State of New Mexico
Energy, Minerals and Natural Resources Department

**Michele Lujan Grisham**
Governor

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Cabinet Secretary

**Todd E. Leahy, JD, PhD**
Deputy Cabinet Secretary

**Adrienne Sandoval**
Director, Oil Conservation Division

Joseph Wiley, P.G.
Project Manager
El Paso Natural Gas Company, L.L.C
1001 Louisiana Street, Suite 1000
Houston, TX 77002

**Subject: Conditional Closure of Remediation Project – Well Plug and Abandonment Action Requirements Miles Federal #001A (Incident # NAUTOFAB000391; Administrative Order # 3RP-223-0)**

Mr. Wiley,

Oil Conservation Division (OCD) has reviewed the file on the release referenced above. The available information indicates El Paso Natural Gas Company, L.L.C (EPNG) has met the requirements per Paragraph 6 of Subsection A of 19.15.30.12 NMAC and 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 OCD in correspondence dated, November 30, 1995; and the OCD approval conditions were adopted into EPNG's program methods thereafter.

No further corrective actions are required.

The referenced remediation project is closed under the condition the remaining monitoring wells be plugged and abandoned (P&A) per requirements of the New Mexico Office of the State Engineer (NMOSE).

OCD requires EPNG to provide proof of the NMOSE Well Plugging Plan approval. Final documentation showing completion of the P&A for each monitor well is required to be processed via OCD's appropriate e-permitting portal.

Upon reception and approval of the P&A completion, OCD will then deem the site administratively closed.

This finding by the OCD does not relieve EPNG of responsibility if future information shows a threat to ground water, surface water, human health, or the environment. Further, it does not relieve EPNG of responsibility for compliance with any federal, state, or local law.

If you have any questions, please contact Nelson Velez of the Environmental Incident Group at (505) 469-6146 or by email at *nelson.velez@state.nm.us*. On behalf of the OCD, I wish to thank you and your staff for your cooperation during this remediation/abatement process.

Respectfully,

Michael Bratcher
Incident Group Supervisor
(575) 626-0857

Nelson Velez
Environmental Specialist – Adv
(505) 469-6146



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Stantec Consulting Services Inc.
11311 Aurora Avenue
Des Moines, Iowa 50322
Phone: (515) 253-0830
Fax: (515) 253-9592

**VIA ELECTRONIC SUBMITTAL**

September 16, 2022
Mr. Nelson Velez, Environmental Specialist - Advanced
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

**RE:** Groundwater Monitoring Report and Request for Site Closure
Miles Federal #1A
NMOCD Incident No. nAUTOfAB000391

Dear Mr. Velez:

Stantec Consulting Services Inc. (Stantec), on behalf of El Paso CGP Company, LLC (EPCGP), requests regulatory closure of the Miles Federal #1A site (site, NMOCD Incident No. nAUTOfAB000391). This correspondence documents the analytical results from the March, May, and August 2022 site monitoring events, completed in accordance with the Remediation Plan approved by the New Mexico Oil Conservation Division (NMOCD) on November 30, 1995. Notifications to NMOCD for the 2022 field activities are included in Attachment A. EPCGP is requesting closure of the site based on the data obtained and the closure criteria outlined in the Remediation Plan.

**Site Background**

The Site is located on Federal land managed by the Bureau of Land Management (BLM). Currently, the Site is operated by Cross Timbers Energy, LLC and is an active natural gas production well site. The location of the Site is depicted on Figure 1. The location of the disposal pit and other pertinent features is depicted on Figure 2.

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). Due to accessibility and safety issues on site, the NMOCD agreed (October 14, 2014, meeting with Glen VonGotten and Jim Griswold) that no further delineation was required. Soil borings DP-1 and DP-2 were advanced in 2016 and the analytical results for the soil samples collected are summarized in Table 1. Mobile dual-phase extraction events were conducted from monitoring well MW-1 on September 19 and 20, 2017, removing a total of 0.4 equivalent gallons of hydrocarbons as vapor, and 238 gallons of water.

In August 2021, monitoring well MW-1, which had historically been nearly dry, was abandoned and replaced with a deeper replacement well (MW-1R) expected to provide more representative groundwater samples from this location to move the Site toward regulatory closure. Historically, light non-aqueous phase liquid (LNAPL) was



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**Reference: Groundwater Monitoring Report and Request for Site Closure**

detected in MW-1 as summarized in Table 2, but at the time it was abandoned and replaced with MW-1R, LNAPL had not been encountered in MW-1 in over 11 years. The 2021 activities were summarized in the 2021 annual report for the Site. For reference, copies of the site soil boring logs and well construction diagrams are included as Attachment B.

## 2022 Groundwater Monitoring

In March, May, and August 2022, groundwater samples were collected at the Site. Prior to collecting groundwater samples, the site monitoring wells were gauged with an oil-water interface probe to verify the absence of LNAPL and determine groundwater elevations. Measurable LNAPL was not detected in any of the monitoring wells gauged, as summarized in Table 2. The groundwater elevation data from the March, May, and August 2022 events indicated a groundwater flow direction to the northwest, as summarized in Table 2 and depicted in Figures 3, 5, and 7 respectively, which is consistent with previous gauging data.

Since June 2013, groundwater samples have been collected using HydraSleeves™. HydraSleeve™ sampling devices provide no-purge groundwater samples from the undisturbed water column and have been proven in independent testing to provide groundwater quality data comparable to low-flow groundwater sampling methods. The HydraSleeves™ were set during the previous sampling event approximately 0.5 foot above termination depth of the monitoring wells using a suspension tether and stainless-steel weights. During the following sample event, field personnel collected a direct, undisturbed sample from the water column in the screened interval of each well by pulling the HydraSleeve™ from the well.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocol to Eurofins Environment Testing Southeast, LLC (formerly Test America) where they were analyzed for benzene, toluene, ethylbenzene, and total xylene (BTEX). Based on the historical presence of LNAPL in MW-1 and the former pit, and due to the total petroleum hydrocarbon (TPH) concentration in soil at nearby soil boring DP-1, the March 2022 groundwater sample from MW-1R was also analyzed for selected semi-volatile organic compounds (SVOCs). Following the collection of samples, purged groundwater generated during the sampling was disposed of either at Basin Disposal, Inc. (March), or at the Envirotech, Inc. landfarm (May and August), both located near Bloomfield, New Mexico. Groundwater disposal documentation is provided in Attachment C.

**Reference: Groundwater Monitoring Report and Request for Site Closure**

The analytical results from the March, May, and August 2022 groundwater sampling events indicate BTEX constituents and SVOCs were below laboratory detection limits. Groundwater BTEX concentrations in MW-1R have therefore been below applicable New Mexico Water Quality Control Commission (NMWQCC) standards for the past four calendar quarters. Groundwater BTEX concentrations in MW-2 and MW-3 have continued to be below detection limits and have never exceeded NMWQCC standards.

The groundwater BTEX results from the March, May, and August 2022 events are summarized in Table 3, and depicted in Figures 4, 6, and 8, respectively. The analytical results for SVOCs in MW-1R are summarized in Table 4. The laboratory analytical reports for the sampling events are provided in Attachment D.

## Request for Site Closure

Groundwater samples have been obtained from monitoring wells MW-1R, MW-2, and MW-3, at concentrations below the applicable NMWQCC standards for four consecutive quarters as required in the Remediation Work Plan. Based on the results of assessment, remediation, and monitoring activities completed at the Site, EPCGP respectfully requests the NMOCD grant site closure for this case.

If you have any comments or questions concerning this correspondence, please contact me or Joseph Wiley with EPCGP at (713) 420-3475.

Sincerely,

**Stantec Consulting Services Inc.**

Stephen Varsa, P.G.
Project Manager
Phone: (515) 251-1020
steve.varsa@stantec.com

/csh:srv:see;rsm

cc: Joseph Wiley, EPCGP
Virginia Barber, BLM

**Reference: Groundwater Monitoring Report and Request for Site Closure**

Tables:

- Table 1 – Soil Analytical Results
- Table 2 – Groundwater Elevation Results
- Table 3 - Groundwater BTEX Analytical Results
- Table 4 – Groundwater SVOC Analytical Results

Figures:

- Figure 1 – Site Location
- Figure 2 - Site Plan
- Figure 3 – Groundwater Elevation Map March 21, 2022
- Figure 4 - Groundwater Analytical Results March 21, 2022
- Figure 5 – Groundwater Elevation Map May 22, 2022
- Figure 6 –Groundwater Analytical Results May 22, 2022
- Figure 7 – Groundwater Elevation Map August 2, 2022
- Figure 8 – Groundwater Analytical Results August 2, 2022

Attachments:

- Attachment A – Notifications to NMOCD
- Attachment B – Boring Logs and Well Construction Details
- Attachment C – Groundwater Disposal Documentation
- Attachment D – Laboratory Analytical Reports

**TABLES**

Table 1 – Soil Analytical Results

Table 2 – Groundwater Elevation Results

Table 3 – Groundwater BTEX Elevation Results

Table 4 – Groundwater SVOC Analytical Results

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# TABLE 1 - SOIL ANALYTICAL RESULTS

| Miles Federal #1A | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location (depth in feet bgs)** | **Date (mm/dd/yy)** | **Benzene (mg/kg)** | **Toluene (mg/kg)** | **Ethylbenzene (mg/kg)** | **Total Xylenes (mg/kg)** | **BTEX Total (mg/kg)** | **GRO C6-10 (mg/kg)** | **DRO C10-28 (mg/kg)** | **MRO C28-35 (mg/kg)** | **TPH (mg/kg)** | **Chloride (mg/kg)** |
| NMOCD Criteria: | | 10 | NE | NE | NE | 50 | NE | NE | NE | 100 | 600 |
| DP-1 (17-18) | 05/22/16 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 480 |
| DP-1 (19-20) | 05/22/16 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 470 |
| DP-1 (27-28) | 05/22/16 | 0.23 | 1.8 | 3.6 | 13 | 18.63 | 500 | 13 | BRL | **513** | **640** |
| DP-2 (16.5-17.5) | 05/22/16 | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | 100 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Notes:

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

# 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 |
| 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 |

# 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 | 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 |
| MW-1R | 03/21/22 | 6048.97 | ND | 31.12 | | 6017.85 |
| MW-1R | 05/22/22 | 6048.97 | ND | 31.33 | | 6017.64 |
| MW-1R | 08/02/22 | 6048.97 | ND | 30.30 | | 6018.67 |
| | | | | | | |
| 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 |

# 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 | 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 |
| 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-2 | 03/21/22 | 6049.22 | ND | 31.22 | | 6018.00 |
| MW-2 | 05/22/22 | 6049.22 | ND | 31.46 | | 6017.76 |
| MW-2 | 08/02/22 | 6049.22 | ND | 30.53 | | 6018.69 |
| | | | | | | |
| 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 |

# 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 | 07/17/03 | 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 |
| 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 |

# 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 | 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 |
| MW-3 | 03/21/22 | 6049.32 | ND | 30.78 | | 6018.54 |
| MW-3 | 05/22/22 | 6049.32 | ND | 31.00 | | 6018.32 |
| MW-3 | 08/02/22 | 6049.32 | ND | 29.75 | | 6019.57 |

