2021 ANNUAL GROUNDWATER REPORT

Miles Federal #1A
Incident Number: nAUTOfAB000391
Meter Code: 94810
T26N, R7W, Sec5, Unit F

SITE DETAILS

Site Location: Latitude: 36.515700 N, Longitude -107.601460 W
Land Type: Federal
Operator: Cross Timbers Energy, LLC

SITE BACKGROUND

Environmental Remediation activities at Miles Federal #1A (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCGP's) program methods. Currently, the Site is operated by Cross Timbers Energy, LLC and is active.

The Site is located on Federal land. An initial site assessment was completed in January 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in June of 1994. Monitoring wells were installed in 1994 (MW-1) and 1999 (MW-2 and MW-3). Soil borings (DP-1 and DP-2) were advanced in 2016. 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. Due to accessibility and safety issues on site, the NMOCD has agreed (October 14, 2014 meeting with Glen VonGotten and Jim Griswold) that no further delineation is needed. Currently, groundwater sampling is conducted on a semi-annual basis.

MONITORING WELL PLUGGING AND INSTALLATION ACTIVITIES

In accordance with the June 28, 2021, *Monitoring Well Replacement Work Plan*, existing monitoring well MW-1 which has been nearly dry, was abandoned and replaced in August 2021 with a deeper replacement monitoring well (MW-1R) to provide more representative groundwater samples at that location. The initially scheduled date of July 24, 2021, for the plugging and replacement well installation activities was rescheduled to August 28, 2021, due to weather related site inaccessibility. A copy of the NMOCD notification for the well replacement activities is included as Appendix A.

On August 28, 2021, existing monitoring well MW-1 was plugged and abandoned in accordance with New Mexico Office of the State Engineer requirements. Well abandonment activities consisted of removing the protective casing and well pad and removing the poly vinyl chloride (PVC) well casing to a depth of 1 foot below ground surface (bgs). The well was then grouted. Following completion of the plugging activities, the former well pad area was graded with surrounding surface soils using hand-tools. A copy of the New Mexico Office of the State Engineer well abandonment form is included in Appendix B.

On August 28, 2021, a truck-mounted, hollow-stem auger drill rig was used to advance a soil boring to 46 feet bgs, to facilitate installation of monitoring well MW-1R. Prior to advancing the soil boring, soft-digging methods were utilized to clear the borehole to a depth of five feet bgs to confirm no unmarked subsurface utilities or other obstructions were present.

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After the soft digging activities were completed, borehole advancement was conducted from the soft-digging termination depth to the base of the borehole using hollow-stem auger and continuous-core sampling methods. Soil samples were collected during advancement and logged using Unified Soil Classification System (USCS) soil descriptions.

Soil samples were collected at 1-foot intervals, where recovery was possible, for field screening and logging. The field personnel field screened the soil samples using a pre-calibrated photoionization detector (PID) and recorded the readings. The field screening was conducted by notching the soil in the core with a pre-cleaned hand tool, and briefly placing the PID in the notch to measure impacts. PID field screening results for MW-1R are included on the boring log provided in Appendix C. Low PID results between 0.0 and 100 parts per million vapor (ppm-v) were observed from 0 to 21 feet bgs and from 37 to 46 feet bgs. Elevated PID results from 150 to 15,000 ppm-v were observed from 22 to 36 feet bgs. As soil boring DP-01, located adjacent to the MW-1R location, was previously advanced and soil samples collected and submitted for laboratory analysis, no soil samples were retained for laboratory analysis from MW-1R.

Replacement monitoring well MW-1R was constructed of 4-inch-diameter, Schedule 40, 0.010-slot PVC screen and 4-inch-diameter, Schedule 40 PVC riser casing. A locking, protective steel well vault was installed from 3 feet above ground surface to 2 feet bgs within a concrete pad on the ground surface. Concrete-filled steel bollards were placed around the concrete pad to protect the well vault. The NMOSE well construction form is included in Appendix B. A well log detailing the MW-1R logging description is provided in Appendix C.

Monitoring well development was performed using a well swab and downhole pump until visibly clear groundwater was observed. Decontamination and well development water was containerized and transported to Basin Disposal, Inc. in Bloomfield, NM (Basin) for disposal. Wastewater disposal documentation is included as Appendix D. Soil cuttings were containerized in drums and were staged on site for later disposal at Envirotech, Inc. (Envirotech), located south of Bloomfield, NM. Soil disposal documentation is contained in Appendix E.

Upon completion of development, the newly installed monitoring well was fitted with a Hydrasleeve™ no-purge groundwater sampling device to facilitate future groundwater sampling. Following installation, the location and elevation of the replacement monitoring well was surveyed relative to State Plane.

GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via electronic mail (e-mail) to the NMOCD on May 12, 2021, and November 3, 2021, prior to initiating groundwater sampling activities at the Site. Copies of the 2021 NMOCD notifications are provided in Appendix A. On May 19 and November 11, 2021, water levels were gauged at MW-1, MW-2, and MW-3. No light non-aqueous phase liquid (LNAPL) was detected in site monitoring wells during water level gauging in 2021. Groundwater samples were collected from each well 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-TestAmerica Laboratories, Inc. (Eurofins) in Pensacola, Florida where they were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). One laboratory-supplied trip blank and one blind field duplicate were also collected during each groundwater sampling event. The samples, field duplicate, and trip blank were analyzed for BTEX constituents using United States Environmental Protection Agency (EPA) Method 8260. The unused sample water was combined in a waste container and taken to Basin in Bloomfield, New Mexico for disposal. Waste disposal documentation is included as Appendix D.

SUMMARY TABLES

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

SITE MAPS

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

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix E.

GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the northwest during 2021 (see Figures 4 and 6).
- Concentrations of benzene were either below the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) or were not detected in the site monitoring wells sampled in 2021.
- Concentrations of toluene were either below the NMWQCC standard (750 µg/L) or not detected in the site monitoring wells sampled in 2021.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or not detected in the site monitoring wells sampled in 2021.
- Concentrations of total xylenes were ether below the NMWQCC standard (620 µg/L) or not detected in the site monitoring wells sampled in 2021.
- A field duplicate was collected from monitoring well MW-1 during the May 2021 sampling event and from MW-1R during the November 2021 sampling event. There were no significant differences in BTEX constituent concentrations between the primary and duplicate samples.

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PLANNED FUTURE ACTIVITIES

The groundwater sampling results from the November 2021 sampling event indicate site-wide concentrations are below applicable New Mexico Water Quality Control Commission (NMWQCC) standards for BTEX constituents. Therefore, groundwater monitoring events will be conducted on a quarterly basis through the third calendar quarter of 2022 to move the Site towards regulatory closure. Groundwater samples will be collected from monitoring wells and analyzed for BTEX constituents using EPA Method 8260. Due to the historical presence of LNAPL in the former pit, monitoring well MW-1R will also be sampled for PAHs during the first calendar quarter of 2022 to confirm applicable NMWQCC standards are achieved.

