene	<1.0		50.0	28.8		ug/L		58	58 - 131	22	30
Xylenes, Total	<10	F1	100	54.7	F1	ug/L		55	59 - 130	23	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	94		72 - 119
Dibromofluoromethane	100		75 - 126
Toluene-d8 (Surr)	98		64 - 132

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 Clay)	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-111403-37677.1
Client Contact: Steve Varsa	Phone: 303 291 2239	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040029			
Email: steve.varsa@stantec.com	WO #: ERG-STN-05-06-22-SAH-09			
Project Name: K27 LD072.00	Project #: 40005479			
Site: K27	SSOW#:			

400-220381 COC

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)	8260C - BTEX 8260 (A)	8260C - BTEX 8260 (unpreserved) (N)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
MW-1	5/22/2022	1140	G	Water			3		3	
MW-3R	5/22/2022	1100	G	Water				3	3	
MW-4	5/22/2022	1110	G	Water				2	2	
MW-5	5/22/2022	1050	G	Water				3	3	
MW-7	5/22/2022	1120	G	Water				2	2	
MW-8	5/22/2022	1150	G	Water			3		3	
MW-10	5/22/2022	1040	G	Water			3		3	
DUP-01	5/22/2022	1220	G	Water				2	2	
				Water				2		
				Water						
				Water						

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
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Date/Time:	Company
5/24/22 0902	EETS
Date/Time:	Company
Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.2°C IR9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220381-1

Login Number: 220381 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Perez, Trina M

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.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C IR-9
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: 400-220381-1
Project/Site: K27 LD072.00

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	06-30-22
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 2:37:40 PM

JOB DESCRIPTION

K27 LD072.00

JOB NUMBER

400-228566-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

my EOL

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Laboratory Job ID: 400-228566-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Job ID: 400-228566-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228566-1

Comments
No additional comments.

Receipt
The samples were received on 11/8/2022 9:32 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-6 (400-228566-5). 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: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: TB-01 Lab Sample ID: 400-228566-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-228566-2

No Detections.

Client Sample ID: MW-1 Lab Sample ID: 400-228566-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	190		1.0		ug/L	1		8260C	Total/NA
Toluene	88		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	3.6		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	120		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-3R Lab Sample ID: 400-228566-4

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-228566-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	15		5.0		ug/L	5		8260C	Total/NA
Xylenes, Total	680		50		ug/L	5		8260C	Total/NA

Client Sample ID: MW-7 Lab Sample ID: 400-228566-6

No Detections.

Client Sample ID: MW-8 Lab Sample ID: 400-228566-7

No Detections.

Client Sample ID: MW-10 Lab Sample ID: 400-228566-8

No Detections.

Client Sample ID: MW-12 Lab Sample ID: 400-228566-9

No Detections.

Client Sample ID: MW-13 Lab Sample ID: 400-228566-10

No Detections.

Client Sample ID: MW-14 Lab Sample ID: 400-228566-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET PEN
5030B	Purge and Trap	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: K27 LD072.00

Job ID: 400-228566-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228566-1	TB-01	Water	11/06/22 11:30	11/08/22 09:32
400-228566-2	DUP-01	Water	11/06/22 12:00	11/08/22 09:32
400-228566-3	MW-1	Water	11/06/22 11:56	11/08/22 09:32
400-228566-4	MW-3R	Water	11/06/22 12:05	11/08/22 09:32
400-228566-5	MW-6	Water	11/06/22 12:11	11/08/22 09:32
400-228566-6	MW-7	Water	11/06/22 11:47	11/08/22 09:32
400-228566-7	MW-8	Water	11/06/22 12:22	11/08/22 09:32
400-228566-8	MW-10	Water	11/06/22 12:30	11/08/22 09:32
400-228566-9	MW-12	Water	11/06/22 12:38	11/08/22 09:32
400-228566-10	MW-13	Water	11/06/22 12:42	11/08/22 09:32
400-228566-11	MW-14	Water	11/06/22 12:52	11/08/22 09:32

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: TB-01
Date Collected: 11/06/22 11:30
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-1
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			11/10/22 19:42	1
Toluene	<1.0		1.0		ug/L			11/10/22 19:42	1
Ethylbenzene	<1.0		1.0		ug/L			11/10/22 19:42	1
Xylenes, Total	<10		10		ug/L			11/10/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/10/22 19:42*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*11/10/22 19:42*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/10/22 19:42*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: DUP-01
Date Collected: 11/06/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-2
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			11/11/22 01:22	1
Toluene	<1.0		1.0		ug/L			11/11/22 01:22	1
Ethylbenzene	<1.0		1.0		ug/L			11/11/22 01:22	1
Xylenes, Total	<10		10		ug/L			11/11/22 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 119*		*11/11/22 01:22*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/11/22 01:22*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/11/22 01:22*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-1
Date Collected: 11/06/22 11:56
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-3
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**190**		1.0		ug/L			11/10/22 17:33	1
Toluene	**88**		1.0		ug/L			11/10/22 17:33	1
Ethylbenzene	**3.6**		1.0		ug/L			11/10/22 17:33	1
Xylenes, Total	**120**		10		ug/L			11/10/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/10/22 17:33*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*11/10/22 17:33*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*11/10/22 17:33*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-3R
Date Collected: 11/06/22 12:05
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-4
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			11/10/22 16:44	1
Toluene	<1.0		1.0		ug/L			11/10/22 16:44	1
Ethylbenzene	<1.0		1.0		ug/L			11/10/22 16:44	1
Xylenes, Total	<10		10		ug/L			11/10/22 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/10/22 16:44*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*11/10/22 16:44*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/10/22 16:44*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-6
Date Collected: 11/06/22 12:11
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-5
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0		ug/L			11/11/22 13:56	5
Toluene	<5.0		5.0		ug/L			11/11/22 13:56	5
Ethylbenzene	**15**		5.0		ug/L			11/11/22 13:56	5
Xylenes, Total	**680**		50		ug/L			11/11/22 13:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/11/22 13:56*	*5*
Dibromofluoromethane	*102*		*75 - 126*		*11/11/22 13:56*	*5*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/11/22 13:56*	*5*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-7