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

# TABLE 3 - GROUNDWATER BTEX 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 |

# TABLE 3 - GROUNDWATER BTEX ANALYTICAL RESULTS

| Miles Fed 1A | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| MW-1 | 09/27/10 | NS | NS | NS | NS |
| 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 |
| MW-1R | 03/21/22 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-01(MW-1R) | 03/21/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-1R | 05/22/22 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-01(MW-1R) | 05/22/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-1R | 08/02/22 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-01(MW-1R) | 08/02/22 | <1.0 | <1.0 | <1.0 | <10 |

# TABLE 3 - GROUNDWATER BTEX 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 |
| 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 |

# TABLE 3 - GROUNDWATER BTEX ANALYTICAL RESULTS

| Miles Fed 1A | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| 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-2 | 03/21/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-2 | 05/22/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-2 | 08/02/22 | <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 |
| 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 |

# TABLE 3 - GROUNDWATER BTEX ANALYTICAL RESULTS

| Miles Fed 1A | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| 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 |
| MW-3 | 03/21/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-3 | 05/22/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-3 | 08/02/22 | <1.0 | <1.0 | <1.0 | <10 |

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

Released to Imaging: 12/8/2022 10:49:53 AM
Received by OCD: 9/16/2022 3:34:40 PM

# TABLE 4 - GROUNDWATER SVOC ANALYTICAL RESULTS

| Miles Federal #1A | | | | | | |
|---|---|---|---|---|---|---|
| **Location** | **Date** | **1-Methylnaphthalene (µg/L)** | **2-Methylnaphthalene (µg/L)** | **Naphthalene (µg/L)** | **Total Naphthalene (µg/L)** | **Benzo(a)pyrene (µg/L)** |
| NMWQCC Standards: | | - | - | - | 30 | 0.7 |
| MW-1R | 03/21/22 | BRL | BRL | BRL | BRL | BRL |
| DUP-01 (MW-5) | 03/21/22 | BRL | BRL | BRL | BRL | BRL |

Notes:

µg/L = micrograms per liter

NMWQCC = New Mexico Water Quality Control Commission (NMWQCC)

"-" NMWQCC Standard is not established

"BRL" = analyte was not detected at the indicated reporting limit.

"PAH" = Polycyclic aromatic hydrocarbons

**FIGURES**

Figure 1: Site Location Map

Figure 2: Site Plan

Figure 3: Groundwater Elevation Map - March 21, 2022

Figure 4: Groundwater Analytical Results - March 21,2022

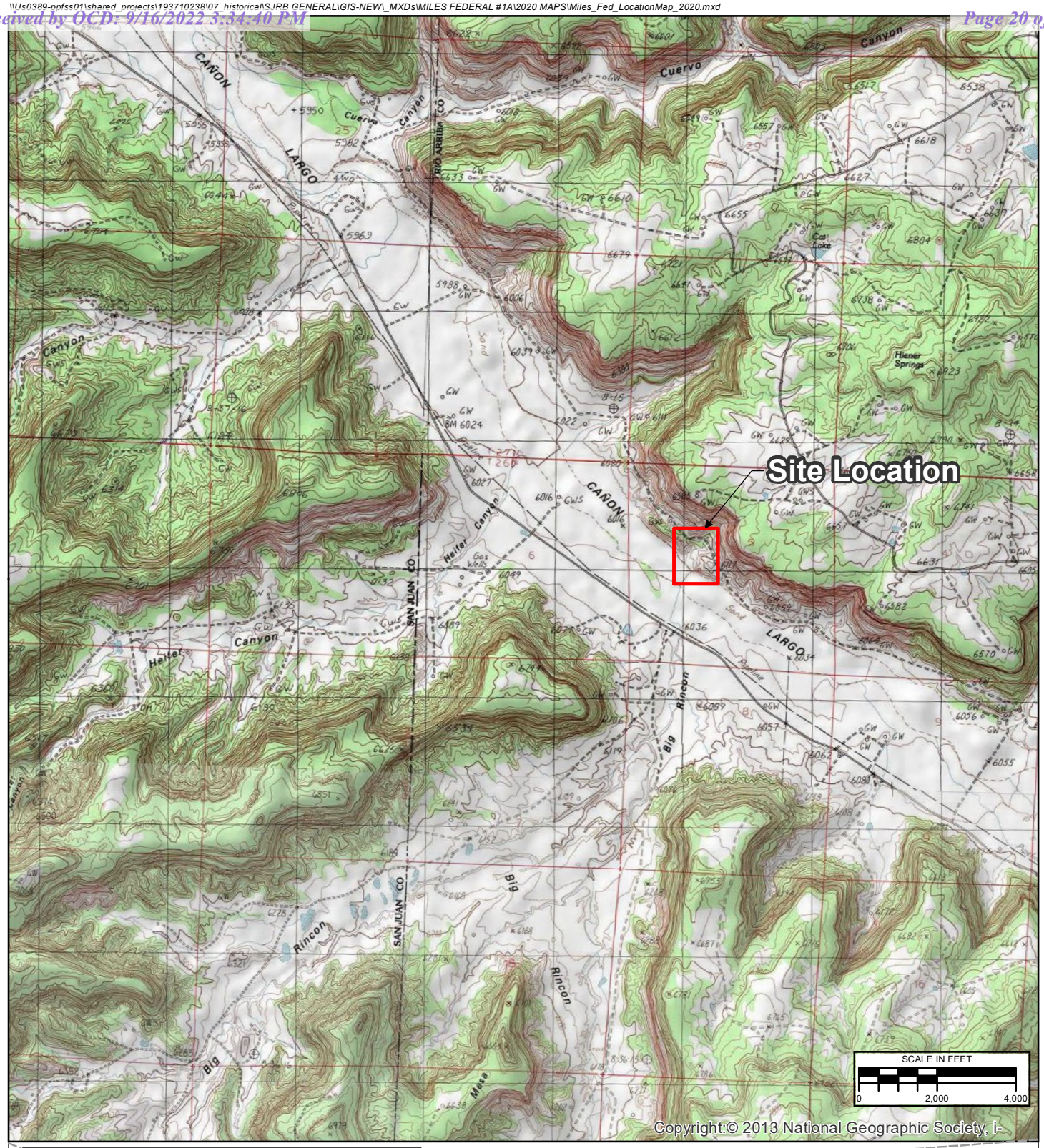
Figure 5: Groundwater Elevation Map - May 22, 2022

Figure 6: Groundwater Analytical Results - May 22,2022

Figure 7: Groundwater Elevation Map - August 2, 2022

FIgure 8: Groundwater Analytical Results - August 2, 2022

Received by OCD: 9/16/2022 3:34:40 PM



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**

Released to Imaging: 12/8/2022 10:49:53 AM

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\MILES FEDERAL #1A\2022 MAPS\Miles_Fed_SITEMAP_2022.mxd


## LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- SOIL BORING
- ABANDONED MONITORING WELL
- 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 |
|---|---|---|---|---|
| | 2022-09-14 | SLG | SLG | SRV |

TITLE:

**SITE PLAN**

PROJECT:

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

Stantec

Figure No.: **2**

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\MILES FEDERAL #1A\2022 MAPS\Miles_Fed_GECM_Q1_2022.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:**

6018.54 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

6018.0 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 |
|---|---|---|---|---|
| | 2022-09-02 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ELEVATION MAP**
**MARCH 21, 2022**

PROJECT:

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

Stantec

Figure No.: 3

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\MILES FEDERAL #1A\2022 MAPS\Miles_Fed_GARM_Q1_2022.mxd


## LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- X — 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
NA = NOT ANALYZED

| ANALYTE | NMWQCC STANDARDS |
|---|---|
| B = Benzene | 10 µg/L |
| T = Toluene | 750 µg/L |
| E = Ethylbenzene | 750 µg/L |
| X = Total Xylenes | 620 µg/L |
| Bap = Benzo(a)pyrene | 0.7 µg/L |
| TNap = Total Naphthalene | 30 ug/L |

N

SCALE IN FEET
0 40 80

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2022-09-14 | SAH | SAH | SRV |

TITLE:
**GROUNDWATER ANALYTICAL RESULTS**
**MARCH 21, 2022**

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\2022 MAPS\Miles_Fed_GECM_1SA_2022.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:**

6017.64 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

6017.2 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 |
|---|---|---|---|---|
| | 2022-09-01 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ELEVATION MAP**
**MAY 22, 2022**

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\2022 MAPS\Miles_Fed_GARM_1SA_2022.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:**

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**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 |
|---|---|---|---|---|
| | 2022-09-01 | SAH | SAH | SRV |

TITLE:

***GROUNDWATER ANALYTICAL RESULTS***
***MAY 22, 2022***

PROJECT:

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

Stantec

Figure No.: 6

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\MILES FEDERAL #1A\2022 MAPS\Miles_Fed_GECM_Q3_2022.mxd


## LEGEND:

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

**NOTES:**

6018.67 GROUNDWATER ELEVATION FEET ABOVE MEAN SEA LEVEL

6018.8 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 |
|---|---|---|---|---|
| | 2022-09-02 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ELEVATION MAP**
**AUGUST 2, 2022**

PROJECT:

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

Stantec

Figure No.: 7

\\Corp.ads\data\Virtual_Workspace\workgroup\1937\Active\193700102\03_data\gis_cad\gis\GIS-NEW_MXDs\MILES FEDERAL #1A\2022 MAPS\Miles_Fed_GARM_Q3_2022.mxd


## LEGEND:

- 6050 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — NATURAL GAS LINE
- FENCE
- GAS VALVE
- MONITORING WELL
- ABANDONED MONITORING WELL
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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 |
|---|---|---|---|---|
| | 2022-09-01 | SAH | SAH | SRV |

TITLE:

***GROUNDWATER ANALYTICAL RESULTS***
***AUGUST 2, 2022***

PROJECT:

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

Stantec

Figure No.: 8

**ATTACHMENTS**

Attachment A – NMOCD Notification of Site Activities

Attachment B – Boring Logs & Well Construction Details

Attachment C – Groundwater Disposal Documentation

Attachment D – Laboratory Analytical Reports

# ATTACHMENT 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:** Tuesday, March 15, 2022 5:13:49 PM

---

Hi Cory -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Miles Fed #1A | nAUTOfAB000391 | 03/21/2022 |

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

Thank you,
Steve

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

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

---

Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 5/21/2022 |
| Fields A#7A | nAUTOfAB000176 | 5/22/2022 |
| Fogelson 4-1 | nAUTOfAB000192 | 5/22/2022 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 5/19/2022 |
| GCU Com A #142E | nAUTOfAB000219 | 5/19/2022 |
| James F. Bell #1E | nAUTOfAB000291 | 5/18/2022 |
| Johnston Fed #4 | nAUTOfAB000305 | 5/20/2022 |
| Johnston Fed #6A | nAUTOfAB000309 | 5/20/2022 |
| K27 LDO72 | nAUTOfAB000316 | 5/21/2022 |
| Knight #1 | nAUTOfAB000324 | 5/19/2022 |
| Lateral L 40 Line Drip | nAUTOfAB000335 | 5/18/2022 |
| Miles Fed #1A | nAUTOfAB000391 | 5/21/2022 |
| Sandoval GC A #1A | nAUTOfAB000635 | 5/20/2022 |
| Standard Oil Com #1 | nAUTOfAB000666 | 5/21/2022 |
| State Gas Com N #1 | nAUTOfAB000668 | 5/22/2022 |