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

TABLES

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standards:		10	750	750	620
MW-1	11/05/96	1050	1630	391	2620
MW-1	02/07/97	671	809	439	2550
MW-1	05/06/97	300	350	320	1880
MW-1	04/11/01	NS	NS	NS	NS
MW-1	07/03/01	NS	NS	NS	NS
MW-1	09/04/01	NS	NS	NS	NS
MW-1	10/01/01	NS	NS	NS	NS
MW-1	01/02/02	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	01/19/04	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	10/21/05	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	10/24/06	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	04/17/08	122	203	369	2550
MW-1	07/23/08	NS	NS	NS	NS
MW-1	10/08/08	NS	NS	NS	NS
MW-1	01/16/09	NS	NS	NS	NS
MW-1	04/06/09	104	199	596	1840
MW-1	08/25/09	NS	NS	NS	NS
MW-1	11/02/09	NS	NS	NS	NS
MW-1	02/16/10	NS	NS	NS	NS
MW-1	06/02/10	186	266	370	2320
MW-1	09/27/10	NS	NS	NS	NS

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Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-1	11/01/10	NS	NS	NS	NS
MW-1	02/01/11	NS	NS	NS	NS
MW-1	05/09/11	14.6	19.3	86.9	236
MW-1	09/23/11	NS	NS	NS	NS
MW-1	11/02/11	NS	NS	NS	NS
MW-1	02/22/12	NS	NS	NS	NS
MW-1	05/15/12	60.9	79.9	136	602
MW-1	06/05/13	44	78	120	830
MW-1	09/10/13	300	510	250	2200
MW-1	12/11/13	21	37	21	230
MW-1	04/04/14	81	130	120	800
MW-1	10/24/14	73	32	95	1300
MW-1	05/31/15	68	79	95	940
MW-1	11/21/15	160	67	98	1200
MW-1	04/17/16	81	99	68	1100
MW-1	10/15/16	56	72	150	1300
MW-1	06/07/17	9.5	<10	32	95
MW-1	09/17/17	NS	NS	NS	NS
MW-1	11/14/17	42	74	68	570
MW-1	05/15/18	47	120	100	870
DP-01(MW-1)*	05/15/18	54	150	130	1100
MW-1	10/27/18	20	23	57	370
DUP-01(MW-1)*	10/27/18	18	20	44	290
MW-1	05/21/19	72	81	75	1200
DUP-1(MW-1)*	05/21/19	71	68	72	1100
MW-1	11/10/19	3.7	<1.0	25	31
DUP-1(MW-1)*	11/10/19	4.1	1.6	23	53
MW-1	05/11/20	17	5.7	45	180
DUP-01(MW-1)*	05/11/20	9.5	3.2	28	100
MW-1	11/12/20	44	12	<1.0	220
DUP-01(MW-1)*	11/12/20	42	12	<1.0	190
MW-1	05/19/21	8.1	2.3	22	88
DUP-01(MW-1)*	05/19/21	8.1	2.3	20	86
MW-1 abandoned and replaced with MW-1R on August 28, 2021					
MW-1R	11/11/21	<1.0	<1.0	<1.0	<10
DUP-01(MW-1R)*	11/11/21	<1.0	<1.0	<1.0	<10

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-2	10/15/99	<0.5	2.1	5.5	2.8
MW-2	07/03/01	NS	NS	NS	NS
MW-2	09/04/01	NS	NS	NS	NS
MW-2	10/01/01	NS	NS	NS	NS
MW-2	07/15/02	<0.5	0.6	0.9	1.4
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	01/19/04	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	10/24/06	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	04/17/08	<2	<2	<2	<6
MW-2	07/23/08	NS	NS	NS	NS
MW-2	10/08/08	NS	NS	NS	NS
MW-2	01/16/09	NS	NS	NS	NS
MW-2	04/06/09	<1	<1	<1	<2
MW-2	08/25/09	NS	NS	NS	NS
MW-2	11/02/09	NS	NS	NS	NS
MW-2	02/16/10	NS	NS	NS	NS
MW-2	06/02/10	<2	<2	<2	<6
MW-2	09/27/10	NS	NS	NS	NS
MW-2	11/01/10	NS	NS	NS	NS
MW-2	02/01/11	NS	NS	NS	NS
MW-2	05/09/11	<1	<1	<1	<3
MW-2	09/23/11	NS	NS	NS	NS
MW-2	11/02/11	NS	NS	NS	NS
MW-2	02/22/12	NS	NS	NS	NS

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-2	05/15/12	<1	<1	<1	<3
MW-2	06/05/13	<0.14	<0.30	<0.20	<0.23
MW-2	09/10/13	<0.14	<0.30	<0.20	<0.23
MW-2	12/11/13	<2.0	<3.8	<2.0	<6.5
MW-2	04/04/14	<0.20	<0.38	<0.20	<0.65
MW-2	10/24/14	<0.38	<0.70	<0.50	<1.6
MW-2	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-2	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-2	04/17/16	<1.0	<5.0	<1.0	<5.0
MW-2	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-2	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-2	11/14/17	<1.0	<1.0	<1.0	<10
MW-2	05/15/18	<1.0	<1.0	<1.0	<10
MW-2	10/27/18	<1.0	<1.0	<1.0	<10
MW-2	05/21/19	<1.0	<1.0	<1.0	<10
MW-2	11/10/19	<1.0	<1.0	<1.0	<10
MW-2	05/11/20	<1.0	<1.0	<1.0	<10
MW-2	11/12/20	<1.0	<1.0	<1.0	<10
MW-2	05/19/21	<1.0	<1.0	<1.0	<10
MW-2	11/11/21	<1.0	<1.0	<1.0	<10
MW-3	10/15/99	<0.5	0.9	<0.5	3.1
MW-3	07/03/01	<0.5	<0.5	<0.5	<0.5
MW-3	09/04/01	NS	NS	NS	NS
MW-3	10/01/01	NS	NS	NS	NS
MW-3	07/15/02	NS	NS	NS	NS
MW-3	10/08/02	NS	NS	NS	NS
MW-3	01/27/03	NS	NS	NS	NS
MW-3	04/26/03	NS	NS	NS	NS
MW-3	07/17/03	NS	NS	NS	NS
MW-3	01/19/04	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	NS	NS	NS	NS
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	10/24/06	NS	NS	NS	NS

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Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
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	NS	NS	NS	NS
MW-3	01/25/08	NS	NS	NS	NS
MW-3	04/17/08	<2	<2	<2	<6
MW-3	07/23/08	NS	NS	NS	NS
MW-3	10/08/08	NS	NS	NS	NS
MW-3	01/16/09	NS	NS	NS	NS
MW-3	04/06/09	<1	<1	<1	<2
MW-3	08/25/09	NS	NS	NS	NS
MW-3	11/02/09	NS	NS	NS	NS
MW-3	02/16/10	NS	NS	NS	NS
MW-3	06/02/10	<2	<2	<2	<6
MW-3	09/27/10	NS	NS	NS	NS
MW-3	11/01/10	NS	NS	NS	NS
MW-3	02/01/11	NS	NS	NS	NS
MW-3	05/09/11	NS	NS	NS	NS
MW-3	09/23/11	NS	NS	NS	NS
MW-3	11/02/11	NS	NS	NS	NS
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	<0.14	<0.30	<0.20	<0.23
MW-3	12/11/13	<0.20	<0.38	<0.20	<0.65
MW-3	04/04/14	<0.20	<0.38	<0.20	<0.65
MW-3	10/24/14	<0.38	<0.70	<0.50	<1.6
MW-3	05/31/15	<1.0	<5.0	<1.0	<5.0
MW-3	11/21/15	<1.0	<1.0	<1.0	<3.0
MW-3	04/17/16	<1.0	<5.0	<1.0	<5.0
MW-3	10/15/16	<1.0	<5.0	<1.0	<5.0
MW-3	06/07/17	<1.0	<5.0	<1.0	<5.0
MW-3	11/14/17	<1.0	<1.0	<1.0	<10
MW-3	05/15/18	<1.0	<1.0	<1.0	<10
MW-3	10/27/18	<1.0	<1.0	<1.0	<10
MW-3	05/21/19	<1.0	<1.0	<1.0	<10
MW-3	05/11/20	<1.0	<1.0	<1.0	<10
MW-3	11/12/20	<1.0	<1.0	<1.0	<10
MW-3	05/19/21	<1.0	<1.0	<1.0	<10
MW-3	11/11/21	<1.0	<1.0	<1.0	<10

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

Miles Fed 1A					
Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)

Notes:
The monitoring dates where no groundwater samples were collected and analyzed have been omitted.
"µg/L" = micrograms per liter
Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
"<" = analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
*Field Duplicate results presented immediately below primary sample result