Date Collected: 11/06/22 11:47
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-6

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			11/11/22 01:48	1
Toluene	<1.0		1.0		ug/L			11/11/22 01:48	1
Ethylbenzene	<1.0		1.0		ug/L			11/11/22 01:48	1
Xylenes, Total	<10		10		ug/L			11/11/22 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/11/22 01:48*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*11/11/22 01:48*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/11/22 01:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-8

Date Collected: 11/06/22 12:22
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-7

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			11/11/22 02:14	1
Toluene	<1.0		1.0		ug/L			11/11/22 02:14	1
Ethylbenzene	<1.0		1.0		ug/L			11/11/22 02:14	1
Xylenes, Total	<10		10		ug/L			11/11/22 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/11/22 02:14*	*1*
Dibromofluoromethane	*97*		*75 - 126*		*11/11/22 02:14*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/11/22 02:14*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-10

Date Collected: 11/06/22 12:30
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-8

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			11/11/22 02:40	1
Toluene	<1.0		1.0		ug/L			11/11/22 02:40	1
Ethylbenzene	<1.0		1.0		ug/L			11/11/22 02:40	1
Xylenes, Total	<10		10		ug/L			11/11/22 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/11/22 02:40*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/11/22 02:40*	*1*
Toluene-d8 (Surr)	*96*		*64 - 132*		*11/11/22 02:40*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-12
Date Collected: 11/06/22 12:38
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-9
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			11/11/22 09:45	1
Toluene	<1.0		1.0		ug/L			11/11/22 09:45	1
Ethylbenzene	<1.0		1.0		ug/L			11/11/22 09:45	1
Xylenes, Total	<10		10		ug/L			11/11/22 09:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/11/22 09:45*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*11/11/22 09:45*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/11/22 09:45*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-13

Date Collected: 11/06/22 12:42
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-10

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/11/22 10:10*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*11/11/22 10:10*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/11/22 10:10*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-14

Date Collected: 11/06/22 12:52
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-11

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			11/11/22 10:36	1
Toluene	<1.0		1.0		ug/L			11/11/22 10:36	1
Ethylbenzene	<1.0		1.0		ug/L			11/11/22 10:36	1
Xylenes, Total	<10		10		ug/L			11/11/22 10:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 119*		*11/11/22 10:36*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*11/11/22 10:36*	*1*
Toluene-d8 (Surr)	*98*		*64 - 132*		*11/11/22 10:36*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

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: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: TB-01
Date Collected: 11/06/22 11:30
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-1
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	600113	11/10/22 19:42	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: DUP-01
Date Collected: 11/06/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-2
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	600113	11/11/22 01:22	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-1
Date Collected: 11/06/22 11:56
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-3
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	600113	11/10/22 17:33	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-3R
Date Collected: 11/06/22 12:05
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-4
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	600113	11/10/22 16:44	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-6
Date Collected: 11/06/22 12:11
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-5
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		5	5 mL	5 mL	600201	11/11/22 13:56	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-7
Date Collected: 11/06/22 11:47
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-6
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	600113	11/11/22 01:48	WPD	EET PEN
	Instrument ID: CH_CONAN									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

Client Sample ID: MW-8
Date Collected: 11/06/22 12:22
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-7
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	600113	11/11/22 02:14	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-10
Date Collected: 11/06/22 12:30
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-8
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	600113	11/11/22 02:40	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-12
Date Collected: 11/06/22 12:38
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-9
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	600201	11/11/22 09:45	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-13
Date Collected: 11/06/22 12:42
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-10
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	600201	11/11/22 10:10	WPD	EET PEN
	Instrument ID: CH_CONAN									

Client Sample ID: MW-14
Date Collected: 11/06/22 12:52
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228566-11
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	600201	11/11/22 10:36	WPD	EET PEN
	Instrument ID: CH_CONAN									

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: K27 LD072.00

Job ID: 400-228566-1

GC/MS VOA

Analysis Batch: 600113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228566-1	TB-01	Total/NA	Water	8260C	
400-228566-2	DUP-01	Total/NA	Water	8260C	
400-228566-3	MW-1	Total/NA	Water	8260C	
400-228566-4	MW-3R	Total/NA	Water	8260C	
400-228566-6	MW-7	Total/NA	Water	8260C	
400-228566-7	MW-8	Total/NA	Water	8260C	
400-228566-8	MW-10	Total/NA	Water	8260C	
MB 400-600113/4	Method Blank	Total/NA	Water	8260C	
LCS 400-600113/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228566-4 MS	MW-3R	Total/NA	Water	8260C	
400-228566-4 MSD	MW-3R	Total/NA	Water	8260C	