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

Thank you,
Steve

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

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**From:** Varsa, Steve
**To:** Nelson.Velez@state.nm.us
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities
**Date:** Monday, July 18, 2022 3:32:54 PM

---

Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 07/30/2022 |
| Miles Fed #1A | nAUTOfAB000391 | 07/30/2022 |

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

Thank you,
Steve

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

Page 34 of 112

03-72 Blanco

## RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location Miles Federal 1-A (CH) 94810

Elevation
Borehole Location QF-S5-T26-R7
GWL Depth 29.3 BGS
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 9/21/95 - 0902
Date/Time Completed 9/21/95 - 1210

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, O. Claclia
Contractors On-Site
Client Personnel On-Site
Drilling Method 4 1/4" ID HSA / 8 1/4 ID HSA
Air Monitoring Method PID, CGI

| Depth (Feet) | Sample Number | Sample Interval | Sample Type & Recovery (inches) | Sample Description Classification System: USCS | USCS Symbol | Depth Lithology Change (feet) | Air Monitoring Units: PPM BZ | BH | S HS | Drilling Conditions & Blow Counts |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | Backfill to 12' | | | | | | |
| 15 | 1 | 15-17 | 3" | DK gry clayey SAND, vf-f sand, v. loose, dry | | | 0 | 120 | 2398/1918 | -0909 hr |
| 20 | 2 | 20-22 | 18" | AA | | | 12 | 128 | 1995/1637 | -0915 |
| 25 | 3 | 25-26 | 5" | AA | | | 8 | 362 | 2358/1066 | -0926 |
| | | | | Br SANDSTONE, f-med sand, + vf sand, mod. cemented | | | | | | -Drlg v. hard w/ 8 1/4 |
| | | | | | | | | | | -GW@29.3' |
| 30 | 4 | 30-31 | 4" | Br SAND, vf-f sand, dense, saturated | | | 20-30 | 580 | 8/NA | -0940 |
| 35 | | | | CTNGS - gry clayey SAND, f sand, saturated | | | | | | -Refusal @ 34' w/ 8 1/4 augers |
| | | | | TDB 34' | | | | | | |
| 40 | | | | C | | | | | | |

Comments: GW@29.3BGS. No lab sample due to high PID readings. Pull 4 1/4 I.D @30' & go back down w/ 8 1/4 I.D. Augers. Add 25 gal potable water to BH to help drill. Well installed.

Geologist Signature Cory Chance

Received by OCD: 9/16/2022 3:34:40 PM
Released to Imaging: 12/8/2022 10:49:53 AM

Page 35 of 112

BLANCO
03-72

# MONITORING WELL INSTALLATION RECORD

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # MW-1
Page 1 of 1

Project Name EPNG Pits

Project Number 14509 Phase 6001.77
Project Location Miles Federal 1-A (CH) 94810

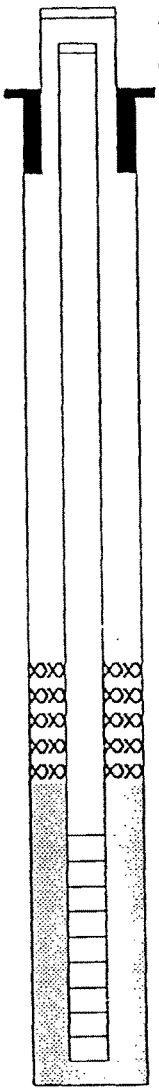
On-Site Geologist CM Chance
Personnel On-Site F. Rivera, D. Charlie
Contractors On-Site
Client Personnel On-Site

Elevation
Well Location QF-S5-T26-R7
GWL Depth 29.3 BGS
Installed By K. Padilla

Date/Time Started 9/21/95 - 1235
Date/Time Completed 9/21/95 - 1400

Depths in Reference to Ground Surface

| Item | Material | Depth |
|---|---|---|
| Top of Protective Casing | | NA |
| Bottom of Protective Casing | | NA |
| Top of Permanent Borehole Casing | | NA |
| Bottom of Permanent Borehole Casing | | NA |
| Top of Concrete | | NA |
| Bottom of Concrete | | NA |
| Top of Grout | Cement slurry | 0' |
| Bottom of Grout | w/ 5% bentonite | 18' |
| Top of Well Riser | 4" Sch 40 Flush | +2' |
| Bottom of Well Riser | Thread PVC | 23' |
| Top of Well Screen | 4" Sch 40 Flush | 23' |
| Bottom of Well Screen | Thread 0.01 slot PVC | 33' |
| Top of Peltonite Seal | Enviroplug | 18' |
| Bottom of Peltonite Seal | Bentonite Pellets | 20' |
| Top of Gravel Pack | 10-20 Co. | 20' |
| Bottom of Gravel Pack | Silica Sand | 33' |
| Top of Natural Cave-In | | 33' |
| Bottom of Natural Cave-In | | 34' |
| Top of Groundwater | | 29.3' |
| Total Depth of Borehole | | 34' |



Top of Protective Casing NA
Top of Riser +2'
Ground Surface 0'

Top of Seal 18'

Top of Gravel Pack 20'

Top of Screen 23'

Bottom of Screen 33'
Bottom of Borehole 34'

Comments: 25gal potable water added to BH while drilling. Bentonite hydrated w/5gal potable water GW had visible discoloration + odor. Locking well cap + padlock placed on well.

Geologist Signature CM Chance

Received by OCD: 9/16/2022 3:34:40 PM
Released to Imaging: 12/8/2022 10:49:53 AM

# 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 | | | | | | |
| | 0.0 | | | | | Weathered sandstone, gray, wet | |
| 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

Page 38 of 112

# RECORD OF SUBSURFACE EXPLORATION

Phillip Environmental Services Corp.
200 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # 1
Well # MW2
Page 1 of 2

Project Name NEPFS GROUNDWATER
Project Number 02800018 Phase 35
Project Location MILES FEDERAL 1-A CTB

Elevation
Borehole Location T26N R7W S5F
GWL Depth 27.5'
Logged By C.CULLICOTT
Drilled By D.PADILLA & A.WERITO
Date/Time Started 10/11/99 10:15 am
Date/Time Completed 10/11/99 1:15 PM
METER # 04810

Well Logged By C.CULLICOTT
Personnel On-Site E.PADILLA, D.PADILLA, A.WERITO
Contractors On-Site Ø
Client Personnel On-Site Ø

Drilling Method AUGER
Air Monitoring Method PID

| Depth (Feet) | | Sample Interval | Sample Type & Recovery (inches) | Sample Description Classification System: USCS | USCS Symbol | Depth Lithology Change (feet) | Air Monitoring Units: NDU BZ | BH | S | Drilling Conditions & Blow Counts |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | SLOW DRILLING 0-15' | | | | | | |
| 5 | (1) | 5-6½ | | (1)-FULL RECOVERY TAN LOOSE SAND, SILTY, POORLY SORTED, WET MORE CONSOLIDATED PIECES, CLEAN, DRY | | | | | | (1) 43 BLOWS SS 0.0 PPM |
| 10 | (2) | 10-11½ | | (2) 12" RECOVERY MODERATELY CONSOLIDATED SILTY, GRAVELLY SAND, ORANGE TO GREY, DRY, CLEAN | | | | | | (2) 40+ BLOWS SS 0.0 PPM |
| 15 | (3) | 15-16½ | | (3) 12" RECOVERY LOOSE TAN GRAVELLY SILTY SAND, DRY, CLEAN | | | | | | (3) 23 BLOWS SS 0.0 PPM |
| 20 | (4) | 20-21½ | | (4) 12" RECOVERY UPPER 8" LOOSE GREY-YELLOW TAN TO ORANGE GRAVELLY SAND. LOWER 4" - SILTY GRAVELLY SAND, MORE COHERENT, ALL DRY, CLEAN | | | | | | (4) 33 BLOWS SS 0.0 PPM |
| 25 | (5) | 25-26½ | | | | | | | | (5) 50+ BLOWS SS 0.0 PPM |
| 30 | (6) | 30-31½ | | (5) SPLIT SPOON REFUSAL AFTER 55 BLOWS. 12" RECOVERY LOOSE GRAVELLY SAND. UPPER 4" ORANGE, REST TAN DAMP, CLEAN (6) OVER | | | | | | (6) 50+ BLOWS SS 0.0 PPM |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |

Comments: SUNNY, WARM
MW1 DTP 30.54' DTW 30.76' FROM TOC
GWN 28'

Geologist Signature Cathy Cullicott

5/6/99\Drillog.xls

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Released to Imaging: 12/8/2022 10:49:53 AM

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# ONITORING WELL INSTALLATION RECORD

ip Environmental Services Corp.
) Monroe Road
[redacted] Mexico 87401
) 326-[redacted] FAX (505) 326-2388

Borehole # 1
Well # MW2
Page 2 of 2

Project Name EPFS GROUNDWATER
Project Number 98CCC018 Phase 35
Project Location MILES FEDERAL

On-Site Geologist C. CULLICOTT
Personnel On-Site K. PADILLA, D. PADILLA,
Contractors On-Site Ø A. WERITO
Client Personnel On-Site Ø

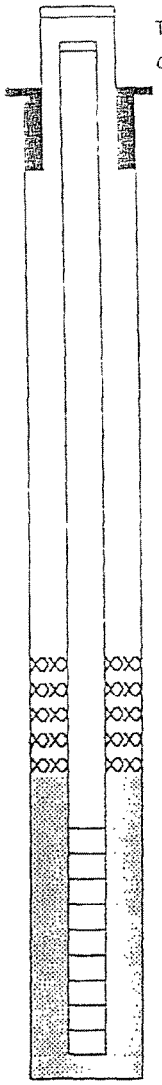
vation
ll Location T26N R7W S5F
L Depth 27.5'
talled By D. PADILLA & A. WERITO

te/Time Started 10/11/99 10:15am
te/Time Completed 10/11/99 1:15pm

Meter 94810

Depths in Reference to Ground Surface

| Item | Material | Depth |
|---|---|---|
| Top of Protective Casing | | |
| Bottom of Protective Casing | | |
| Top of Permanent Borehole Casing | | |
| Bottom of Permanent Borehole Casing | | |
| Top of Concrete | | |
| Bottom of Concrete | | |
| Top of Grout | | |
| Bottom of Grout | | |
| Top of Well Riser | 2" | GS |
| Bottom of Well Riser | 2" | 25' |
| Top of Well Screen | 2" | 25' |
| Bottom of Well Screen | 2" | 35' |
| Top of Peltonite Seal | BENT. | 21' |
| Bottom of Peltonite Seal | CHIPS | 23' |
| Top of Gravel Pack | CO. | 23' |
| Bottom of Gravel Pack | SAND | 35' |
| Top of Natural Cave-In | | |
| Bottom of Natural Cave-In | | |
| Top of Groundwater | 27.5' | |
| Total Depth of Borehole | | 35' |




Top of Protective Casing
Top of Riser
Ground Surface
Top of Seal 21'
Top of Gravel Pack 23'
Top of Screen 25'
Bottom of Screen 35'
Bottom of Borehole 35'