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	11/05/96	6049.42	30.10	30.58	0.48	6019.20
MW-1	02/07/97	6049.42	29.91	30.05	0.14	6019.47
MW-1	05/06/97	6049.42	30.04	30.18	0.14	6019.34
MW-1	04/11/01	6049.42	30.61	31.81	1.20	6018.51
MW-1	07/03/01	6049.42	31.18	32.76	1.58	6017.84
MW-1	09/04/01	6049.42	30.68	31.80	1.12	6018.46
MW-1	10/01/01	6049.42	31.16	31.41	0.25	6018.19
MW-1	01/02/02	6049.42	31.20	32.17	0.97	6017.97
MW-1	04/01/02	6049.42	31.09	31.45	0.36	6018.24
MW-1	07/15/02	6049.42	31.43	32.35	0.92	6017.76
MW-1	10/08/02	6049.42	31.33	31.73	0.40	6017.99
MW-1	01/27/03	6049.42	31.21	31.59	0.38	6018.11
MW-1	04/26/03	6049.42	31.16	31.30	0.14	6018.22
MW-1	07/17/03	6049.42	31.73	32.31	0.58	6017.54
MW-1	01/19/04	6049.42	31.32	31.49	0.17	6018.05
MW-1	07/27/04	6049.42	31.89	32.47	0.58	6017.38
MW-1	10/20/04	6049.42	31.95	32.24	0.29	6017.39
MW-1	01/25/05	6049.42	31.75	31.91	0.16	6017.63
MW-1	04/14/05	6049.42	ND	31.52		6017.90
MW-1	07/19/05	6049.42	32.32	32.43	0.11	6017.07
MW-1	10/21/05	6049.42	ND	32.02		6017.40
MW-1	01/23/06	6049.42	31.92	31.93	0.01	6017.49
MW-1	04/28/06	6049.42	ND	31.85		6017.57
MW-1	07/26/06	6049.42	ND	31.94		6017.48
MW-1	10/24/06	6049.42	ND	30.71		6018.71
MW-1	01/17/07	6049.42	ND	30.99		6018.43
MW-1	04/24/07	6049.42	ND	30.95		6018.47
MW-1	07/31/07	6049.42	ND	31.32		6018.10
MW-1	10/25/07	6049.42	ND	31.40		6018.02
MW-1	01/25/08	6049.42	ND	31.12		6018.30
MW-1	04/17/08	6049.42	ND	31.04		6018.38
MW-1	07/23/08	6049.42	ND	31.23		6018.19
MW-1	10/08/08	6049.42	ND	31.77		6017.65
MW-1	01/16/09	6049.42	31.66	31.74	0.08	6017.74
MW-1	04/06/09	6049.42	ND	31.82		6017.60
MW-1	08/25/09	6049.42	ND	32.30		6017.12
MW-1	11/02/09	6049.42	ND	32.20		6017.22
MW-1	02/16/10	6049.42	ND	31.74		6017.68
MW-1	06/02/10	6049.42	31.50	31.53	0.03	6017.91
MW-1	09/27/10	6049.42	ND	31.89		6017.53
MW-1	11/01/10	6049.42	ND	31.76		6017.66
MW-1	02/01/11	6049.42	ND	31.63		6017.79

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-1	05/09/11	6049.42	ND	31.60		6017.82
MW-1	09/23/11	6049.42	ND	32.40		6017.02
MW-1	11/02/11	6049.42	ND	32.27		6017.15
MW-1	02/22/12	6049.42	ND	31.99		6017.43
MW-1	05/15/12	6049.42	ND	32.08		6017.34
MW-1	06/05/13	6049.42	ND	31.80		6017.62
MW-1	09/10/13	6049.42	ND	31.30		6018.12
MW-1	12/11/13	6049.42	ND	31.16		6018.26
MW-1	04/04/14	6049.42	ND	31.22		6018.20
MW-1	10/24/14	6049.42	ND	31.50		6017.92
MW-1	05/31/15	6049.42	ND	31.36		6018.06
MW-1	11/21/15	6049.42	ND	31.01		6018.41
MW-1	04/17/16	6049.42	ND	30.23		6019.19
MW-1	10/15/16	6049.42	ND	31.11		6018.31
MW-1	06/07/17	6049.42	ND	30.70		6018.72
MW-1	09/17/17	6049.42	ND	31.35		6018.07
MW-1	11/14/17	6049.42	ND	30.82		6018.60
MW-1	05/15/18	6049.42	ND	31.23		6018.19
MW-1	10/27/18	6049.42	ND	31.40		6018.02
MW-1	05/21/19	6049.42	ND	30.58		6018.84
MW-1	11/10/19	6049.42	ND	31.91		6017.51
MW-1	05/11/20	6049.42	ND	31.61		6017.81
MW-1	11/12/20	6049.42	ND	32.33		6017.09
MW-1	05/19/21	6049.42	ND	31.97		6017.45
MW-1 abandoned and replaced with MW-1R on August 28, 2021						
MW-1R	11/11/21	6048.97	ND	31.13		6017.84

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	10/15/99	6049.22	NR	27.97		6021.25
MW-2	07/03/01	6049.22	NR	32.51		6016.71
MW-2	09/04/01	6049.22	NR	28.30		6020.92
MW-2	10/01/01	6049.22	NR	28.61		6020.61
MW-2	07/15/02	6049.22	NR	31.46		6017.76
MW-2	10/08/02	6049.22	NR	30.77		6018.45
MW-2	01/27/03	6049.22	ND	30.64		6018.58
MW-2	04/26/03	6049.22	ND	31.51		6017.71
MW-2	07/17/03	6049.22	ND	31.23		6017.99
MW-2	01/19/04	6049.22	ND	31.14		6018.08
MW-2	07/27/04	6049.22	ND	31.37		6017.85
MW-2	10/20/04	6049.22	ND	31.33		6017.89
MW-2	01/25/05	6049.22	ND	31.56		6017.66
MW-2	04/14/05	6049.22	ND	31.33		6017.89
MW-2	07/19/05	6049.22	ND	31.97		6017.25
MW-2	10/21/05	6049.22	ND	31.09		6018.13
MW-2	01/23/06	6049.22	ND	31.19		6018.03
MW-2	04/28/06	6049.22	ND	31.21		6018.01
MW-2	07/26/06	6049.22	ND	31.24		6017.98
MW-2	10/24/06	6049.22	ND	30.55		6018.67
MW-2	01/17/07	6049.22	ND	30.29		6018.93
MW-2	04/24/07	6049.22	ND	30.75		6018.47
MW-2	07/31/07	6049.22	ND	30.56		6018.66
MW-2	10/25/07	6049.22	ND	30.71		6018.51
MW-2	01/25/08	6049.22	ND	30.41		6018.81
MW-2	04/17/08	6049.22	ND	30.36		6018.86
MW-2	07/23/08	6049.22	ND	31.14		6018.08
MW-2	10/08/08	6049.22	ND	31.57		6017.65
MW-2	01/16/09	6049.22	ND	30.98		6018.24
MW-2	04/06/09	6049.22	ND	31.40		6017.82
MW-2	08/25/09	6049.22	ND	31.85		6017.37
MW-2	11/02/09	6049.22	ND	31.93		6017.29
MW-2	02/16/10	6049.22	ND	31.43		6017.79
MW-2	06/02/10	6049.22	ND	31.33		6017.89
MW-2	09/27/10	6049.22	ND	31.63		6017.59
MW-2	11/01/10	6049.22	ND	31.57		6017.65
MW-2	02/01/11	6049.22	ND	31.39		6017.83
MW-2	05/09/11	6049.22	ND	31.40		6017.82
MW-2	09/23/11	6049.22	ND	32.05		6017.17
MW-2	11/02/11	6049.22	ND	32.01		6017.21
MW-2	02/22/12	6049.22	ND	31.76		6017.46
MW-2	05/15/12	6049.22	ND	31.87		6017.35