Analysis Batch: 600201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228566-5	MW-6	Total/NA	Water	8260C	
400-228566-9	MW-12	Total/NA	Water	8260C	
400-228566-10	MW-13	Total/NA	Water	8260C	
400-228566-11	MW-14	Total/NA	Water	8260C	
MB 400-600201/4	Method Blank	Total/NA	Water	8260C	
LCS 400-600201/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228566-9 MS	MW-12	Total/NA	Water	8260C	
400-228566-9 MSD	MW-12	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

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

Lab Sample ID: MB 400-600113/4
Matrix: Water
Analysis Batch: 600113

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			11/10/22 16:19	1
Toluene	<1.0		1.0		ug/L			11/10/22 16:19	1
Ethylbenzene	<1.0		1.0		ug/L			11/10/22 16:19	1
Xylenes, Total	<10		10		ug/L			11/10/22 16:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/10/22 16:19*	*1*
Dibromofluoromethane	*96*		*75 - 126*		*11/10/22 16:19*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/10/22 16:19*	*1*

Lab Sample ID: LCS 400-600113/1002
Matrix: Water
Analysis Batch: 600113

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	52.6		ug/L		105	70 - 130		
Toluene			50.0	52.9		ug/L		106	70 - 130		
Ethylbenzene			50.0	54.9		ug/L		110	70 - 130		
Xylenes, Total			100	110		ug/L		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*72 - 119*
Dibromofluoromethane	*92*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: 400-228566-4 MS
Matrix: Water
Analysis Batch: 600113

Client Sample ID: MW-3R
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	39.1		ug/L		78	56 - 142		
Toluene	<1.0		50.0	37.5		ug/L		75	65 - 130		
Ethylbenzene	<1.0		50.0	37.1		ug/L		74	58 - 131		
Xylenes, Total	<10		100	73.3		ug/L		73	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*72 - 119*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 400-228566-4 MSD
Matrix: Water
Analysis Batch: 600113

Client Sample ID: MW-3R
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	43.4		ug/L		87	56 - 142	11	30
Toluene	<1.0		50.0	42.8		ug/L		86	65 - 130	13	30
Ethylbenzene	<1.0		50.0	42.0		ug/L		84	58 - 131	12	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

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

Lab Sample ID: 400-228566-4 MSD
Matrix: Water
Analysis Batch: 600113

Client Sample ID: MW-3R
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	82.9		ug/L		83	59 - 130	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*72 - 119*
Dibromofluoromethane	*93*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

Lab Sample ID: MB 400-600201/4
Matrix: Water
Analysis Batch: 600201

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

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 119*		*11/11/22 08:08*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*11/11/22 08:08*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/11/22 08:08*	*1*

Lab Sample ID: LCS 400-600201/1002
Matrix: Water
Analysis Batch: 600201

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	57.4		ug/L		115	70 - 130		
Toluene			50.0	56.5		ug/L		113	70 - 130		
Ethylbenzene			50.0	58.5		ug/L		117	70 - 130		
Xylenes, Total			100	117		ug/L		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*72 - 119*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 400-228566-9 MS
Matrix: Water
Analysis Batch: 600201

Client Sample ID: MW-12
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	46.1		ug/L		92	56 - 142		
Toluene	<1.0		50.0	42.6		ug/L		85	65 - 130		
Ethylbenzene	<1.0		50.0	42.4		ug/L		85	58 - 131		
Xylenes, Total	<10		100	85.4		ug/L		85	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072.00

Job ID: 400-228566-1

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

Lab Sample ID: 400-228566-9 MS
Matrix: Water
Analysis Batch: 600201

Client Sample ID: MW-12
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*72 - 119*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*94*		*64 - 132*

Lab Sample ID: 400-228566-9 MSD
Matrix: Water
Analysis Batch: 600201

Client Sample ID: MW-12
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	52.0		ug/L		104	56 - 142	12	30
Toluene	<1.0		50.0	50.3		ug/L		101	65 - 130	16	30
Ethylbenzene	<1.0		50.0	49.3		ug/L		99	58 - 131	15	30
Xylenes, Total	<10		100	97.8		ug/L		98	59 - 130	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*72 - 119*
Dibromofluoromethane	*94*		*75 - 126*
Toluene-d8 (Surr)	*98*		*64 - 132*

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

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: 913 9800 2815	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114524-37677.1
Client Contact: Steve Varsa	Phone: SRC	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: ~~Page 1 of 2~~ 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 #: WD1040029			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH-09			
Project Name: K27 LD072.00 SemiAnnual	Project #: 40005479			
Site: K27 STN-09	SSOW#:			

Analysis Requested

400-228566 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 - BTEX 8260	8260C - BTEX 8260 (unpreserved)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
TB-01	11/6/2022	1130	G	Water			2		2	
DUP-01	11/6/2022	—	G	Water			3		3	
MW-1	11/6/2022	1156	G	Water			3		3	
MW-3R	11/6/2022	1205	G	Water				3	3	
MW-6	11/6/2022	1211	G	Water				3	3	
MW-7	11/6/2022	1147	G	Water			3		3	
MW-8	11/6/2022	1222	G	Water			3		3	
MW-10	11/6/2022	1230	G	Water			3		3	
MW-12	11/6/2022	1234	G	Water			3		3	
MW-13	11/6/2022	1242	G	Water			3		3	
MW-14	11/6/2022	1252	G	Water			3		3	

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
1		11/7/2022 12a	STN			
2						
3					11-8-22 9:32	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.0 i 1.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228566-1

Login Number: 228566 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Perez, Trina M

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.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-8
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: 400-228566-1
Project/Site: K27 LD072.00

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 2:37:40 PM

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APPENDIX G

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-227203-1
Client Project/Site: K27 LD072 - SOIL

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

Attn: Steve Varsa

Authorized for release by:
10/24/2022 4:28:28 PM
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Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Laboratory Job ID: 400-227203-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Job ID: 400-227203-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227203-1

Receipt
The samples were received on 10/13/2022 9:18 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 time was 3.6°C

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB11 30-31 FT — Lab Sample ID: 400-227203-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	55		45		mg/Kg	1	☼	325.2	Soluble

Client Sample ID: SB11 32-33 FT — Lab Sample ID: 400-227203-2

No Detections.