Comments: ONLY 10' OF SCREEN DTW 27.5 1:45

WELL DEVELOPED BY K. PADILLA WITH 5 gallons REMOVED. WATER WAS CLEAR TO SLIGHTLY TURBID. WELL IS LOW PRODUCER DTW after Bailing 27.6

Geologist Signature Cathy Cullicott

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# RECORD OF SUBSURFACE EXPLORATION

Phillip Environmental Services Corp.
600 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # 2
Well # MW3
Page 1 of 2

Project Name EPFS GROUNDWATER
Project Number 62X00018 Phase 35
Project Location MILES FEDERAL #1A

Elevation
Borehole Location T26N R7W S5F
GWL Depth 27.94'
Logged By C. CULLICOTT
Drilled By D. PADILLA & A. WARREN
Date/Time Started 10/11/99 1:15pm
Date/Time Completed 10/11/99 3:15pm
METER 94810

Well Logged By C. CULLICOTT
Personnel On-Site F. PADILLA, D. PADILLA, A. WARREN
Contractors On-Site Ø
Client Personnel On-Site Ø

Drilling Method AUGER
Air Monitoring Method PID

| Depth (Feet) | | Sample Interval | Sample Type & Recovery (inches) | Sample Description Classification System: USCS | USCS Symbol | Depth Lithology Change (feet) | Air Monitoring Units: NOU BZ | BH | S | Drilling Conditions & Blow Counts |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | |
| 5 | (1) | 5-6½ | | (1) 4" RECOVERY LOOSE BROWN SILTY SAND, DRY, CLEAN | | | | | | (1) 23 BLOWS SS 0.0 ppm |
| 10 | (2) | 10-11½ | | (2) 10" RECOVERY LOOSE, DRY, YELLOW GRAVELLY SILTY SANDY/ PIECES OF SANDSTONE, YELLOW FOR 6", THEN REST IS TAN. | | | | | | (2) 35 BLOWS SS 0.0 ppm |
| 15 | (3) | 15-16½ | | (3) 12" RECOVERY LOOSE DRY GRAVELLY SILTY SAND (SAND IS MOSTLY COARSE), UPPER 6" IS YELLOWISH WHITE POWDERY MATRIX + CHUNKS OF YELLOW SANDSTONE. LOWER 6" IS GRAYEISH TAN | | | | | | (3) 52 BLOWS SS 0.0 ppm |
| 20 | (4) | 20-21½ | | | | | | | | (4) 50+ BLOWS SS 0.0 ppm |
| 25 | (5) | 25-26½ | | | | | | | | (5) 50+ BLOWS SS 0.0 ppm |
| 30 | (6) | 30-31½ | | (4) 10" RECOVERY MODERATELY CONSOLIDATED FINE SILTY SAND, BROWN CLEAN, SLIGHTLY DAMP (5) SPLIT SPOON REFUSAL AFTER 425 BLOWS 6" RECOVERY yellowish brown damp, loose, POORLY SORTED SAND/SANDSTONE PIECES | CLEAN | | | | | (6) 50+ BLOWS SS 0.0 ppm |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |

Comments: SUNNY, HOT

Geologist Signature Cathy Cullicott

5/6/99\Drillog.xls

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# MONITORING WELL INSTALLATION RECORD

Phillip Environmental Services Corp.
[illegible] Road
[illegible] New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # 2
Well # MW3
Page 2 of 2

Project Name EPFS GROUNDWATER
Project Number 62800018 Phase 35
Project Location MILES FEDERAL #1A

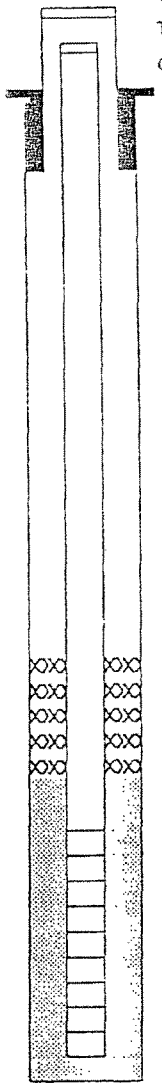
On-Site Geologist C. CULLICOTT
Personnel On-Site E. PADILLA, O. PADILLA,
Contractors On-Site Ø A. WERITO
Client Personnel On-Site Ø

Elevation
Well Location T26N R7W S5 F
SWL Depth 27.94'
Installed By D. PADILLA &
A. WERITO
Date/Time Started 10/11/99 1:15pm
Date/Time Completed 10/11/99 3:15pm

Meter 94810

Depths in Reference to Ground Surface

| Item | Material | Depth |
|---|---|---|
| Top of Protective Casing | | |
| Bottom of Protective Casing | | |
| Top of Permanent Borehole Casing | | |
| Bottom of Permanent Borehole Casing | | |
| Top of Concrete | | |
| [illegible]m of Concrete | | |
| Top of Grout | | |
| Bottom of Grout | | |
| Top of Well Riser | 2" | GS |
| Bottom of Well Riser | 2" | 25' |
| Top of Well Screen | 2" | 25' |
| Bottom of Well Screen | 2" | 35' |
| Top of Peltonite Seal | BENT. | 21' |
| Bottom of Peltonite Seal | CHIPS | 23' |
| Top of Gravel Pack | CO | 23' |
| Bottom of Gravel Pack | SAND | 35' |
| Top of Natural Cave-In | | |
| Bottom of Natural Cave-In | | |
| Top of Groundwater | | 27.94' |
| Total Depth of Borehole | | 35' |




Comments: Well developed w/ 5 gallons removed 3:20-3:35
well is good producer - DTW AFTER BAILING 28.38'
Water was turbid throughout bailing
yellowish brown sediment

Geologist Signature Cathy Cullicott

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MWH

# Drilling Log

Soil Boring **DP-1**

Page: 1 of 2

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

Location *Rio Arriba County, New Mexico* Project Number *10509134*

Surface Elev. *6046.70 ft* North *NA* East *NA*

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

Hole Depth *28.0 ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *2.875 in* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Vista Geoscience* Drilling Method *Direct Push/Dual-tube* Sand Pack *NA*

Driller *Chase Cain* Driller Reg. # *WD-1705* Log By *Brad Barton*

Start Date *5/22/2016* Completion Date *5/22/2016* Checked By *S. Varsa*

*COMMENTS*
*Adjacent to MW-1. Water level at MW-1 = 30.95 ft. below TOC, ~28.5 ft. below GS. Surface is dirt with minor vegetation. NM = Not measured.*

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

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS | Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS. |
|---|---|---|---|---|---|---|
| 0 | | | | | | |
| 0 | 0.0 | | | | | Sand, silty, brown, dry, loose, medium to fine sand, no hydrocarbon odor. (0-8' cleared with a hydro-vac). |
| 2 | 0.0 | | | | | |
| | 0.0 | | | | | |
| 4 | 0.0 | 100% | | | SM | |
| | 0.0 | | | | | |
| 6 | 0.0 | | | | | |
| | 0.0 | | | | | |
| 8 | 0.0 | | | | | |
| | 0.0 | 100% | | | | Well-graded sand, dry, loose, all sand sizes, subangular, no cementation to minor noted at 16', no hydrocarbon odor, some iron oxidation present, soil compacted in the core liner in the 10-15' and 15-20' intervals; minor gravel. |
| 10 | 0.0 | | | | | |
| | 0.0 | | | | SW | |
| 12 | 0.0 | 100% | | | | |
| | 0.0 | | | | | |
| 14 | | | | | | |

*Continued Next Page*

Drilling Log 2016 MILES FEDERAL LOGS.GPJ MWH IA.GDT 12/19/16

MWH

# Drilling Log

Soil Boring **DP-1**

Page: 2 of 2

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

Location *Rio Arriba County, New Mexico* Project Number *10509134*

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS | Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS. |
|---|---|---|---|---|---|---|
| | | | | | | *Continued* |
| 14 | 0.0 | 100% | | | SW | |
| | 0.0 | | | | | |
| 16 | 0.0 | | | | | |
| | 0.0 | DP1 17-18' | | | | |
| | | 100% | | | | |
| 18 | 0.0 | | | | | |
| | 0.0 | DP1 19-20' | | | | |
| 20 | 0.0 | | | | | Possible sandstone- probe refusal at 20'. Begin augering. Driller reports intermittent hard and soft in the weathered sandstone. Auger refusal at 28'. Auger cuttings have a slight hydrocarbon odor from 20-28', cuttings are very moist. |
| | NM | | | | | |
| 22 | 20.5 | | | | | |
| | NM | | | | | |
| 24 | NM | | | | | |
| | NM | | | | | |
| 26 | NM | | | | | |
| | 192.5 | DP1 27-28' | | | | |
| 28 | NM | | | | | Total depth = 28'. |
| 30 | | | | | | |
| 32 | | | | | | |

Drilling Log 2016 MILES FEDERAL LOGS.GPJ MWH IA.GDT 12/19/16

# Drilling Log

MWH

Soil Boring **DP-2**

Page: 1 of 2

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

Location *Rio Arriba County, New Mexico* Project Number *10509134*

Surface Elev. *6046.70 ft* North *NA* East *NA*

Top of Casing *NA* Water Level Initial ▽ *26.0ft* 05/22/16 14:30 Static ▼ *27.0ft* 05/22/16 15:40

Hole Depth *34.0 ft* Screen: Diameter *NA* Length *NA* Type/Size *NA*

Hole Diameter *2.875 in* Casing: Diameter *NA* Length *NA* Type *NA*

Drill Co. *Vista Geoscience* Drilling Method *Direct Push/Dual-tube* Sand Pack *NA*

Driller *Chase Cain* Driller Reg. # *WD-1705* Log By *Brad Barton*

Start Date *5/22/2016* Completion Date *5/22/2016* Checked By *S. Varsa*

*COMMENTS*
*Water level at MW-1 = 30.95 ft. below TOC, ~28.5 ft. below GS. Surface is dirt with minor vegetation (sagebrush). NM = Not measured.*

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

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS | Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS. |
|---|---|---|---|---|---|---|
| 0 | | | | | | |
| 0 | 0.0 | | | | | Sand, silty, brown, dry, loose. (0-8' cleared with a hydro-vac). |
| 2 | 0.0 | | | | | |
| | 0.0 | | | | | |
| 4 | 0.0 | 100% | | | SM | |
| | 0.0 | | | | | |
| 6 | 0.0 | | | | | |
| | 0.0 | | | | | |
| 8 | 0.0 | | | | | |
| | 0.0 | 100% | | | | Well-graded sand, dry, loose but becoming consolidated at 16.5' with probe refusal at 17.5', very coarse to very fine sand but mostly fine, no hydrocarbon odor, subangular grains, grain size increases with depth, trace gravel, possible CaCO3 at 17.5'. |
| 10 | 0.0 | | | | | |
| | 0.0 | | | | | |
| 12 | 0.0 | | | | | |
| | 0.0 | 100% | | | SW | |
| 14 | 0.0 | | | | | |
| | 0.0 | | | | | |
| 16 | 0.0 | DP2 16.5-17.5' | | | | |
| | 0.0 | 100% | | | | |
| | 0.0 | | | | | |
| 18 | NM | | | | | Possible cemented sands/sandstone. Begin augering at 17.5'. Driller reports intermittent hard and soft in the weathered sandstone. Augering continued to 34'. Water at 26'. |

*Continued Next Page*

Drilling Log 2016 MILES FEDERAL LOGS.GPJ MWH IA.GDT 12/19/16

MWH

# Drilling Log

Soil Boring **DP-2**

Page: 2 of 2

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

Location *Rio Arriba County, New Mexico* Project Number *10509134*

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS | Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS. |
|---|---|---|---|---|---|---|
| | | | | | | *Continued* |
| | NM | | | | | |
| 20 | NM | | | | | |
| | NM | | | | | |
| 22 | NM | | | | | |
| | NM | | | | | |
| 24 | NM | | | | | |
| | NM | | | | | |
| 26 | NM | | | | | |
| | NM | | | | | |
| 28 | NM | | | | | |
| | NM | | | | | |
| 30 | 0.0 | | | | | |
| | NM | | | | | |
| 32 | NM | | | | | |
| | NM | | | | | |
| 34 | NM | | | | | |
| | | | | | | Total depth = 34'. |
| 36 | | | | | | |
| 38 | | | | | | |
| 40 | | | | | | |
| 42 | | | | | | |
| 44 | | | | | | |

Drilling Log 2016 MILES FEDERAL LOGS.GPJ MWH IA.GDT 12/19/16

# ATTACHMENT C

NO. 824149

30 Years of Environmental Health and Safety Excellence

# BASIN DISPOSAL

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

NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 3/22/22 DEL. TKT#.