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-2	06/05/13	6049.22	ND	31.56		6017.66
MW-2	09/10/13	6049.22	ND	31.13		6018.09
MW-2	12/11/13	6049.22	ND	30.95		6018.27
MW-2	04/04/14	6049.22	ND	31.02		6018.20
MW-2	10/24/14	6049.22	ND	31.32		6017.90
MW-2	05/31/15	6049.22	ND	31.37		6017.85
MW-2	11/21/15	6049.22	ND	30.80		6018.42
MW-2	04/17/16	6049.22	ND	30.75		6018.47
MW-2	10/15/16	6049.22	ND	30.89		6018.33
MW-2	06/07/17	6049.22	ND	30.48		6018.74
MW-2	11/14/17	6049.22	ND	30.61		6018.61
MW-2	05/15/18	6049.22	ND	31.03		6018.19
MW-2	10/27/18	6049.22	ND	31.19		6018.03
MW-2	05/21/19	6049.22	ND	30.45		6018.77
MW-2	11/10/19	6049.22	ND	31.65		6017.57
MW-2	05/11/20	6049.22	ND	31.39		6017.83
MW-2	11/12/20	6049.22	ND	32.09		6017.13
MW-2	05/19/21	6049.22	ND	31.80		6017.42
MW-2	11/11/21	6049.22	ND	31.26		6017.96
MW-3	10/15/99	6049.32	NR	27.92		6021.40
MW-3	07/03/01	6049.32	NR	28.97		6020.35
MW-3	09/04/01	6049.32	NR	28.40		6020.92
MW-3	10/01/01	6049.32	NR	28.63		6020.69
MW-3	07/15/02	6049.32	NR	31.46		6017.86
MW-3	10/08/02	6049.32	NR	31.22		6018.10
MW-3	01/27/03	6049.32	ND	31.11		6018.21
MW-3	04/26/03	6049.32	ND	30.99		6018.33
MW-3	07/17/03	6049.32	ND	31.62		6017.70
MW-3	01/19/04	6049.32	ND	30.66		6018.66
MW-3	07/27/04	6049.32	ND	31.30		6018.02
MW-3	10/20/04	6049.32	ND	31.32		6018.00
MW-3	01/25/05	6049.32	ND	31.08		6018.24
MW-3	04/14/05	6049.32	ND	30.87		6018.45
MW-3	07/19/05	6049.32	ND	31.56		6017.76
MW-3	10/21/05	6049.32	ND	31.66		6017.66
MW-3	01/23/06	6049.32	ND	31.61		6017.71
MW-3	04/28/06	6049.32	ND	31.62		6017.70

TABLE 2 - GROUNDWATER ELEVATION RESULTS

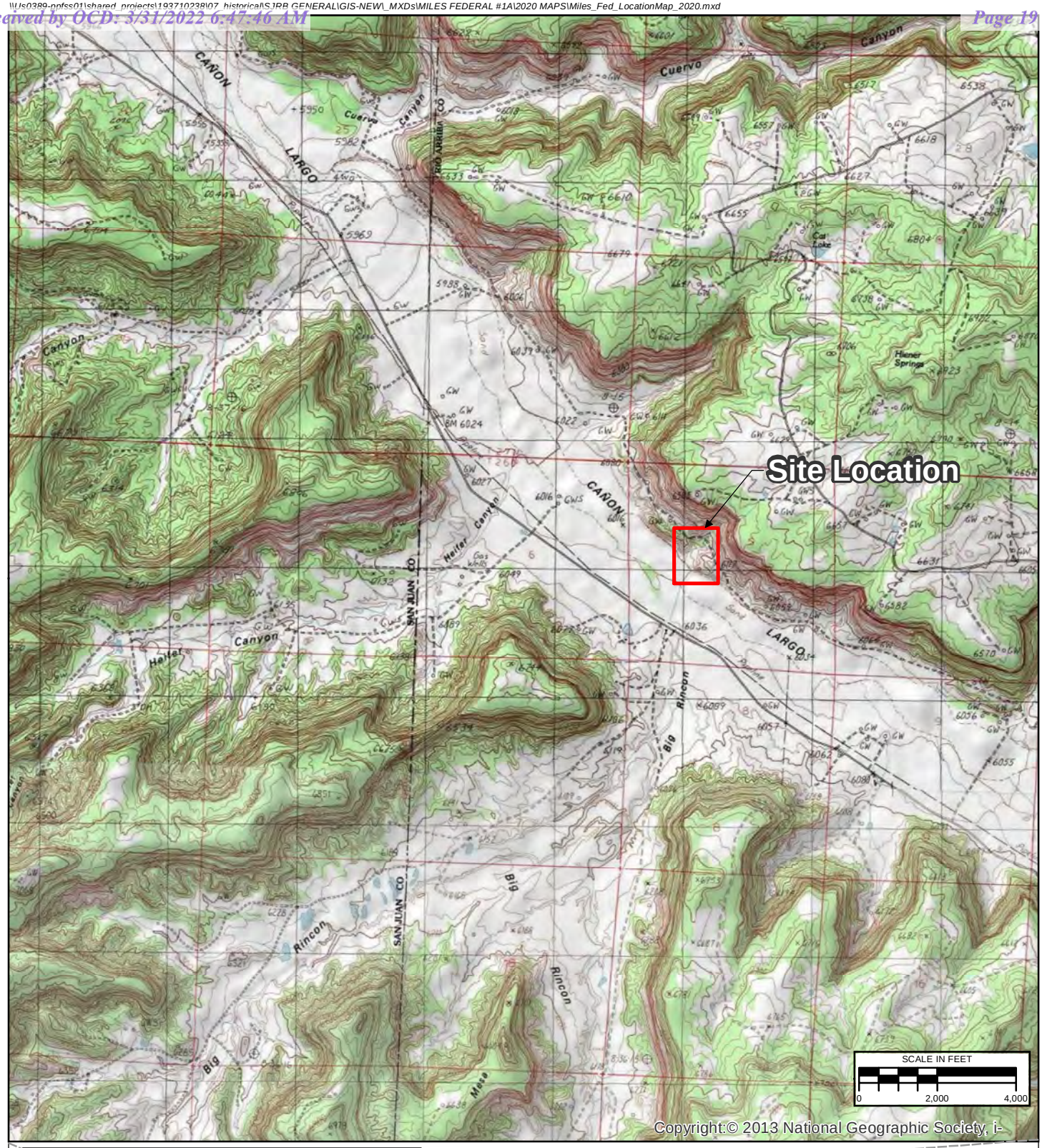
Miles Fed 1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)
MW-3	07/26/06	6049.32	ND	31.72		6017.60
MW-3	10/24/06	6049.32	ND	30.03		6019.29
MW-3	01/17/07	6049.32	ND	30.81		6018.51
MW-3	04/24/07	6049.32	ND	30.28		6019.04
MW-3	07/31/07	6049.32	ND	31.12		6018.20
MW-3	10/25/07	6049.32	ND	31.19		6018.13
MW-3	01/25/08	6049.32	ND	20.93		6028.39
MW-3	04/17/08	6049.32	ND	30.36		6018.96
MW-3	07/23/08	6049.32	ND	30.58		6018.74
MW-3	10/08/08	6049.32	ND	31.15		6018.17
MW-3	01/16/09	6049.32	ND	31.47		6017.85
MW-3	04/06/09	6049.32	ND	30.93		6018.39
MW-3	08/25/09	6049.32	ND	31.60		6017.72
MW-3	11/02/09	6049.32	ND	31.47		6017.85
MW-3	02/16/10	6049.32	ND	30.89		6018.43
MW-3	06/02/10	6049.32	ND	30.88		6018.44
MW-3	09/27/10	6049.32	ND	31.20		6018.12
MW-3	11/01/10	6049.32	ND	30.96		6018.36
MW-3	02/01/11	6049.32	ND	30.91		6018.41
MW-3	05/09/11	6049.32	ND	30.95		6018.37
MW-3	09/23/11	6049.32	ND	31.55		6017.77
MW-3	11/02/11	6049.32	ND	31.52		6017.80
MW-3	02/22/12	6049.32	ND	31.37		6017.95
MW-3	05/15/12	6049.32	ND	31.45		6017.87
MW-3	06/05/13	6049.32	ND	31.15		6018.17
MW-3	09/10/13	6049.32	ND	30.58		6018.74
MW-3	12/11/13	6049.32	ND	30.43		6018.89
MW-3	04/04/14	6049.32	ND	30.51		6018.81
MW-3	10/24/14	6049.32	ND	30.82		6018.50
MW-3	05/31/15	6049.32	ND	30.66		6018.66
MW-3	11/21/15	6049.32	ND	30.29		6019.03
MW-3	04/17/16	6049.32	ND	30.23		6019.09
MW-3	10/15/16	6049.32	ND	30.42		6018.90
MW-3	06/07/17	6049.32	ND	30.01		6019.31
MW-3	11/14/17	6049.32	ND	30.10		6019.22
MW-3	05/15/18	6049.32	ND	30.57		6018.75
MW-3	10/27/18	6049.32	ND	30.72		6018.60
MW-3	05/21/19	6049.32	ND	29.96		6019.36
MW-3	05/11/20	6049.32	ND	30.90		6018.42
MW-3	11/12/20	6049.32	ND	31.67		6017.65
MW-3	05/19/21	6049.32	ND	31.34		6017.98
MW-3	11/11/21	6049.32	ND	30.76		6018.56

TABLE 2 - GROUNDWATER ELEVATION RESULTS

Miles Fed 1A						
Location	Date	TOC	Depth to LNAPL (ft.)	Depth to Water (ft.)	LNAPL Thickness (ft.)	GW Elevation (ft.)