Client Sample ID: SB12 26-27 FT — Lab Sample ID: 400-227203-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	45		44		mg/Kg	1	☼	325.2	Soluble

Client Sample ID: SB13 35-36 FT — Lab Sample ID: 400-227203-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	110		48		mg/Kg	1	☼	325.2	Soluble

Client Sample ID: SB14 31-32 FT — Lab Sample ID: 400-227203-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Chloride	93		45		mg/Kg	1	☼	325.2	Soluble

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET PEN
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET PEN
325.2	Chloride	MCAWW	EET PEN
Moisture	Percent Moisture	EPA	EET PEN
3546	Microwave Extraction	SW846	EET PEN
5035	Closed System Purge and Trap	SW846	EET PEN
DI Leach	Deionized Water Leaching Procedure	ASTM	EET PEN

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: K27 LD072 - SOIL

Job ID: 400-227203-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227203-1	SB11 30-31 FT	Solid	10/09/22 09:50	10/13/22 09:18
400-227203-2	SB11 32-33 FT	Solid	10/09/22 09:52	10/13/22 09:18
400-227203-3	SB12 26-27 FT	Solid	10/09/22 12:20	10/13/22 09:18
400-227203-4	SB13 35-36 FT	Solid	10/10/22 10:50	10/13/22 09:18
400-227203-5	SB14 31-32 FT	Solid	10/10/22 16:20	10/13/22 09:18

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB11 30-31 FT

Date Collected: 10/09/22 09:50
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-1

Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0055		0.0055		mg/Kg	☼	10/18/22 08:46	10/18/22 12:17	1
Toluene	<0.0055		0.0055		mg/Kg	☼	10/18/22 08:46	10/18/22 12:17	1
Ethylbenzene	<0.0055		0.0055		mg/Kg	☼	10/18/22 08:46	10/18/22 12:17	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/18/22 08:46	10/18/22 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*	*10/18/22 08:46*	*10/18/22 12:17*	*1*
Dibromofluoromethane	*100*		*77 - 127*	*10/18/22 08:46*	*10/18/22 12:17*	*1*
Toluene-d8 (Surr)	*100*		*76 - 127*	*10/18/22 08:46*	*10/18/22 12:17*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.10		0.10		mg/Kg	☼	10/17/22 09:10	10/17/22 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*65 - 125*	*10/17/22 09:10*	*10/17/22 22:57*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.4		5.4		mg/Kg	☼	10/17/22 10:59	10/18/22 18:10	1
Oil Range Organics (ORO)	<5.4		5.4		mg/Kg	☼	10/17/22 10:59	10/18/22 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*27 - 150*	*10/17/22 10:59*	*10/18/22 18:10*	*1*

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 325.2)	**55**		45		mg/Kg	☼		10/17/22 01:22	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB11 32-33 FT

Date Collected: 10/09/22 09:52
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-2

Matrix: Solid
Percent Solids: 95.7

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg	☼	10/18/22 08:46	10/18/22 15:05	1
Toluene	<0.0050		0.0050		mg/Kg	☼	10/18/22 08:46	10/18/22 15:05	1
Ethylbenzene	<0.0050		0.0050		mg/Kg	☼	10/18/22 08:46	10/18/22 15:05	1
Xylenes, Total	<0.010		0.010		mg/Kg	☼	10/18/22 08:46	10/18/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*	*10/18/22 08:46*	*10/18/22 15:05*	*1*
Dibromofluoromethane	*102*		*77 - 127*	*10/18/22 08:46*	*10/18/22 15:05*	*1*
Toluene-d8 (Surr)	*101*		*76 - 127*	*10/18/22 08:46*	*10/18/22 15:05*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.10		0.10		mg/Kg	☼	10/17/22 09:10	10/17/22 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*65 - 125*	*10/17/22 09:10*	*10/17/22 23:28*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.1		5.1		mg/Kg	☼	10/17/22 10:59	10/18/22 18:26	1
Oil Range Organics (ORO)	<5.1		5.1		mg/Kg	☼	10/17/22 10:59	10/18/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*27 - 150*	*10/17/22 10:59*	*10/18/22 18:26*	*1*

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 325.2)	<42		42		mg/Kg	☼		10/17/22 01:23	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB12 26-27 FT

Date Collected: 10/09/22 12:20
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-3

Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0055		0.0055		mg/Kg	☼	10/18/22 08:46	10/18/22 15:26	1
Toluene	<0.0055		0.0055		mg/Kg	☼	10/18/22 08:46	10/18/22 15:26	1
Ethylbenzene	<0.0055		0.0055		mg/Kg	☼	10/18/22 08:46	10/18/22 15:26	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/18/22 08:46	10/18/22 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*	*10/18/22 08:46*	*10/18/22 15:26*	*1*
Dibromofluoromethane	*104*		*77 - 127*	*10/18/22 08:46*	*10/18/22 15:26*	*1*
Toluene-d8 (Surr)	*102*		*76 - 127*	*10/18/22 08:46*	*10/18/22 15:26*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.11		0.11		mg/Kg	☼	10/17/22 09:10	10/17/22 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*65 - 125*	*10/17/22 09:10*	*10/17/22 23:59*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.5		5.5		mg/Kg	☼	10/17/22 10:59	10/18/22 18:42	1
Oil Range Organics (ORO)	<5.5		5.5		mg/Kg	☼	10/17/22 10:59	10/18/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*27 - 150*	*10/17/22 10:59*	*10/18/22 18:42*	*1*

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 325.2)	**45**		44		mg/Kg	☼		10/17/22 01:24	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB13 35-36 FT

Date Collected: 10/10/22 10:50
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-4

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0060		0.0060		mg/Kg	☼	10/18/22 08:46	10/18/22 15:47	1
Toluene	<0.0060		0.0060		mg/Kg	☼	10/18/22 08:46	10/18/22 15:47	1
Ethylbenzene	<0.0060		0.0060		mg/Kg	☼	10/18/22 08:46	10/18/22 15:47	1
Xylenes, Total	<0.012		0.012		mg/Kg	☼	10/18/22 08:46	10/18/22 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*	*10/18/22 08:46*	*10/18/22 15:47*	*1*
Dibromofluoromethane	*101*		*77 - 127*	*10/18/22 08:46*	*10/18/22 15:47*	*1*
Toluene-d8 (Surr)	*101*		*76 - 127*	*10/18/22 08:46*	*10/18/22 15:47*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.12		0.12		mg/Kg	☼	10/17/22 09:10	10/18/22 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*65 - 125*	*10/17/22 09:10*	*10/18/22 00:31*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.9		5.9		mg/Kg	☼	10/17/22 10:59	10/18/22 18:59	1
Oil Range Organics (ORO)	<5.9		5.9		mg/Kg	☼	10/17/22 10:59	10/18/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*27 - 150*	*10/17/22 10:59*	*10/18/22 18:59*	*1*

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 325.2)	**110**		48		mg/Kg	☼		10/17/22 01:24	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB14 31-32 FT

Date Collected: 10/10/22 16:20
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-5

Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0056		0.0056		mg/Kg	☼	10/18/22 08:46	10/18/22 16:08	1
Toluene	<0.0056		0.0056		mg/Kg	☼	10/18/22 08:46	10/18/22 16:08	1
Ethylbenzene	<0.0056		0.0056		mg/Kg	☼	10/18/22 08:46	10/18/22 16:08	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/18/22 08:46	10/18/22 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*	*10/18/22 08:46*	*10/18/22 16:08*	*1*
Dibromofluoromethane	*99*		*77 - 127*	*10/18/22 08:46*	*10/18/22 16:08*	*1*
Toluene-d8 (Surr)	*101*		*76 - 127*	*10/18/22 08:46*	*10/18/22 16:08*	*1*

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.099		0.099		mg/Kg	☼	10/17/22 09:10	10/18/22 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*65 - 125*	*10/17/22 09:10*	*10/18/22 01:02*	*1*

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.6		5.6		mg/Kg	☼	10/17/22 10:59	10/18/22 19:15	1
Oil Range Organics (ORO)	<5.6		5.6		mg/Kg	☼	10/17/22 10:59	10/18/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*81*		*27 - 150*	*10/17/22 10:59*	*10/18/22 19:15*	*1*

General Chemistry - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride (MCAWW 325.2)	**93**		45		mg/Kg	☼		10/17/22 01:25	1

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB11 30-31 FT
Date Collected: 10/09/22 09:50
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			596585	10/17/22 10:41	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB11 30-31 FT
Date Collected: 10/09/22 09:50
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-1
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.12 g	5.00 g	596765	10/18/22 08:46	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	596706	10/18/22 12:17	BPO	EET PEN
	Instrument ID: Darwin									
Total/NA	Prep	5035			5.40 g	5.00 g	596654	10/17/22 09:10	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596549	10/17/22 22:57	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.56 g	1 mL	596587	10/17/22 10:59	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	596720	10/18/22 18:10	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.5 g	50 mL	596424	10/14/22 17:30	DN1	EET PEN
Soluble	Analysis	325.2		1	10 mL	10 mL	596522	10/17/22 01:22	DN1	EET PEN
	Instrument ID: Dr_Strange									

Client Sample ID: SB11 32-33 FT
Date Collected: 10/09/22 09:52
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			596585	10/17/22 10:41	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB11 32-33 FT
Date Collected: 10/09/22 09:52
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-2
Matrix: Solid
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.19 g	5.00 g	596765	10/18/22 08:46	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	596706	10/18/22 15:05	BPO	EET PEN
	Instrument ID: Darwin									
Total/NA	Prep	5035			5.08 g	5.00 g	596654	10/17/22 09:10	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596549	10/17/22 23:28	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.25 g	1 mL	596587	10/17/22 10:59	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	596720	10/18/22 18:26	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.5 g	50 mL	596424	10/14/22 17:30	DN1	EET PEN
Soluble	Analysis	325.2		1	10 mL	10 mL	596522	10/17/22 01:23	DN1	EET PEN
	Instrument ID: Dr_Strange									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB12 26-27 FT

Lab Sample ID: 400-227203-3
Date Collected: 10/09/22 12:20
Matrix: Solid
Date Received: 10/13/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			596585	10/17/22 10:41	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB12 26-27 FT