GENERATOR: El Paso CGP Com. LLC BILL TO: El Paso CGP Com LLC

HAULING CO. Oil Conservation Division DRIVER: Sean Clary
(Print Full Name)

ORDERED BY: Joe W CODES:

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

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

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

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

☒ Approved ☐ Denied ATTENDANT SIGNATURE _____

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Page 48 of 112

envirotech

# Bill of Lading

MANIFEST # 73058
GENERATOR El Paso
POINT OF ORIGIN Rio Vista Comp Station
TRANSPORTER Envirotech
DATE 05-24-22 JOB # See Below

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

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

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

LANDFARM EMPLOYEE Cory Robinson BLM

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

NOTES

SCANNED

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

Generator Onsite Contact _____ Phone _____

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

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# envirotech

# Bill of Lading

MANIFEST # 74312
GENERATOR ElPaso
POINT OF ORIGIN See SW 01140
TRANSPORTER Envirotech
DATE 08.03.22 JOB # 14073-0060

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

| LOAD NO. | COMPLETE DESCRIPTION OF SHIPMENT | | | | | | TRANSPORTING COMPANY | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | DESTINATION | MATERIAL | GRID | YDS | BBLS | DRUMS | TKT# | TRK# | TIME | DRIVER SIGNATURE |
| 1 | BF | Cont Liquid | | | 1 | - | 01140 | 964 | 1125 | |
| | | | | | 1 | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | Bill 5 yds min | | SCANNED | |

| RESULTS | | | LANDFARM EMPLOYEE | NOTES |
|---|---|---|---|---|
| -294 | CHLORIDE TEST | 1 | DR | |
| | CHLORIDE TEST | | ☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out | |
| | CHLORIDE TEST | | **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.** | |
| Pass | PAINT FILTER TEST | 1 | | |

Generator Onsite Contact _____ Phone _____

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

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01140

envirotech BOL# 74312

# CHLORIDE TESTING / PAINT FILTER TESTING

DATE 08.03.22 TIME 1125

CUSTOMER ELPaso

SITE Sec 5 W. 01140

DRIVER Colton John

SAMPLE Soil Straight _____ With Dirt X

**CHLORIDE TEST** -294 mg/Kg

ACCEPTED YES X NO _____

**PAINT FILTER TEST** Time started 1125 Time completed 1137

PASS YES X NO _____

SAMPLER/ANALYST [signature]

Attach test strip here


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

envirotech

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

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

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

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

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

GENERATOR

| Type and Proper Name of Special Waste | Container(s) No. | Container(s) Type | Total Quantity | Unit Wt/Vol | |
|---|---|---|---|---|---|
| Petroleum Contaminated liquid | 1 | B | ~~100~~ 35 | gal | |
| | | | | | |
| | | | | | |
| | | | | | |

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

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

| Printed/Typed Name: | Signature: | Date: |
|---|---|---|
| Greg Crabtree AS Agent | | 8/3/22 |

TRANSPORTER

| Transporter 1 Acknowledgement of Receipt of Special Waste | | |
|---|---|---|
| Printed/Typed Name: Colton Thun | Signature: | Date: 8/3/22 |
| **Transporter 2 Acknowledgement of Receipt of Special Waste** | | |
| Printed/Typed Name: | Signature: | Date: |

FACILITY

Discrepancy Indication Space:

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

| Printed/Typed Name: | Signature: | Date: |
|---|---|---|
| Cory Robinson | | 08.03.22 |



Released to Imaging: 12/8/2022 10:49:53 AM

# ATTACHMENT D

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-217374-1
Client Project/Site: Miles Federal #1A

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

Attn: Steve Varsa

Cheyenne Whitmire

*Authorized for release by:*
*5/13/2022 5:33:30 PM*

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

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

Laboratory Job ID: 400-217374-1

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# Case Narrative

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

Job ID: 400-217374-1

## Job ID: 400-217374-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-217374-1**

**Receipt**
The samples were received on 3/23/2022 9:14 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8º C.

**GC/MS VOA**
Method 8260C: The continuing calibration verification (CCV) associated with batch 400-571939 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

**GC/MS Semi VOA**
Method 8270C LL: The laboratory control sample duplicate (LCSD) for preparation batch 400-571564 and analytical batch 400-571864 recovered outside control limits for the following analytes: Benzo[a]pyrene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8270C LL: Surrogate recovery for the following samples were outside the upper control limit: DUP-01 (400-217374-2) and MW-1R (400-217374-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

**Organic Prep**
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-571564.

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

# Detection Summary

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

Job ID: 400-217374-1

## Client Sample ID: TB-01 Lab Sample ID: 400-217374-1

No Detections.

## Client Sample ID: DUP-01 Lab Sample ID: 400-217374-2

No Detections.

## Client Sample ID: MW-1R Lab Sample ID: 400-217374-3

No Detections.

## Client Sample ID: MW-2 Lab Sample ID: 400-217374-4

No Detections.

## Client Sample ID: MW-3 Lab Sample ID: 400-217374-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

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

Job ID: 400-217374-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | TAL PEN |
| 8270C LL | Semivolatile Organic Compounds by GCMS - Low Levels | SW846 | TAL PEN |
| 3520C | Liquid-Liquid Extraction (Continuous) | SW846 | TAL PEN |
| 5030C | Purge and Trap | SW846 | TAL PEN |

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

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

Job ID: 400-217374-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-217374-1 | TB-01 | Water | 03/21/22 07:00 | 03/23/22 09:14 |
| 400-217374-2 | DUP-01 | Water | 03/21/22 16:02 | 03/23/22 09:14 |
| 400-217374-3 | MW-1R | Water | 03/21/22 15:02 | 03/23/22 09:14 |
| 400-217374-4 | MW-2 | Water | 03/21/22 15:30 | 03/23/22 09:14 |
| 400-217374-5 | MW-3 | Water | 03/21/22 15:41 | 03/23/22 09:14 |

# Client Sample Results

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

Job ID: 400-217374-1

## Client Sample ID: TB-01

**Date Collected: 03/21/22 07:00**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-1

**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 | | | 03/30/22 19:25 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 03/30/22 19:25 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 03/30/22 19:25 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 03/30/22 19:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 119* | | *03/30/22 19:25* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *03/30/22 19:25* | *1* |
| *Toluene-d8 (Surr)* | *84* | | *64 - 132* | | *03/30/22 19:25* | *1* |

# Client Sample Results

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

Job ID: 400-217374-1

## Client Sample ID: DUP-01
**Date Collected: 03/21/22 16:02**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-2
**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 | | | 03/30/22 23:53 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 03/30/22 23:53 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 03/30/22 23:53 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 03/30/22 23:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *72 - 119* | | *03/30/22 23:53* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *03/30/22 23:53* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *64 - 132* | | *03/30/22 23:53* | *1* |

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | <0.20 | *+ | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 23:52 | 1 |
| 1-Methylnaphthalene | <0.20 | | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 23:52 | 1 |
| 2-Methylnaphthalene | <0.20 | | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 23:52 | 1 |
| Naphthalene | <0.20 | | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 23:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *131* | *S1+* | *15 - 122* | *03/28/22 09:05* | *03/29/22 23:52* | *1* |
| *Nitrobenzene-d5* | *103* | | *19 - 130* | *03/28/22 09:05* | *03/29/22 23:52* | *1* |
| *Terphenyl-d14* | *174* | *S1+* | *33 - 138* | *03/28/22 09:05* | *03/29/22 23:52* | *1* |

# Client Sample Results

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

Job ID: 400-217374-1

## Client Sample ID: MW-1R

**Date Collected: 03/21/22 15:02**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-3

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 04/03/22 18:31 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 04/03/22 18:31 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 04/03/22 18:31 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 04/03/22 18:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *72 - 119* | | *04/03/22 18:31* | *1* |
| *Dibromofluoromethane* | *99* | | *75 - 126* | | *04/03/22 18:31* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* | | *04/03/22 18:31* | *1* |

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | <0.21 | *+ | 0.21 | | ug/L | | 03/28/22 09:05 | 03/30/22 00:09 | 1 |
| 1-Methylnaphthalene | <0.21 | | 0.21 | | ug/L | | 03/28/22 09:05 | 03/30/22 00:09 | 1 |
| 2-Methylnaphthalene | <0.21 | | 0.21 | | ug/L | | 03/28/22 09:05 | 03/30/22 00:09 | 1 |
| Naphthalene | <0.21 | | 0.21 | | ug/L | | 03/28/22 09:05 | 03/30/22 00:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *116* | | *15 - 122* | *03/28/22 09:05* | *03/30/22 00:09* | *1* |
| *Nitrobenzene-d5* | *98* | | *19 - 130* | *03/28/22 09:05* | *03/30/22 00:09* | *1* |
| *Terphenyl-d14* | *154* | *S1+* | *33 - 138* | *03/28/22 09:05* | *03/30/22 00:09* | *1* |

# Client Sample Results

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

Job ID: 400-217374-1

## Client Sample ID: MW-2

**Date Collected: 03/21/22 15:30**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-4

**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 | | | 03/31/22 00:42 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 03/31/22 00:42 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 03/31/22 00:42 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 03/31/22 00:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *72 - 119* | | *03/31/22 00:42* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *03/31/22 00:42* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *64 - 132* | | *03/31/22 00:42* | *1* |

# Client Sample Results

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

Job ID: 400-217374-1

## Client Sample ID: MW-3
**Date Collected: 03/21/22 15:41**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-5
**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 | | | 03/31/22 01:06 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 03/31/22 01:06 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 03/31/22 01:06 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 03/31/22 01:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *72 - 119* | | *03/31/22 01:06* | *1* |
| *Dibromofluoromethane* | *101* | | *75 - 126* | | *03/31/22 01:06* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *64 - 132* | | *03/31/22 01:06* | *1* |

# Definitions/Glossary

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

Job ID: 400-217374-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| S1+ | Surrogate recovery exceeds control limits, high biased. |