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

FIGURES



N

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/17/2021	SAH	SAH	SRV

TITLE
SITE LOCATION

Stantec

PROJECT
MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

FIGURE
1

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\MILES FEDERAL #1A\2019 MAPS\Miles_Fed_SITEMAP_2019.mxd

LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- SOIL BORING
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD
- PROPOSED RIGHT OF WAY BOUNDARY

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/23/2021	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: **2**

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\MILES FEDERAL #1A\2021 MAPS\Miles_Fed_GARM_1SA_2021.mxd

LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

DUP = FIELD DUPLICATE SAMPLE

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
µg/L = MICROGRAMS PER LITER
<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 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/26/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 19, 2021

PROJECT:

MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 3

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\MILES FEDERAL #1A\2021 MAPS\Miles_Fed_GECM_1SA_2021.mxd

LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

6017.45 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

6017.5 WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.2 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

NO LNAPL DETECTED

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	7/26/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 19, 2021

PROJECT:

MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 4

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\MILES FEDERAL #1A\2021 MAPS\Miles_Fed_GARM_2SA_2021.mxd

LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- ABANDONED MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

DUP = FIELD DUPLICATE SAMPLE

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
µg/L = MICROGRAMS PER LITER
<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 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-01-18	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 11, 2021

PROJECT:

MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 5

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\MILES FEDERAL #1A\2021 MAPS\Miles_Fed_GECM_2SA_2021.mxd

LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- ABANDONED MONITORING WELL
- RIG ANCHOR
- SMA BENCHMARK
- WELLHEAD

NOTES:

6017.45 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

6017.5 WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.2 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

NO LNAPL DETECTED

N

SCALE IN FEET

0 40 80

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2022-01-18	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 11, 2021

PROJECT:

MILES FED #1A
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 6

APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – NMOSE WELL ABANDONMENT FORM & NMOSE WELL CONSTRUCTION FORM

APPENDIX C - BORING LOG & FIELD SCREENING RESULTS

APPENDIX D - WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX E - SOIL DISPOSAL DOCUMENTATION

APPENDIX F - GROUNDWATER SAMPLING ANALYTICAL REPORTS

APPENDIX A

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

Hi Cory -

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

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

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

Thank you,
Steve

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

From:	Varsa, Steve
To:	Smith, Cory, EMNRD
Cc:	Griswold, Jim, EMNRD; Wiley, Joe
Subject:	FW: Miles Federal #1A (Incident Number NAUTOAB000391) - notice of upcoming monitoring well replacement activities
Date:	Tuesday, August 17, 2021 6:29:41 PM

Hi Cory – due to site access/adverse road condition issues, the subject work was delayed. It is now to occur on August 20, 2021.

Thank you,
Steve

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

From: Varsa, Steve
Sent: Friday, July 09, 2021 6:08 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Wiley, Joe <Joe_Wiley@kindermorgan.com>
Subject: Miles Federal #1A (Incident Number NAUTOAB000391) - notice of upcoming monitoring well replacement activities

Hi Cory -

This correspondence is to provide notice to the NMOCD of planned monitoring well replacement activities at the above-referenced El Paso CGP Company (EPCGP) site. A work plan for the subject activities was loaded into e-permitting for the subject incident on June 29, 2021. The field activities are planned to occur on July 24, 2021.

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020

Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

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

Hi Cory -

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

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

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

Thank you,
Steve

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

APPENDIX B

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-1 (POD-1)

Well owner: El Paso CGP Co LLC Joesph Wiley Phone No.: 713-420-3175

Mailing address: 1001 Louisiana Street Room 1445B

City: Houston State: TX Zip code: 77002

II. WELL PLUGGING INFORMATION:

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

2) New Mexico Well Driller License No.: WD1210 Expiration Date: 10.31.2021

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

4) Date well plugging began: 08.29.2021 Date well plugging concluded: 08.29.2021

5) GPS Well Location: Latitude: 32 deg, 56 min, 6.49 sec
Longitude: -107 deg, 23 min, 52.25 sec, WGS 84

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

7) Static water level measured at initiation of plugging: 31 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 05.12.2016

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):

Version: September 8, 2009
Page 1 of 2

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.)
	Concrete 2' bgs	35 Gallons	21.78	Tremie	PVC Riser cut 2' bgs and topped with concrete cap and soil.
	Portland Bentonite slurry to TD of 33' bgs				

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

III. SIGNATURE:

I, Matthew Cain, 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.

Matthew Cain Digitally signed by Matthew Cain Date: 2021 08 31 08:28:11 -06'00' 08.31.2021

Signature of Well Driller Date

Version: September 8, 2009
Page 2 of 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO (WELL NO)	WELL TAG ID NO	OSE FILE NO(S)
POD 4 (MW-1R)	MW-1R	SJ-4196

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGP Company LLC, c/o Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1001 Louisiana Street Room 1445B	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	30	58.06	N
	LONGITUDE	-107	36	07.15	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

S/E4, N/W4, Sec5, T26N, R7W, Rio Arriba, County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1210	Bryan Nydoske	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
08/28/2021	08/29/2021	46 bgs	46	31

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 31

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: HSA

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)
2.5AG	26	11.25	Schedule 40 Riser	Flush Thread	4	.154	NA
26	46	11.25	Schedule 40 Riser	Flush thread	4	.154	.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	11.25	Concrete Vault	1.1	Pour
2	20	11.25	Portland Bentonite Grout	10.51	Tremie
20	23	11.25	3/8 Bentonite Chips	1.7	Tremie
23	46	11.25	10/20 Silica Sand	13.4	Tremie

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

FILE NO.	POD NO.	TRN NO
LOCATION	WELL TAG ID NO	PAGE 1 OF 2

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	30	30	Sands	Y ✓N	
30	46	16	Weathered Sandstone	✓Y N	.25
				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:

☑ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): .25

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: 8" above ground well vault, 2'X2'X 6" Concrete pad, 3- Bollards all painted safety yellow.

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

Matthew Cain

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.

Matthew Cain Digitally signed by Matthew Cain Date: 2021 08 31 08:11:54 -06'00' — Matthew Cain — 08.31.2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

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

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

From: Ronald Cain
To: Varsa, Steve
Cc: Paisley Brinkerhoff; Shawn Cain
Subject: RE: Well record and Plugging Record for Miles Fed #1A
Date: Tuesday, February 22, 2022 7:25:54 AM

Hi Steve,

Matt mailed these to state. I will confirm they received.

Thanks,

Ron

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Monday, February 21, 2022 3:03 PM
To: Ronald Cain <RCain@cascade-env.com>
Cc: Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>; Shawn Cain <scain@cascade-env.com>
Subject: FW: Well record and Plugging Record for Miles Fed #1A

Hi Ron – I'm following up on this request.

Thanks,
Steve

From: Varsa, Steve
Sent: Thursday, February 10, 2022 4:59 AM
To: Ronald Cain <RCain@cascade-env.com>; Paisley Brinkerhoff <pbrinkerhoff@cascade-env.com>
Cc: Bryan Nydoske <bnydoske@cascade-env.com>
Subject: FW: Well record and Plugging Record for Miles Fed #1A

Ron or Paisley – can you send me a copy of the proof of NMOSE submittal for the attached forms?