Lab Sample ID: 400-227203-3
Date Collected: 10/09/22 12:20
Matrix: Solid
Date Received: 10/13/22 09:18
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.00 g	596765	10/18/22 08:46	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	596706	10/18/22 15:26	BPO	EET PEN
	Instrument ID: Darwin									
Total/NA	Prep	5035			5.17 g	5.00 g	596654	10/17/22 09:10	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596549	10/17/22 23:59	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.00 g	1 mL	596587	10/17/22 10:59	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	596720	10/18/22 18:42	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.5 g	50 mL	596424	10/14/22 17:30	DN1	EET PEN
Soluble	Analysis	325.2		1	10 mL	10 mL	596522	10/17/22 01:24	DN1	EET PEN
	Instrument ID: Dr_Strange									

Client Sample ID: SB13 35-36 FT

Lab Sample ID: 400-227203-4
Date Collected: 10/10/22 10:50
Matrix: Solid
Date Received: 10/13/22 09:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			596585	10/17/22 10:41	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB13 35-36 FT

Lab Sample ID: 400-227203-4
Date Collected: 10/10/22 10:50
Matrix: Solid
Date Received: 10/13/22 09:18
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5.00 g	596765	10/18/22 08:46	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	596706	10/18/22 15:47	BPO	EET PEN
	Instrument ID: Darwin									
Total/NA	Prep	5035			5.14 g	5.00 g	596654	10/17/22 09:10	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596549	10/18/22 00:31	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.18 g	1 mL	596587	10/17/22 10:59	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	596720	10/18/22 18:59	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.5 g	50 mL	596424	10/14/22 17:30	DN1	EET PEN
Soluble	Analysis	325.2		1	10 mL	10 mL	596522	10/17/22 01:24	DN1	EET PEN
	Instrument ID: Dr_Strange									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Client Sample ID: SB14 31-32 FT
Date Collected: 10/10/22 16:20
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			596585	10/17/22 10:41	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: SB14 31-32 FT
Date Collected: 10/10/22 16:20
Date Received: 10/13/22 09:18

Lab Sample ID: 400-227203-5
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5.00 g	596765	10/18/22 08:46	BPO	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	596706	10/18/22 16:08	BPO	EET PEN
	Instrument ID: Darwin									
Total/NA	Prep	5035			5.70 g	5.00 g	596654	10/17/22 09:10	SAB	EET PEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	596549	10/18/22 01:02	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.11 g	1 mL	596587	10/17/22 10:59	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	596720	10/18/22 19:15	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.5 g	50 mL	596424	10/14/22 17:30	DN1	EET PEN
Soluble	Analysis	325.2		1	10 mL	10 mL	596522	10/17/22 01:25	DN1	EET PEN
	Instrument ID: Dr_Strange									

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: K27 LD072 - SOIL

Job ID: 400-227203-1

GC/MS VOA

Analysis Batch: 596706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Total/NA	Solid	8260C	596765
400-227203-2	SB11 32-33 FT	Total/NA	Solid	8260C	596765
400-227203-3	SB12 26-27 FT	Total/NA	Solid	8260C	596765
400-227203-4	SB13 35-36 FT	Total/NA	Solid	8260C	596765
400-227203-5	SB14 31-32 FT	Total/NA	Solid	8260C	596765
MB 400-596765/2-A	Method Blank	Total/NA	Solid	8260C	596765
LCS 400-596765/1-A	Lab Control Sample	Total/NA	Solid	8260C	596765
400-227203-1 MS	SB11 30-31 FT	Total/NA	Solid	8260C	596765
400-227203-1 MSD	SB11 30-31 FT	Total/NA	Solid	8260C	596765

Prep Batch: 596765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Total/NA	Solid	5035	
400-227203-2	SB11 32-33 FT	Total/NA	Solid	5035	
400-227203-3	SB12 26-27 FT	Total/NA	Solid	5035	
400-227203-4	SB13 35-36 FT	Total/NA	Solid	5035	
400-227203-5	SB14 31-32 FT	Total/NA	Solid	5035	
MB 400-596765/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-596765/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227203-1 MS	SB11 30-31 FT	Total/NA	Solid	5035	
400-227203-1 MSD	SB11 30-31 FT	Total/NA	Solid	5035	

GC VOA

Analysis Batch: 596549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Total/NA	Solid	8015D	596654
400-227203-2	SB11 32-33 FT	Total/NA	Solid	8015D	596654
400-227203-3	SB12 26-27 FT	Total/NA	Solid	8015D	596654
400-227203-4	SB13 35-36 FT	Total/NA	Solid	8015D	596654
400-227203-5	SB14 31-32 FT	Total/NA	Solid	8015D	596654
MB 400-596654/2-A	Method Blank	Total/NA	Solid	8015D	596654
LCS 400-596654/1-A	Lab Control Sample	Total/NA	Solid	8015D	596654
400-227197-B-1-B MS	Matrix Spike	Total/NA	Solid	8015D	596654
400-227197-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015D	596654

Prep Batch: 596654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Total/NA	Solid	5035	
400-227203-2	SB11 32-33 FT	Total/NA	Solid	5035	
400-227203-3	SB12 26-27 FT	Total/NA	Solid	5035	
400-227203-4	SB13 35-36 FT	Total/NA	Solid	5035	
400-227203-5	SB14 31-32 FT	Total/NA	Solid	5035	
MB 400-596654/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-596654/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227197-B-1-B MS	Matrix Spike	Total/NA	Solid	5035	
400-227197-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