## Glossary

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

# Lab Chronicle

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

Job ID: 400-217374-1

## Client Sample ID: TB-01
**Date Collected: 03/21/22 07:00**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-1
**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 | 571939 | 03/30/22 19:25 | BPO | TAL PEN |
| | Instrument ID: Brutus | | | | | | | | | |

## Client Sample ID: DUP-01
**Date Collected: 03/21/22 16:02**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-2
**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 | 571939 | 03/30/22 23:53 | BPO | TAL PEN |
| | Instrument ID: Brutus | | | | | | | | | |
| Total/NA | Prep | 3520C | | | 244.6 mL | 1 mL | 571564 | 03/28/22 09:05 | BKL | TAL PEN |
| Total/NA | Analysis | 8270C LL | | 1 | | | 571864 | 03/29/22 23:52 | PP1 | TAL PEN |
| | Instrument ID: LUCY | | | | | | | | | |

## Client Sample ID: MW-1R
**Date Collected: 03/21/22 15:02**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-3
**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 | 572421 | 04/03/22 18:31 | BEP | TAL PEN |
| | Instrument ID: CH_WASP | | | | | | | | | |
| Total/NA | Prep | 3520C | | | 240.4 mL | 1 mL | 571564 | 03/28/22 09:05 | BKL | TAL PEN |
| Total/NA | Analysis | 8270C LL | | 1 | | | 571864 | 03/30/22 00:09 | PP1 | TAL PEN |
| | Instrument ID: LUCY | | | | | | | | | |

## Client Sample ID: MW-2
**Date Collected: 03/21/22 15:30**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-4
**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 | 571939 | 03/31/22 00:42 | BPO | TAL PEN |
| | Instrument ID: Brutus | | | | | | | | | |

## Client Sample ID: MW-3
**Date Collected: 03/21/22 15:41**
**Date Received: 03/23/22 09:14**

## Lab Sample ID: 400-217374-5
**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 | 571939 | 03/31/22 01:06 | BPO | TAL PEN |
| | Instrument ID: Brutus | | | | | | | | | |

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

# QC Association Summary

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

Job ID: 400-217374-1

## GC/MS VOA

### Analysis Batch: 571939

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-217374-1 | TB-01 | Total/NA | Water | 8260C | |
| 400-217374-2 | DUP-01 | Total/NA | Water | 8260C | |
| 400-217374-4 | MW-2 | Total/NA | Water | 8260C | |
| 400-217374-5 | MW-3 | Total/NA | Water | 8260C | |
| MB 400-571939/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-571939/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-217516-A-1 MS | Matrix Spike | Total/NA | Water | 8260C | |
| 400-217516-A-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260C | |

### Analysis Batch: 572421

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-217374-3 | MW-1R | Total/NA | Water | 8260C | |
| MB 400-572421/5 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-572421/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-217696-A-2 MS | Matrix Spike | Total/NA | Water | 8260C | |
| 400-217696-A-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260C | |

## GC/MS Semi VOA

### Prep Batch: 571564

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-217374-2 | DUP-01 | Total/NA | Water | 3520C | |
| 400-217374-3 | MW-1R | Total/NA | Water | 3520C | |
| MB 400-571564/1-A | Method Blank | Total/NA | Water | 3520C | |
| LCS 400-571564/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 400-571564/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |

### Analysis Batch: 571864

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-217374-2 | DUP-01 | Total/NA | Water | 8270C LL | 571564 |
| 400-217374-3 | MW-1R | Total/NA | Water | 8270C LL | 571564 |
| MB 400-571564/1-A | Method Blank | Total/NA | Water | 8270C LL | 571564 |
| LCS 400-571564/2-A | Lab Control Sample | Total/NA | Water | 8270C LL | 571564 |
| LCSD 400-571564/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C LL | 571564 |

# QC Sample Results

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

Job ID: 400-217374-1

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

### Lab Sample ID: MB 400-571939/4
**Matrix: Water**
**Analysis Batch: 571939**

**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 | | | 03/30/22 18:12 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 03/30/22 18:12 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 03/30/22 18:12 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 03/30/22 18:12 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 119* | | *03/30/22 18:12* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *03/30/22 18:12* | *1* |
| *Toluene-d8 (Surr)* | *81* | | *64 - 132* | | *03/30/22 18:12* | *1* |

### Lab Sample ID: LCS 400-571939/1002
**Matrix: Water**
**Analysis Batch: 571939**

**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 | 63.4 | | ug/L | | 127 | 70 - 130 | | |
| Toluene | | | 50.0 | 53.3 | | ug/L | | 107 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 47.7 | | ug/L | | 95 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 95.5 | | ug/L | | 96 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *107* | | *72 - 119* |
| *Dibromofluoromethane* | *96* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *84* | | *64 - 132* |

### Lab Sample ID: 400-217516-A-1 MS
**Matrix: Water**
**Analysis Batch: 571939**

**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 | 48.1 | | ug/L | | 96 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 44.2 | | ug/L | | 88 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 41.2 | | ug/L | | 81 | 58 - 131 | | |
| Xylenes, Total | <10 | | 100 | 81.3 | | ug/L | | 81 | 59 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *104* | | *72 - 119* |
| *Dibromofluoromethane* | *95* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *88* | | *64 - 132* |

### Lab Sample ID: 400-217516-A-1 MSD
**Matrix: Water**
**Analysis Batch: 571939**

**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 | 48.0 | | ug/L | | 96 | 56 - 142 | 0 | 30 |
| Toluene | <1.0 | | 50.0 | 43.8 | | ug/L | | 88 | 65 - 130 | 1 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 39.3 | | ug/L | | 78 | 58 - 131 | 5 | 30 |

# QC Sample Results

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

Job ID: 400-217374-1

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

**Lab Sample ID: 400-217516-A-1 MSD**
**Matrix: Water**
**Analysis Batch: 571939**

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | <10 | | 100 | 77.3 | | ug/L | | 77 | 59 - 130 | 5 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *108* | | *72 - 119* |
| *Dibromofluoromethane* | *95* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *90* | | *64 - 132* |

**Lab Sample ID: MB 400-572421/5**
**Matrix: Water**
**Analysis Batch: 572421**

**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 | | | 04/03/22 16:20 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 04/03/22 16:20 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 04/03/22 16:20 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 04/03/22 16:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *72 - 119* | | *04/03/22 16:20* | *1* |
| *Dibromofluoromethane* | *98* | | *75 - 126* | | *04/03/22 16:20* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* | | *04/03/22 16:20* | *1* |

**Lab Sample ID: LCS 400-572421/1002**
**Matrix: Water**
**Analysis Batch: 572421**

**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 | 47.7 | | ug/L | | 95 | 70 - 130 | | |
| Toluene | | | 50.0 | 46.0 | | ug/L | | 92 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 48.4 | | ug/L | | 97 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 94.7 | | ug/L | | 95 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *72 - 119* |
| *Dibromofluoromethane* | *97* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* |

**Lab Sample ID: 400-217696-A-2 MS**
**Matrix: Water**
**Analysis Batch: 572421**

**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 | 41.6 | | ug/L | | 83 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 38.4 | | ug/L | | 77 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 37.4 | | ug/L | | 75 | 58 - 131 | | |
| Xylenes, Total | <10 | | 100 | 73.6 | | ug/L | | 74 | 59 - 130 | | |

# QC Sample Results

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

Job ID: 400-217374-1

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

**Lab Sample ID: 400-217696-A-2 MS**
**Matrix: Water**
**Analysis Batch: 572421**

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

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 102 | | 72 - 119 |
| Dibromofluoromethane | 97 | | 75 - 126 |
| Toluene-d8 (Surr) | 98 | | 64 - 132 |

**Lab Sample ID: 400-217696-A-2 MSD**
**Matrix: Water**
**Analysis Batch: 572421**

**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 | 46.1 | | ug/L | | 92 | 56 - 142 | 10 | 30 |
| Toluene | <1.0 | | 50.0 | 43.0 | | ug/L | | 86 | 65 - 130 | 11 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 42.7 | | ug/L | | 85 | 58 - 131 | 13 | 30 |
| Xylenes, Total | <10 | | 100 | 83.7 | | ug/L | | 84 | 59 - 130 | 13 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 104 | | 72 - 119 |
| Dibromofluoromethane | 98 | | 75 - 126 |
| Toluene-d8 (Surr) | 98 | | 64 - 132 |

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

**Lab Sample ID: MB 400-571564/1-A**
**Matrix: Water**
**Analysis Batch: 571864**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 571564**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | <0.20 | | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 21:17 | 1 |
| 1-Methylnaphthalene | <0.20 | | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 21:17 | 1 |
| 2-Methylnaphthalene | <0.20 | | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 21:17 | 1 |
| Naphthalene | <0.20 | | 0.20 | | ug/L | | 03/28/22 09:05 | 03/29/22 21:17 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 107 | | 15 - 122 | 03/28/22 09:05 | 03/29/22 21:17 | 1 |
| Nitrobenzene-d5 | 88 | | 19 - 130 | 03/28/22 09:05 | 03/29/22 21:17 | 1 |
| Terphenyl-d14 | 133 | | 33 - 138 | 03/28/22 09:05 | 03/29/22 21:17 | 1 |

**Lab Sample ID: LCS 400-571564/2-A**
**Matrix: Water**
**Analysis Batch: 571864**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 571564**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | | | 120 | 138 | | ug/L | | 115 | 52 - 120 | | |
| 1-Methylnaphthalene | | | 120 | 114 | | ug/L | | 95 | 41 - 120 | | |
| 2-Methylnaphthalene | | | 120 | 115 | | ug/L | | 96 | 32 - 124 | | |
| Naphthalene | | | 120 | 69.9 | | ug/L | | 58 | 39 - 125 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 2-Fluorobiphenyl | 107 | | 15 - 122 |

# QC Sample Results

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

Job ID: 400-217374-1

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

**Lab Sample ID: LCS 400-571564/2-A**
**Matrix: Water**
**Analysis Batch: 571864**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 571564**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| Nitrobenzene-d5 | 108 | | 19 - 130 |
| Terphenyl-d14 | 114 | | 33 - 138 |

**Lab Sample ID: LCSD 400-571564/3-A**
**Matrix: Water**
**Analysis Batch: 571864**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 571564**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | | | 120 | 147 | *+ | ug/L | | 122 | 52 - 120 | 6 | 50 |
| 1-Methylnaphthalene | | | 120 | 126 | | ug/L | | 105 | 41 - 120 | 10 | 55 |
| 2-Methylnaphthalene | | | 120 | 124 | | ug/L | | 104 | 32 - 124 | 7 | 57 |
| Naphthalene | | | 120 | 79.2 | | ug/L | | 66 | 39 - 125 | 12 | 56 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 2-Fluorobiphenyl | 114 | | 15 - 122 |
| Nitrobenzene-d5 | 107 | | 19 - 130 |
| Terphenyl-d14 | 112 | | 33 - 138 |

Released to Imaging: 12/8/2022 10:49:53 AM
Received by OCD: 9/16/2022 3:34:40 PM

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

# Chain of Custody Record

400-217374 COC

eurofins | Environment Testing America

| Client Information | Sampler: SRC/CQE | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-109420-38601.1 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 913-980-0281 | E-Mail: Cheyenne.Whitmire@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): STD | | | |
| State, Zip: IA, 50322-7904 | Compliance Project: Δ Yes Δ No | | | |
| Phone: — | PO #: WD1039996 | | | |
| Email: steve.varsa@stantec.com | WO #: | | | |
| Project Name: Miles Fed 1A | Project #: 40005479 | | | |
| Site: Miles Fed 1A | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