Thank you,
Steve

From: Matthew A. Cain <mcain@cascade-env.com>
Sent: Tuesday, August 31, 2021 9:41 AM
To: Varsa, Steve <steve.varsa@stantec.com>
Cc: Ronald Cain <RCain@cascade-env.com>; Bryan Nydoske <bnydoske@cascade-env.com>
Subject: Well record and Plugging Record for Miles Fed #1A

Good morning, Attached is the P&A and Well Record for Miles Fed, #1A. I could not find an up to date Plugging plan for MW-1; the plan I have is for the two DP soil

APPENDIX C

Drilling Log

Stantec

Monitoring Well **MW-1R**

Page: 1 of 2

Project *Miles Federal #1A* Client *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193710308*

Surface Elev. *6047.18 ft* North *2009964.19* East *1243159.60*

Top of Casing *6048.97 ft* Water Level Initial ▽ *6017.47* 08/28/21 00:00 Static ▼ NA

Hole Depth *46.0 ft* Screen: Diameter *4 in* Length *20.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *11.5 in* Casing: Diameter *4 in* Length *27.8 ft* Type *PVC*

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

Driller *Matt Cain* Driller Reg. # *WD-1210* Log By *Sarah Gardner*

Start Date *8/27/2021* Completion Date *8/28/2021* Checked By *S. Varsa*

COMMENTS

Bentonite Chips | Bentonite Granules | Grout | Portland Cement | Sand Pack | 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							
	0.0	100%			SM	0-5' hand-augered. Sand with silt, sand is fine to medium-grained.	
	0.0						
	0.0						
5		60%			SP	Sand, brown, dry, loose, fine-grained, some iron mottling, no hydrocarbon odor.	
	0.0						
	0.0						
	0.0						
10		50%				Weathered sandstone, some iron staining.	
	0.0				SP	Sand, gray, poorly-graded.	
	0.0						
	0.0						
15		80%			SW	Sand, silty, gray, well-graded.	
	0.0						
	0.0					Sandstone, red/orangish to gray at 28', moist at 29.5', relatively soft, hydrocarbon staining from 23.5-25', hydrocarbon odor from 22-30'.	
	0.0						
	0.0						
20	72.8	90%					
	150						
	15,000						
	15,000						
	15,000						
25							

Continued Next Page

Drilling Log 2016 MILES FEDERAL LOGS.GPJ MWH IA.GDT 9/14/21

Drilling Log

Stantec

Monitoring Well **MW-1R**

Page: 2 of 2

Project *Miles Federal #1A* Client *El Paso CGP Company, LLC*

Location *Rio Arriba County, New Mexico* Project Number *193710308*

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	
25	NR	30%					
	NR						
	NR						
	15,000						
▽ 30	569.6						
	NR	30%					
	NR						
	NR						
	12.8					Sand (weathered sandstone), brown, wet at 36.5', poorly-graded, no hydrocarbon odor.	
	40.3						
35	236.6				SP		
	NR	60%					
	0.0						
	14.6				CL	Clayey sand/shale, dry at 38'.	
	6.1					Weathered sandstone, gray, wet	
	0.0						
40	NR	50%					
	NR						
	8.8						
	8.8						
	0.0						
	3.2						
45					SW	Sand, well-graded.	
						End of boring = 46'.	
50							
55							

Drilling Log 2016 MILES FEDERAL LOGS.GPJ MWH IA.GDT 9/14/21

APPENDIX D

DATE 05-21-21 DEL. TKT#.

GENERATOR: EL PASO BILL TO: EL PASO

HAULING CO. Stratac DRIVER: Sean Clary
(Print Full Name)

ORDERED BY: Joe Wiley CODES:

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

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Standard Oil Com #1 Knight #1 / GCU #124E		120				
2		GCU Com A #142E					'21 MAY 21 3:23 PM	
3		Johnston Fed #4 / #6A						
4		Sundoval GC A #1A /						
5		CANADA MESA #2 K-27-20S-32E, Miley Fed #1A						

I, Joe Wiley, 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 _____

SAN JUAN PRINTING 2020 1973-1

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 814083
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 8-1-21
GENERATOR: Stout Tec
HAULING CO. Envirotech
ORDERED BY: Steven Vasc

DEL. TKT#.
BILL TO: Stout Tec
DRIVER: Daniel
(Print Full Name)
CODES:

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

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	928	San Juan River Gas Plant	1	70			280	
2		Mile Federal 1A	8					
3								
4								
5								

I, Daniel, 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 _____

SAN JUAN PRINTING 2020 1973-1

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 817438
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11-11-21
GENERATOR: El Paso CGP
HAULING CO. Stanlee
ORDERED BY: Jeff W.

DEL. TKT#.
BILL TO: El Paso CGP
DRIVER: Sean
(Print Full Name)
CODES:

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

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Canada Mesa #2	1	120			Tot	
2		K-27 LD072					'21 NOV 11 4:23PM	
3		Miles Federal #1A						
4		Standard Oil Com #1						
5								

I, _____, 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 _____

SAN JUAN PRINTING 2020 1973-1

APPENDIX E

envirotech

Bill of Lading

MANIFEST # 69446
GENERATOR El Paso
POINT OF ORIGIN Miles Fed 1A
TRANSPORTER Envirotech
DATE 08-31-22 JOB # 14073-0057

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 II-5	Cuttings	A31		5	-	-	978	1245	Dawonrass
					5					

RESULTS		
2286	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE: Gary Robinson Gw

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

NOTES

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

APPENDIX F

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-203718-1
Client Project/Site: Miles Fed 1A

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

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
5/26/2021 5:59:28 PM

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

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Laboratory Job ID: 400-203718-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Glossary

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

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Job ID: 400-203718-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-203718-1

Comments
No additional comments.

Receipt
The samples were received on 5/21/2021 9:07 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5º C.

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

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Client Sample ID: TB-01 — Lab Sample ID: 400-203718-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-203718-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	8.1		1.0		ug/L	1		8260C	Total/NA
Toluene	2.3		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	20		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	86		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 400-203718-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	8.1		1.0		ug/L	1		8260C	Total/NA
Toluene	2.3		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	22		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	88		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 400-203718-4

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-203718-5

No Detections.

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-203718-1	TB-01	Water	05/19/21 15:00	05/21/21 09:07	
400-203718-2	DUP-01	Water	05/19/21 17:00	05/21/21 09:07	
400-203718-3	MW-1	Water	05/19/21 16:00	05/21/21 09:07	
400-203718-4	MW-2	Water	05/19/21 16:05	05/21/21 09:07	
400-203718-5	MW-3	Water	05/19/21 16:11	05/21/21 09:07	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Client Sample ID: TB-01

Date Collected: 05/19/21 15:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/24/21 13:35	1
Toluene	<1.0		1.0		ug/L			05/24/21 13:35	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 13:35	1
Xylenes, Total	<10		10		ug/L			05/24/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*05/24/21 13:35*	*1*
Dibromofluoromethane	*98*		*81 - 121*		*05/24/21 13:35*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/24/21 13:35*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Client Sample ID: DUP-01
Date Collected: 05/19/21 17:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-2
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**8.1**		1.0		ug/L			05/24/21 13:59	1
Toluene	**2.3**		1.0		ug/L			05/24/21 13:59	1
Ethylbenzene	**20**		1.0		ug/L			05/24/21 13:59	1
Xylenes, Total	**86**		10		ug/L			05/24/21 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*05/24/21 13:59*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/24/21 13:59*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*05/24/21 13:59*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Client Sample ID: MW-1

Date Collected: 05/19/21 16:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.1		1.0		ug/L			05/24/21 11:10	1
Toluene	2.3		1.0		ug/L			05/24/21 11:10	1
Ethylbenzene	22		1.0		ug/L			05/24/21 11:10	1
Xylenes, Total	88		10		ug/L			05/24/21 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*05/24/21 11:10*	*1*
Dibromofluoromethane	*107*		*81 - 121*		*05/24/21 11:10*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/24/21 11:10*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Client Sample ID: MW-2

Date Collected: 05/19/21 16:05
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-4

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			05/24/21 14:23	1
Toluene	<1.0		1.0		ug/L			05/24/21 14:23	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 14:23	1
Xylenes, Total	<10		10		ug/L			05/24/21 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*05/24/21 14:23*	*1*
Dibromofluoromethane	*96*		*81 - 121*		*05/24/21 14:23*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/24/21 14:23*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Client Sample ID: MW-3

Date Collected: 05/19/21 16:11
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-5