GC Semi VOA

Prep Batch: 596587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Total/NA	Solid	3546	
400-227203-2	SB11 32-33 FT	Total/NA	Solid	3546	
400-227203-3	SB12 26-27 FT	Total/NA	Solid	3546	
400-227203-4	SB13 35-36 FT	Total/NA	Solid	3546	
400-227203-5	SB14 31-32 FT	Total/NA	Solid	3546	
MB 400-596587/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-596587/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227308-G-1-B MS	Matrix Spike	Total/NA	Solid	3546	
400-227308-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 596720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Total/NA	Solid	8015D	596587
400-227203-2	SB11 32-33 FT	Total/NA	Solid	8015D	596587
400-227203-3	SB12 26-27 FT	Total/NA	Solid	8015D	596587
400-227203-4	SB13 35-36 FT	Total/NA	Solid	8015D	596587
400-227203-5	SB14 31-32 FT	Total/NA	Solid	8015D	596587
MB 400-596587/1-A	Method Blank	Total/NA	Solid	8015D	596587
LCS 400-596587/2-A	Lab Control Sample	Total/NA	Solid	8015D	596587
400-227308-G-1-B MS	Matrix Spike	Total/NA	Solid	8015D	596587
400-227308-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015D	596587

General Chemistry

Leach Batch: 596424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Soluble	Solid	DI Leach	
400-227203-2	SB11 32-33 FT	Soluble	Solid	DI Leach	
400-227203-3	SB12 26-27 FT	Soluble	Solid	DI Leach	
400-227203-4	SB13 35-36 FT	Soluble	Solid	DI Leach	
400-227203-5	SB14 31-32 FT	Soluble	Solid	DI Leach	

Analysis Batch: 596522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Soluble	Solid	325.2	596424
400-227203-2	SB11 32-33 FT	Soluble	Solid	325.2	596424
400-227203-3	SB12 26-27 FT	Soluble	Solid	325.2	596424
400-227203-4	SB13 35-36 FT	Soluble	Solid	325.2	596424
400-227203-5	SB14 31-32 FT	Soluble	Solid	325.2	596424
MB 400-596522/13	Method Blank	Total/NA	Solid	325.2	
LCS 400-596522/14	Lab Control Sample	Total/NA	Solid	325.2	
MRL 400-596522/15	Lab Control Sample	Total/NA	Solid	325.2	
400-227251-B-1 MS	Matrix Spike	Total/NA	Solid	325.2	
400-227251-B-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	325.2	

Analysis Batch: 596585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-1	SB11 30-31 FT	Total/NA	Solid	Moisture	
400-227203-2	SB11 32-33 FT	Total/NA	Solid	Moisture	
400-227203-3	SB12 26-27 FT	Total/NA	Solid	Moisture	
400-227203-4	SB13 35-36 FT	Total/NA	Solid	Moisture	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

General Chemistry (Continued)

Analysis Batch: 596585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227203-5	SB14 31-32 FT	Total/NA	Solid	Moisture	
680-222671-B-24 DU	Duplicate	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

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

Lab Sample ID: MB 400-596765/2-A
Matrix: Solid
Analysis Batch: 596706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596765

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg		10/18/22 08:46	10/18/22 11:12	1
Toluene	<0.0050		0.0050		mg/Kg		10/18/22 08:46	10/18/22 11:12	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		10/18/22 08:46	10/18/22 11:12	1
Xylenes, Total	<0.010		0.010		mg/Kg		10/18/22 08:46	10/18/22 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*	*10/18/22 08:46*	*10/18/22 11:12*	*1*
Dibromofluoromethane	*102*		*77 - 127*	*10/18/22 08:46*	*10/18/22 11:12*	*1*
Toluene-d8 (Surr)	*102*		*76 - 127*	*10/18/22 08:46*	*10/18/22 11:12*	*1*

Lab Sample ID: LCS 400-596765/1-A
Matrix: Solid
Analysis Batch: 596706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0480		mg/Kg		96	65 - 130
Toluene	0.0500	0.0453		mg/Kg		91	70 - 130
Ethylbenzene	0.0500	0.0440		mg/Kg		88	70 - 130
Xylenes, Total	0.100	0.0856		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.0500	0.0423		mg/Kg		85	70 - 130
o-Xylene	0.0500	0.0433		mg/Kg		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
Dibromofluoromethane	*101*		*77 - 127*
Toluene-d8 (Surr)	*98*		*76 - 127*

Lab Sample ID: 400-227203-1 MS
Matrix: Solid
Analysis Batch: 596706

Client Sample ID: SB11 30-31 FT
Prep Type: Total/NA
Prep Batch: 596765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0055		0.0543	0.0519		mg/Kg	☼	96	38 - 131
Toluene	<0.0055		0.0543	0.0516		mg/Kg	☼	95	42 - 130
Ethylbenzene	<0.0055		0.0543	0.0529		mg/Kg	☼	98	35 - 130
Xylenes, Total	<0.011		0.109	0.105		mg/Kg	☼	97	35 - 130
m-Xylene & p-Xylene	<0.0055		0.0543	0.0528		mg/Kg	☼	97	35 - 130
o-Xylene	<0.0055		0.0543	0.0524		mg/Kg	☼	97	35 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*67 - 130*
Dibromofluoromethane	*100*		*77 - 127*
Toluene-d8 (Surr)	*98*		*76 - 127*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