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

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Y or N) | 8260C - BTEX 8260 | 8270C_LL - LVI Project Specific PAHs | 8260C - BTEX 8260 (unpreserved) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | | | |
| TB-01 | 3/21/2022 | 0700 | G | Water | — | | 2 | | | | Trip Blank |
| DUP-01 | 3/21/2022 | 1602 | G | Water | — | | 3 | 1 | | | Duplicate |
| MW-1R | 3/21/2022 | 1502 | G | Water | — | | 3 | 1 | | | |
| MW-2 | 3/21/2022 | 1530 | G | Water | — | | 3 | | | | |
| MW-3 | 3/21/2022 | 1541 | G | Water | — | | 3 | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |

**Possible Hazard Identification**

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| Relinquished by: Sam R Clay | Date/Time: 3/22/2022 1000 | Company: STN | Received by: | Date/Time: 3/23/22 914 | Company: FEDEX |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

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

Cooler Temperature(s) °C and Other Remarks: 0.8°C IR 9

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-217374-1
SDG Number:

**Login Number: 217374**
**List Number: 1**
**Creator: Perez, Trina M**

**List Source: Eurofins Pensacola**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 0.8°C IR-9 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-217374-1
Project/Site: Miles Federal #1A

## Laboratory: Eurofins Pensacola

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

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

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-220382-1
Client Project/Site: Miles Federal 1A

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

Attn: Steve Varsa

*Authorized for release by:*
*6/8/2022 8:14:56 AM*
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

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

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

Laboratory Job ID: 400-220382-1

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# Case Narrative

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

Job ID: 400-220382-1

## Job ID: 400-220382-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-220382-1**

**Receipt**
The samples were received on 5/24/2022 9:02 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2º C.

# Detection Summary

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

Job ID: 400-220382-1

## Client Sample ID: TRIP BLANK — Lab Sample ID: 400-220382-1

No Detections.

## Client Sample ID: MW-1R — Lab Sample ID: 400-220382-2

No Detections.

## Client Sample ID: MW-2 — Lab Sample ID: 400-220382-3

No Detections.

## Client Sample ID: MW-3 — Lab Sample ID: 400-220382-4

No Detections.

## Client Sample ID: DUP-01 — Lab Sample ID: 400-220382-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

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

Job ID: 400-220382-1

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

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

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

Job ID: 400-220382-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-220382-1 | TRIP BLANK | Water | 05/22/22 12:45 | 05/24/22 09:02 |
| 400-220382-2 | MW-1R | Water | 05/22/22 12:50 | 05/24/22 09:02 |
| 400-220382-3 | MW-2 | Water | 05/22/22 13:00 | 05/24/22 09:02 |
| 400-220382-4 | MW-3 | Water | 05/22/22 13:20 | 05/24/22 09:02 |
| 400-220382-5 | DUP-01 | Water | 05/22/22 13:50 | 05/24/22 09:02 |

# Client Sample Results

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

Job ID: 400-220382-1

## Client Sample ID: TRIP BLANK

**Date Collected: 05/22/22 12:45**
**Date Received: 05/24/22 09:02**

## Lab Sample ID: 400-220382-1

**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 | | | 05/26/22 14:13 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 14:13 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 14:13 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/26/22 14:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *80* | | *72 - 119* | | *05/26/22 14:13* | *1* |
| *Dibromofluoromethane* | *107* | | *75 - 126* | | *05/26/22 14:13* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *64 - 132* | | *05/26/22 14:13* | *1* |

# Client Sample Results

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

Job ID: 400-220382-1

## Client Sample ID: MW-1R
**Date Collected: 05/22/22 12:50**
**Date Received: 05/24/22 09:02**

## Lab Sample ID: 400-220382-2
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 14:39 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 14:39 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 14:39 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/26/22 14:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *79* | | *72 - 119* | | *05/26/22 14:39* | *1* |
| *Dibromofluoromethane* | *107* | | *75 - 126* | | *05/26/22 14:39* | *1* |
| *Toluene-d8 (Surr)* | *79* | | *64 - 132* | | *05/26/22 14:39* | *1* |

# Client Sample Results

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

Job ID: 400-220382-1

## Client Sample ID: MW-2

**Date Collected: 05/22/22 13:00**
**Date Received: 05/24/22 09:02**

## Lab Sample ID: 400-220382-3

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 20:01 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 20:01 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 20:01 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/26/22 20:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *78* | | *72 - 119* | | *05/26/22 20:01* | *1* |
| *Dibromofluoromethane* | *112* | | *75 - 126* | | *05/26/22 20:01* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *64 - 132* | | *05/26/22 20:01* | *1* |

# Client Sample Results

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

Job ID: 400-220382-1

## Client Sample ID: MW-3

**Date Collected: 05/22/22 13:20**
**Date Received: 05/24/22 09:02**

## Lab Sample ID: 400-220382-4

**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 | | | 05/26/22 20:27 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 20:27 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 20:27 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/26/22 20:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *78* | | *72 - 119* | | *05/26/22 20:27* | *1* |
| *Dibromofluoromethane* | *108* | | *75 - 126* | | *05/26/22 20:27* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *64 - 132* | | *05/26/22 20:27* | *1* |

# Client Sample Results

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

Job ID: 400-220382-1

## Client Sample ID: DUP-01
**Date Collected: 05/22/22 13:50**
**Date Received: 05/24/22 09:02**

## Lab Sample ID: 400-220382-5
**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 | | | 05/26/22 20:54 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 20:54 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 20:54 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/26/22 20:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *78* | | *72 - 119* | | *05/26/22 20:54* | *1* |
| *Dibromofluoromethane* | *115* | | *75 - 126* | | *05/26/22 20:54* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *64 - 132* | | *05/26/22 20:54* | *1* |

# Definitions/Glossary

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

Job ID: 400-220382-1

## Glossary

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

# Lab Chronicle

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

Job ID: 400-220382-1

## Client Sample ID: TRIP BLANK
**Lab Sample ID: 400-220382-1**
**Date Collected: 05/22/22 12:45**
**Matrix: Water**
**Date Received: 05/24/22 09:02**

| 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 | 579059 | 05/26/22 14:13 | SAB | TAL PEN |
| | Instrument ID: Tesla | | | | | | | | | |

## Client Sample ID: MW-1R
**Lab Sample ID: 400-220382-2**
**Date Collected: 05/22/22 12:50**
**Matrix: Water**
**Date Received: 05/24/22 09:02**

| 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 | 579059 | 05/26/22 14:39 | SAB | TAL PEN |
| | Instrument ID: Tesla | | | | | | | | | |

## Client Sample ID: MW-2
**Lab Sample ID: 400-220382-3**
**Date Collected: 05/22/22 13:00**
**Matrix: Water**
**Date Received: 05/24/22 09:02**

| 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 | 579059 | 05/26/22 20:01 | SAB | TAL PEN |
| | Instrument ID: Tesla | | | | | | | | | |

## Client Sample ID: MW-3
**Lab Sample ID: 400-220382-4**
**Date Collected: 05/22/22 13:20**
**Matrix: Water**
**Date Received: 05/24/22 09:02**

| 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 | 579059 | 05/26/22 20:27 | SAB | TAL PEN |
| | Instrument ID: Tesla | | | | | | | | | |

## Client Sample ID: DUP-01
**Lab Sample ID: 400-220382-5**
**Date Collected: 05/22/22 13:50**
**Matrix: Water**
**Date Received: 05/24/22 09:02**

| 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 | 579059 | 05/26/22 20:54 | SAB | TAL PEN |
| | Instrument ID: Tesla | | | | | | | | | |

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

# QC Association Summary

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

Job ID: 400-220382-1

## GC/MS VOA

### Analysis Batch: 579059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-220382-1 | TRIP BLANK | Total/NA | Water | 8260C | |
| 400-220382-2 | MW-1R | Total/NA | Water | 8260C | |
| 400-220382-3 | MW-2 | Total/NA | Water | 8260C | |
| 400-220382-4 | MW-3 | Total/NA | Water | 8260C | |
| 400-220382-5 | DUP-01 | Total/NA | Water | 8260C | |
| MB 400-579059/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-579059/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-220382-2 MS | MW-1R | Total/NA | Water | 8260C | |
| 400-220382-2 MSD | MW-1R | Total/NA | Water | 8260C | |

# QC Sample Results

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

Job ID: 400-220382-1

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

**Lab Sample ID: MB 400-579059/4**
**Matrix: Water**
**Analysis Batch: 579059**

**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 | | | 05/26/22 13:19 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 13:19 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/26/22 13:19 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/26/22 13:19 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *80* | | *72 - 119* | | *05/26/22 13:19* | *1* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *05/26/22 13:19* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *64 - 132* | | *05/26/22 13:19* | *1* |

**Lab Sample ID: LCS 400-579059/1002**
**Matrix: Water**
**Analysis Batch: 579059**

**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 | 55.2 | | ug/L | | 110 | 70 - 130 | | |
| Toluene | | | 50.0 | 52.5 | | ug/L | | 105 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 56.1 | | ug/L | | 112 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 113 | | ug/L | | 113 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *80* | | *72 - 119* |
| *Dibromofluoromethane* | *92* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *92* | | *64 - 132* |

**Lab Sample ID: 400-220382-2 MS**
**Matrix: Water**
**Analysis Batch: 579059**

**Client Sample ID: MW-1R**
**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 | 54.8 | | ug/L | | 110 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 49.3 | | ug/L | | 99 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 53.1 | | ug/L | | 106 | 58 - 131 | | |
| Xylenes, Total | <10 | | 100 | 106 | | ug/L | | 106 | 59 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *79* | | *72 - 119* |
| *Dibromofluoromethane* | *94* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *93* | | *64 - 132* |

**Lab Sample ID: 400-220382-2 MSD**
**Matrix: Water**
**Analysis Batch: 579059**

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 50.0 | 58.3 | | ug/L | | 117 | 56 - 142 | 6 | 30 |
| Toluene | <1.0 | | 50.0 | 53.5 | | ug/L | | 107 | 65 - 130 | 8 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 56.3 | | ug/L | | 113 | 58 - 131 | 6 | 30 |

# QC Sample Results

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

Job ID: 400-220382-1

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

**Lab Sample ID: 400-220382-2 MSD**
**Matrix: Water**
**Analysis Batch: 579059**

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | <10 | | 100 | 111 | | ug/L | | 111 | 59 - 130 | 5 | 30 |

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

Released to Imaging: 12/8/2022 10:49:53 AM
Received by OCD: 9/16/2022 3:34:40 PM

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

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information | Sampler: Sarah Gardner / Sean Clary | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-111388-39044.1 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 303 291 2239 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: | Page: Page ~~1 of 2~~ 1 of 1 |
| Company: Stantec Consulting Services Inc | PWSID: | | | Job #: |
| Address: 11311 Aurora Avenue | Due Date Requested: | | | |
| City: Des Moines | TAT Requested (days): See ARF | | | |
| State, Zip: IA, 50322-7904 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040036 | | | |
| Email: steve.varsa@stantec.com | WO #: ERG-STN-05-06-22-SAH-01 | | | |
| Project Name: ~~Canada Mesa #2.00~~ Miles Federal IA | Project #: 40005479 | | | |
| Site: Miles Fed IA | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