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			05/24/21 14:48	1
Toluene	<1.0		1.0		ug/L			05/24/21 14:48	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 14:48	1
Xylenes, Total	<10		10		ug/L			05/24/21 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*05/24/21 14:48*	*1*
Dibromofluoromethane	*95*		*81 - 121*		*05/24/21 14:48*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/24/21 14:48*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

GC/MS VOA

Analysis Batch: 532949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-203718-1	TB-01	Total/NA	Water	8260C	
400-203718-2	DUP-01	Total/NA	Water	8260C	
400-203718-3	MW-1	Total/NA	Water	8260C	
400-203718-4	MW-2	Total/NA	Water	8260C	
400-203718-5	MW-3	Total/NA	Water	8260C	
MB 400-532949/4	Method Blank	Total/NA	Water	8260C	
LCS 400-532949/1002	Lab Control Sample	Total/NA	Water	8260C	
400-203718-3 MS	MW-1	Total/NA	Water	8260C	
400-203718-3 MSD	MW-1	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

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

Lab Sample ID: MB 400-532949/4
Matrix: Water
Analysis Batch: 532949

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			05/24/21 10:45	1
Toluene	<1.0		1.0		ug/L			05/24/21 10:45	1
Ethylbenzene	<1.0		1.0		ug/L			05/24/21 10:45	1
Xylenes, Total	<10		10		ug/L			05/24/21 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*05/24/21 10:45*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*05/24/21 10:45*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/24/21 10:45*	*1*

Lab Sample ID: LCS 400-532949/1002
Matrix: Water
Analysis Batch: 532949

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	55.3		ug/L		111	70 - 130		
Toluene			50.0	51.5		ug/L		103	70 - 130		
Ethylbenzene			50.0	54.0		ug/L		108	70 - 130		
Xylenes, Total			100	108		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*106*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 400-203718-3 MS
Matrix: Water
Analysis Batch: 532949

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	8.1		50.0	57.6		ug/L		99	56 - 142		
Toluene	2.3		50.0	50.4		ug/L		96	65 - 130		
Ethylbenzene	22		50.0	65.3		ug/L		86	58 - 131		
Xylenes, Total	88		100	163		ug/L		76	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*112*		*80 - 120*

Lab Sample ID: 400-203718-3 MSD
Matrix: Water
Analysis Batch: 532949

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	8.1		50.0	55.7		ug/L		95	56 - 142	3	30
Toluene	2.3		50.0	43.7		ug/L		83	65 - 130	14	30
Ethylbenzene	22		50.0	61.8		ug/L		79	58 - 131	5	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

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

Lab Sample ID: 400-203718-3 MSD
Matrix: Water
Analysis Batch: 532949

Client Sample ID: MW-1
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	88		100	160		ug/L		72	59 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

Client Sample ID: TB-01
Date Collected: 05/19/21 15:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-1
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	532949	05/24/21 13:35	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: DUP-01
Date Collected: 05/19/21 17:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-2
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	532949	05/24/21 13:59	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-1
Date Collected: 05/19/21 16:00
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-3
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	532949	05/24/21 11:10	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-2
Date Collected: 05/19/21 16:05
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-4
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	532949	05/24/21 14:23	CAR	TAL PEN
	Instrument ID: Argo									

Client Sample ID: MW-3
Date Collected: 05/19/21 16:11
Date Received: 05/21/21 09:07

Lab Sample ID: 400-203718-5
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	532949	05/24/21 14:48	CAR	TAL PEN
	Instrument ID: Argo									

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-203718-1
Project/Site: Miles Fed 1A

Laboratory: Eurofins TestAmerica, Pensacola

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

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

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-203718-1

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

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

Chain of Custody Record

400-203718 COC

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Client Information	Sampler: SRC, MW	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-102797-36532.1
Client Contact: Steve Varsa	Phone: 913-980-0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 303-291-2239(Tel)	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: ~~Standard Oil Company No Synonyms~~ MILES FED #1A	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, Z - other (specify)

Other:

ERG - STW - 05-06-21 - SRC

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	Total Number of containers	Special Instructions/Note:
			Preservation Code:				8260C - Unpreserved		
TB-01	5/19/2021	1500	G	Water			2	2	Trip Blank
DUP-01	5/19/2021	1700	G	Water			3	3	Duplicate
MW-1	5/19/2021	1600	G	Water			3	3	
MW-2	5/19/2021	1605	G	Water			3	3	
MW-3	5/19/2021	1611	G	Water			3	3	
				Water					
				Water					
				Water					

SRC SRC

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	Sean N Clary	5/20/2021 0800	STW	FedEx	5/20/2021 0800	FedEx
2		Date/Time:	Company		5/21/21 907	GTA Rep
3		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: 3.5°C IR8

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-203718-1

Login Number: 203718 **List Source: Eurofins TestAmerica, 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	3.5°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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 400-211186-1
Client Project/Site: Miles Fed 1A

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

Attn: Steve Varsa

Cheyenne Whitmire

Authorized for release by:
11/29/2021 8:54:25 PM

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

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

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

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

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Laboratory Job ID: 400-211186-1

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Job ID: 400-211186-1
Project/Site: Miles Fed 1A

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

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Job ID: 400-211186-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-211186-1

Comments
No additional comments.

Receipt
The samples were received on 11/13/2021 9:08 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 1.4º C.

GC/MS VOA
Method 8260C: The matrix spike (MS) recoveries for analytical batch 400-556189 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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: Miles Fed 1A

Job ID: 400-211186-1

Client Sample ID: TB-01 — Lab Sample ID: 400-211186-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-211186-2

No Detections.

Client Sample ID: MW-2 — Lab Sample ID: 400-211186-3

No Detections.

Client Sample ID: MW-3 — Lab Sample ID: 400-211186-4

No Detections.

Client Sample ID: MW-1R — Lab Sample ID: 400-211186-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-211186-1	TB-01	Water	11/11/21 12:00	11/13/21 09:08
400-211186-2	DUP-01	Water	11/11/21 14:00	11/13/21 09:08
400-211186-3	MW-2	Water	11/11/21 13:05	11/13/21 09:08
400-211186-4	MW-3	Water	11/11/21 13:12	11/13/21 09:08
400-211186-5	MW-1R	Water	11/11/21 13:00	11/13/21 09:08

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Client Sample ID: TB-01

Date Collected: 11/11/21 12:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211186-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/21 15:13	1
Toluene	<1.0		1.0		ug/L			11/21/21 15:13	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/21 15:13	1
Xylenes, Total	<10		10		ug/L			11/21/21 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*72 - 119*		*11/21/21 15:13*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/21/21 15:13*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/21/21 15:13*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Client Sample ID: DUP-01

Date Collected: 11/11/21 14:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211186-2

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			11/17/21 12:16	1
Toluene	<1.0		1.0		ug/L			11/17/21 12:16	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/21 12:16	1
Xylenes, Total	<10		10		ug/L			11/17/21 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*72 - 119*		*11/17/21 12:16*	*1*
Dibromofluoromethane	*104*		*75 - 126*		*11/17/21 12:16*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/17/21 12:16*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Client Sample ID: MW-2

Lab Sample ID: 400-211186-3

Date Collected: 11/11/21 13:05
Matrix: Water
Date Received: 11/13/21 09:08

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/21/21 15:38	1
Toluene	<1.0		1.0		ug/L			11/21/21 15:38	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/21 15:38	1
Xylenes, Total	<10		10		ug/L			11/21/21 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 119*		*11/21/21 15:38*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*11/21/21 15:38*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/21/21 15:38*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Client Sample ID: MW-3

Date Collected: 11/11/21 13:12
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211186-4

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			11/21/21 16:03	1
Toluene	<1.0		1.0		ug/L			11/21/21 16:03	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/21 16:03	1
Xylenes, Total	<10		10		ug/L			11/21/21 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*119*		*72 - 119*		*11/21/21 16:03*	*1*
Dibromofluoromethane	*107*		*75 - 126*		*11/21/21 16:03*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/21/21 16:03*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Client Sample ID: MW-1R