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

Lab Sample ID: 400-227203-1 MSD
Matrix: Solid
Analysis Batch: 596706

Client Sample ID: SB11 30-31 FT
Prep Type: Total/NA
Prep Batch: 596765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0055		0.0548	0.0482		mg/Kg	☼	88	38 - 131	7	36
Toluene	<0.0055		0.0548	0.0478		mg/Kg	☼	87	42 - 130	8	37
Ethylbenzene	<0.0055		0.0548	0.0479		mg/Kg	☼	87	35 - 130	10	46
Xylenes, Total	<0.011		0.110	0.0940		mg/Kg	☼	86	35 - 130	11	39
m-Xylene & p-Xylene	<0.0055		0.0548	0.0469		mg/Kg	☼	85	35 - 130	12	42
o-Xylene	<0.0055		0.0548	0.0471		mg/Kg	☼	86	35 - 130	11	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*67 - 130*
Dibromofluoromethane	*98*		*77 - 127*
Toluene-d8 (Surr)	*100*		*76 - 127*

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 400-596654/2-A
Matrix: Solid
Analysis Batch: 596549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596654

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.10		0.10		mg/Kg		10/17/22 09:10	10/17/22 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*93*		*65 - 125*	*10/17/22 09:10*	*10/17/22 10:29*	*1*

Lab Sample ID: LCS 400-596654/1-A
Matrix: Solid
Analysis Batch: 596549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596654

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO) C6--C10			1.00	0.959		mg/Kg		96	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*110*		*65 - 125*

Lab Sample ID: 400-227197-B-1-B MS
Matrix: Solid
Analysis Batch: 596549

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 596654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO) C6--C10	<6.4		64.3	61.3		mg/Kg	☼	95	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*109*		*65 - 125*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 400-227197-B-1-B MSD
Matrix: Solid
Analysis Batch: 596549

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 596654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) C6--C10	<6.4		64.3	61.2		mg/Kg	☼	95	10 - 150	0	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*108*		*65 - 125*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-596587/1-A
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596587

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.0		5.0		mg/Kg		10/17/22 10:59	10/18/22 13:33	1
Oil Range Organics (ORO)	<5.0		5.0		mg/Kg		10/17/22 10:59	10/18/22 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*27 - 150*	*10/17/22 10:59*	*10/18/22 13:33*	*1*

Lab Sample ID: LCS 400-596587/2-A
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596587

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)			270	184		mg/Kg		68	38 - 116		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*66*		*27 - 150*

Lab Sample ID: 400-227308-G-1-B MS
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 596587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)	<5.8		306	235		mg/Kg	☼	77	62 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*75*		*27 - 150*

Lab Sample ID: 400-227308-G-1-C MSD
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 596587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<5.8		307	238		mg/Kg	☼	77	62 - 150	1	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: K27 LD072 - SOIL

Job ID: 400-227203-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 400-227308-G-1-C MSD
Matrix: Solid
Analysis Batch: 596720

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 596587

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*72*		*27 - 150*

Method: 325.2 - Chloride

Lab Sample ID: MB 400-596522/13
Matrix: Solid
Analysis Batch: 596522

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/Kg			10/17/22 01:18	1

Lab Sample ID: LCS 400-596522/14
Matrix: Solid
Analysis Batch: 596522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	47.9		mg/Kg		96	90 - 110		

Lab Sample ID: MRL 400-596522/15
Matrix: Solid
Analysis Batch: 596522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			2.00	1.79		mg/Kg		90			

Lab Sample ID: 400-227251-B-1 MS
Matrix: Solid
Analysis Batch: 596522

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		
Chloride	870		10.0	876	4	mg/Kg		84	75 - 125		

Lab Sample ID: 400-227251-B-1 MSD
Matrix: Solid
Analysis Batch: 596522

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
Chloride	870		10.0	877	4	mg/Kg		88	75 - 125	0	20

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Rob Malcomson	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114342-39983.1
Client Contact: ~~Clint Oberbroeckling~~ Steve Varsa	Phone: 515 710 4815	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #: 19371092047
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): Standard			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com ~~clint.w.oberbroeckling@mwhglobal.com~~	WO #:			
Project Name: K-27 LD072 Soil	Project #: 40005479			
Site:	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, 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)	8015B_DRO - TPH DRO/ORO, Chloride 352.3	8015B_GRO, 8021B	325.2 - Chloride	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N		
SB11 30-31 ft.	10/9/22	0930	G	S			X	X	X	2	
SB11 32-33 ft.	10/9/22	0952	G	S			X	X	X	2	
SB12 26-27 ft.	10/9/22	1220	G	S			X	X	X	2	
SB13 35-36 ft.	10/10/22	1050	G	S			X	X	X	2	
SB14 31-32 ft.	10/10/22	1620	G	S			X	X	X	2	

400-227203 COC

Rob Malcomson 10/12/22

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
Rob Malcomson	10/12/22 1330	Stantec	FedEx	10/12/22 1330	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10-13-22 710	
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: 3.6°C IR

Ver: 06/08 2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-227203-1

Login Number: 227203 **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	3.6°C IR8
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").	N/A	
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: 400-227203-1
Project/Site: K27 LD072 - SOIL

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	10-31-22
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

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

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

CONDITIONS

Action 201738

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 201738
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2022 Annual Groundwater Report: Content satisfactory 1. Proceed with Planned Future Activities as stated in this report. 2. Submit next annual groundwater monitoring report no later than April 1, 2024.	5/22/2023