Date Collected: 11/11/21 13:00
Date Received: 11/13/21 09:08

Lab Sample ID: 400-211186-5

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			11/17/21 12:42	1
Toluene	<1.0		1.0		ug/L			11/17/21 12:42	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/21 12:42	1
Xylenes, Total	<10		10		ug/L			11/17/21 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 119*		*11/17/21 12:42*	*1*
Dibromofluoromethane	*105*		*75 - 126*		*11/17/21 12:42*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*11/17/21 12:42*	*1*

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

GC/MS VOA

Analysis Batch: 556189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211186-2	DUP-01	Total/NA	Water	8260C	
400-211186-5	MW-1R	Total/NA	Water	8260C	
MB 400-556189/4	Method Blank	Total/NA	Water	8260C	
LCS 400-556189/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211182-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
400-211182-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 556817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-211186-1	TB-01	Total/NA	Water	8260C	
400-211186-3	MW-2	Total/NA	Water	8260C	
400-211186-4	MW-3	Total/NA	Water	8260C	
MB 400-556817/5	Method Blank	Total/NA	Water	8260C	
LCS 400-556817/1002	Lab Control Sample	Total/NA	Water	8260C	
400-211165-C-4 MS	Matrix Spike	Total/NA	Water	8260C	
400-211165-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

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

Lab Sample ID: MB 400-556189/4
Matrix: Water
Analysis Batch: 556189

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			11/17/21 10:32	1
Toluene	<1.0		1.0		ug/L			11/17/21 10:32	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/21 10:32	1
Xylenes, Total	<10		10		ug/L			11/17/21 10:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*72 - 119*		*11/17/21 10:32*	*1*
Dibromofluoromethane	*108*		*75 - 126*		*11/17/21 10:32*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/17/21 10:32*	*1*

Lab Sample ID: LCS 400-556189/1002
Matrix: Water
Analysis Batch: 556189

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	51.1		ug/L		102	70 - 130		
Toluene			50.0	56.9		ug/L		114	70 - 130		
Ethylbenzene			50.0	58.2		ug/L		116	70 - 130		
Xylenes, Total			100	116		ug/L		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*85*		*72 - 119*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*103*		*64 - 132*

Lab Sample ID: 400-211182-A-3 MS
Matrix: Water
Analysis Batch: 556189

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	58.7		ug/L		117	56 - 142		
Toluene	<1.0		50.0	64.8		ug/L		130	65 - 130		
Ethylbenzene	<1.0	F1	50.0	65.8	F1	ug/L		132	58 - 131		
Xylenes, Total	<10	F1	100	131	F1	ug/L		131	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*72 - 119*
Dibromofluoromethane	*101*		*75 - 126*
Toluene-d8 (Surr)	*104*		*64 - 132*

Lab Sample ID: 400-211182-A-3 MSD
Matrix: Water
Analysis Batch: 556189

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	57.2		ug/L		114	56 - 142	3	30
Toluene	<1.0		50.0	63.5		ug/L		127	65 - 130	2	30
Ethylbenzene	<1.0	F1	50.0	63.4		ug/L		127	58 - 131	4	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

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

Lab Sample ID: 400-211182-A-3 MSD
Matrix: Water
Analysis Batch: 556189

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	F1	100	128		ug/L		128	59 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*72 - 119*
Dibromofluoromethane	*100*		*75 - 126*
Toluene-d8 (Surr)	*105*		*64 - 132*

Lab Sample ID: MB 400-556817/5
Matrix: Water
Analysis Batch: 556817

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			11/21/21 09:21	1
Toluene	<1.0		1.0		ug/L			11/21/21 09:21	1
Ethylbenzene	<1.0		1.0		ug/L			11/21/21 09:21	1
Xylenes, Total	<10		10		ug/L			11/21/21 09:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*72 - 119*		*11/21/21 09:21*	*1*
Dibromofluoromethane	*106*		*75 - 126*		*11/21/21 09:21*	*1*
Toluene-d8 (Surr)	*93*		*64 - 132*		*11/21/21 09:21*	*1*

Lab Sample ID: LCS 400-556817/1002
Matrix: Water
Analysis Batch: 556817

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	48.9		ug/L		98	70 - 130		
Toluene			50.0	45.4		ug/L		91	70 - 130		
Ethylbenzene			50.0	46.8		ug/L		94	70 - 130		
Xylenes, Total			100	92.3		ug/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*79*		*72 - 119*
Dibromofluoromethane	*102*		*75 - 126*
Toluene-d8 (Surr)	*92*		*64 - 132*

Lab Sample ID: 400-211165-C-4 MS
Matrix: Water
Analysis Batch: 556817

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	45.4		ug/L		91	56 - 142		
Toluene	<1.0		50.0	40.1		ug/L		80	65 - 130		
Ethylbenzene	<1.0		50.0	39.9		ug/L		80	58 - 131		
Xylenes, Total	<10		100	79.0		ug/L		79	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

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

Lab Sample ID: 400-211165-C-4 MS
Matrix: Water
Analysis Batch: 556817

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	85		72 - 119
Dibromofluoromethane	103		75 - 126
Toluene-d8 (Surr)	92		64 - 132

Lab Sample ID: 400-211165-C-4 MSD
Matrix: Water
Analysis Batch: 556817

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	47.1		ug/L		94	56 - 142	4	30
Toluene	<1.0		50.0	41.7		ug/L		83	65 - 130	4	30
Ethylbenzene	<1.0		50.0	40.6		ug/L		81	58 - 131	2	30
Xylenes, Total	<10		100	80.9		ug/L		81	59 - 130	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	90		72 - 119
Dibromofluoromethane	103		75 - 126
Toluene-d8 (Surr)	92		64 - 132

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Client Sample ID: TB-01

Lab Sample ID: 400-211186-1

Date Collected: 11/11/21 12:00

Matrix: Water

Date Received: 11/13/21 09:08

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	556817	11/21/21 15:13	EEH	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: DUP-01

Lab Sample ID: 400-211186-2

Date Collected: 11/11/21 14:00

Matrix: Water

Date Received: 11/13/21 09:08

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	556189	11/17/21 12:16	BPO	TAL PEN
	Instrument ID: CH_TAN									

Client Sample ID: MW-2

Lab Sample ID: 400-211186-3

Date Collected: 11/11/21 13:05

Matrix: Water

Date Received: 11/13/21 09:08

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	556817	11/21/21 15:38	EEH	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-3

Lab Sample ID: 400-211186-4

Date Collected: 11/11/21 13:12

Matrix: Water

Date Received: 11/13/21 09:08

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	556817	11/21/21 16:03	EEH	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-1R

Lab Sample ID: 400-211186-5

Date Collected: 11/11/21 13:00

Matrix: Water

Date Received: 11/13/21 09:08

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	556189	11/17/21 12:42	BPO	TAL PEN
	Instrument ID: CH_TAN									

Laboratory References:

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

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

Laboratory: Eurofins TestAmerica, Pensacola

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

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

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Fed 1A

Job ID: 400-211186-1

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

Eurofins TestAmerica, 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: SRC	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-105805-37680.1
Client Contact: Steve Varsa	Phone: 913-980-0281	E-Mail: Marty.Edwards@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days):			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 303-291-2239(Tel)	PO #: WD801934			
Email: steve.varsa@stantec.com	WO #:			
Project Name: Miles Fed 1A.00 Semi-annua	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

400-211186 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, Z - other (specify)

Other:

LW - ERG - STW - 10 - 21 - 21
SAH - 12

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		
TB-01	11/11/21	1200	G	Water			2		2	Trip Blank
~~MW-2R~~ DUP-01	11/11/21	1400	G	Water				3	3	Blind Dup
MW-2	11/11/21	1305	G	Water			3		3	
MW-3	11/11/21	1312	G	Water			3		3	
MW-1R	11/11/21	1300	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: 11/12/21 1230	Company STW	Received by:
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by: AH

Received by:	Date/Time:	Company
Received by:	Date/Time:	Company
Received by: AH	Date/Time: 11.13.21 09:08	Company

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

Cooler Temperature(s) °C and Other Remarks: 1.4°C IR7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-211186-1

Login Number: 211186 **List Source: Eurofins TestAmerica, 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	1.4°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

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

CONDITIONS

Action 94615

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 94615
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See app ID 144205 for most updated status.	10/28/2022