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

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - (MOD) BTEX 8260 | 8260C - (MOD) BTEX 8260 (unpreserved) | 8260C - BTEX 8260 (unpreserved) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | N | | |
| Trip Blank | 5/22/2022 | 1245 | G | Water | | | | 1 | | | |
| MW-1R | 5/22/2022 | 1250 | G | Water | | | | 3 | | 3 | |
| MW-2 | 5/22/2022 | 1300 | G | Water | | | | 3 | | 3 | |
| MW-3 | 5/22/2022 | 1320 | G | Water | | | | 3 | | 3 | |
| DUP-01 | 5/22/2022 | 1350 | G | Water | | | | 3 | | 3 | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |
| | | | | Water | | | | | | | |

400-220382 COC

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

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

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

Special Instructions/QC Requirements:

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

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Sean Clary | ~~5~~ 5/23/2022 1215 | Stantec | MWD | 5/24/22 0902 | EETS |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

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

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

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220382-1

**Login Number: 220382** **List Source: Eurofins Pensacola**
**List Number: 1**
**Creator: Perez, Trina M**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 1.2°C IR-9 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-220382-1
Project/Site: Miles Federal 1A

## Laboratory: Eurofins Pensacola

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

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

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-223971-1
Client Project/Site: Miles Federal 1A.00

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

Attn: Steve Varsa

*Authorized for release by:*
*8/19/2022 10:44:59 AM*
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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

LINKS

Review your project results through my EOL

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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 Federal 1A.00

Laboratory Job ID: 400-223971-1

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# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Job ID: 400-223971-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-223971-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/4/2022 8:58 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 2.3º C.

**GC/MS VOA**
Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 400-587836 was outside cont limits. Sample matrix interference and/or non-homogeneity are suspected.

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.



Released to Imaging: 12/8/2022 10:49:53 AM

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Client Sample ID: MW1R — Lab Sample ID: 400-223971-1

No Detections.

## Client Sample ID: MW2 — Lab Sample ID: 400-223971-2

No Detections.

## Client Sample ID: MW3 — Lab Sample ID: 400-223971-3

No Detections.

## Client Sample ID: DP01 — Lab Sample ID: 400-223971-4

No Detections.

## Client Sample ID: TRIP BLANK — Lab Sample ID: 400-223971-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

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

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-223971-1 | MW1R | Water | 08/02/22 14:45 | 08/04/22 08:58 |
| 400-223971-2 | MW2 | Water | 08/02/22 14:55 | 08/04/22 08:58 |
| 400-223971-3 | MW3 | Water | 08/02/22 15:00 | 08/04/22 08:58 |
| 400-223971-4 | DP01 | Water | 08/02/22 12:00 | 08/04/22 08:58 |
| 400-223971-5 | TRIP BLANK | Water | 08/02/22 12:00 | 08/04/22 08:58 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Client Sample ID: MW1R

**Date Collected: 08/02/22 14:45**
**Date Received: 08/04/22 08:58**

## Lab Sample ID: 400-223971-1

**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 | | | 08/07/22 13:10 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 13:10 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 13:10 | 1 |
| Xylenes, Total | <10 | F2 | 10 | | ug/L | | | 08/07/22 13:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *72 - 119* | | *08/07/22 13:10* | *1* |
| *Dibromofluoromethane* | *106* | | *75 - 126* | | *08/07/22 13:10* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *08/07/22 13:10* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Client Sample ID: MW2

**Date Collected: 08/02/22 14:55**
**Date Received: 08/04/22 08:58**

## Lab Sample ID: 400-223971-2

**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 | | | 08/07/22 15:58 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 15:58 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 15:58 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 08/07/22 15:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *72 - 119* | | *08/07/22 15:58* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *08/07/22 15:58* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* | | *08/07/22 15:58* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Client Sample ID: MW3
**Date Collected: 08/02/22 15:00**
**Date Received: 08/04/22 08:58**

## Lab Sample ID: 400-223971-3
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 16:19 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 16:19 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 16:19 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 08/07/22 16:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *104* | | *72 - 119* | | *08/07/22 16:19* | *1* |
| *Dibromofluoromethane* | *106* | | *75 - 126* | | *08/07/22 16:19* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *08/07/22 16:19* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Client Sample ID: DP01
**Date Collected: 08/02/22 12:00**
**Date Received: 08/04/22 08:58**

## Lab Sample ID: 400-223971-4
**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 | | | 08/07/22 16:40 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 16:40 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 16:40 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 08/07/22 16:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *72 - 119* | | *08/07/22 16:40* | *1* |
| *Dibromofluoromethane* | *108* | | *75 - 126* | | *08/07/22 16:40* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* | | *08/07/22 16:40* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Client Sample ID: TRIP BLANK

**Date Collected: 08/02/22 12:00**
**Date Received: 08/04/22 08:58**

## Lab Sample ID: 400-223971-5

**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 | | | 08/07/22 13:31 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 13:31 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 13:31 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 08/07/22 13:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *72 - 119* | | *08/07/22 13:31* | *1* |
| *Dibromofluoromethane* | *103* | | *75 - 126* | | *08/07/22 13:31* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *64 - 132* | | *08/07/22 13:31* | *1* |

# Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| F2 | MS/MSD RPD exceeds control limits |

## Glossary

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

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## Client Sample ID: MW1R
**Lab Sample ID: 400-223971-1**
**Date Collected: 08/02/22 14:45**
**Matrix: Water**
**Date Received: 08/04/22 08:58**

| 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 | 587836 | 08/07/22 13:10 | AGW | EET PEN |
| | Instrument ID: Darwin | | | | | | | | | |

## Client Sample ID: MW2
**Lab Sample ID: 400-223971-2**
**Date Collected: 08/02/22 14:55**
**Matrix: Water**
**Date Received: 08/04/22 08:58**

| 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 | 587836 | 08/07/22 15:58 | AGW | EET PEN |
| | Instrument ID: Darwin | | | | | | | | | |

## Client Sample ID: MW3
**Lab Sample ID: 400-223971-3**
**Date Collected: 08/02/22 15:00**
**Matrix: Water**
**Date Received: 08/04/22 08:58**

| 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 | 587836 | 08/07/22 16:19 | AGW | EET PEN |
| | Instrument ID: Darwin | | | | | | | | | |

## Client Sample ID: DP01
**Lab Sample ID: 400-223971-4**
**Date Collected: 08/02/22 12:00**
**Matrix: Water**
**Date Received: 08/04/22 08:58**

| 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 | 587836 | 08/07/22 16:40 | AGW | EET PEN |
| | Instrument ID: Darwin | | | | | | | | | |

## Client Sample ID: TRIP BLANK
**Lab Sample ID: 400-223971-5**
**Date Collected: 08/02/22 12:00**
**Matrix: Water**
**Date Received: 08/04/22 08:58**

| 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 | 587836 | 08/07/22 13:31 | AGW | EET PEN |
| | Instrument ID: Darwin | | | | | | | | | |

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

# QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

## GC/MS VOA

### Analysis Batch: 587836

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-223971-1 | MW1R | Total/NA | Water | 8260C | |
| 400-223971-2 | MW2 | Total/NA | Water | 8260C | |
| 400-223971-3 | MW3 | Total/NA | Water | 8260C | |
| 400-223971-4 | DP01 | Total/NA | Water | 8260C | |
| 400-223971-5 | TRIP BLANK | Total/NA | Water | 8260C | |
| MB 400-587836/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-587836/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-223971-1 MS | MW1R | Total/NA | Water | 8260C | |
| 400-223971-1 MSD | MW1R | Total/NA | Water | 8260C | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

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

### Lab Sample ID: MB 400-587836/4
### Matrix: Water
### Analysis Batch: 587836

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 | | | 08/07/22 10:22 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 10:22 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 08/07/22 10:22 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 08/07/22 10:22 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *72 - 119* | | *08/07/22 10:22* | *1* |
| *Dibromofluoromethane* | *106* | | *75 - 126* | | *08/07/22 10:22* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* | | *08/07/22 10:22* | *1* |

### Lab Sample ID: LCS 400-587836/1002
### Matrix: Water
### Analysis Batch: 587836

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 | 50.7 | | ug/L | | 101 | 70 - 130 | | |
| Toluene | | | 50.0 | 48.6 | | ug/L | | 97 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 46.9 | | ug/L | | 94 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 95.1 | | ug/L | | 95 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *72 - 119* |
| *Dibromofluoromethane* | *105* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* |

### Lab Sample ID: 400-223971-1 MS
### Matrix: Water
### Analysis Batch: 587836

Client Sample ID: MW1R
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 | 42.6 | | ug/L | | 85 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 36.6 | | ug/L | | 73 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 29.8 | | ug/L | | 60 | 58 - 131 | | |
| Xylenes, Total | <10 | F2 | 100 | 59.4 | | ug/L | | 59 | 59 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 119* |
| *Dibromofluoromethane* | *104* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* |

### Lab Sample ID: 400-223971-1 MSD
### Matrix: Water
### Analysis Batch: 587836

Client Sample ID: MW1R
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 | 47.6 | | ug/L | | 95 | 56 - 142 | 11 | 30 |
| Toluene | <1.0 | | 50.0 | 44.9 | | ug/L | | 90 | 65 - 130 | 20 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 39.8 | | ug/L | | 80 | 58 - 131 | 29 | 30 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Miles Federal 1A.00

Job ID: 400-223971-1

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

**Lab Sample ID: 400-223971-1 MSD**
**Matrix: Water**
**Analysis Batch: 587836**

**Client Sample ID: MW1R**
**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 | F2 | 100 | 80.9 | F2 | ug/L | | 81 | 59 - 130 | 31 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *72 - 119* |
| *Dibromofluoromethane* | *102* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* |

Released to Imaging: 12/8/2022 10:49:53 AM
Received by OCD: 9/16/2022 3:34:40 PM

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

# Chain of Custody Record

eurofins Environment Testing America

| Client Information | Sampler: Rob Malcomson | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-112825-39521.1 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 515 710 9815 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: NM | Page: Page 1 of 1 |
| Company: Stantec Consulting Services Inc | PWSID: | Analysis Requested | | Job #: 193709851 |
| Address: 11311 Aurora Avenue | Due Date Requested: | | | Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify) |
| City: Des Moines | TAT Requested (days): | | | |
| State, Zip: IA, 50322-7904 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1039996 | | | Other: |
| Email: steve.varsa@stantec.com | WO #: ERG-STN-07-06-22 CSH-2 | | | |
| Project Name: Miles Fed 1A.00 EPCGP | Project #: 40005479 | | | |
| Site: | SSOW#: | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - BTEX 8260 | 8260C - BTEX 8260 (unpreserved) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | | |
| MW1R | 8/2/22 | 1445 | G | Water | | | | X | | |
| MW2 | 8/2/22 | 1455 | G | Water | | | X | | | |
| MW3 | 8/2/22 | 1500 | G | Water | | | X | | | |
| DP01 | 8/2/22 | — | G | Water | | | | X | | |
| Trip Blank | — | — | G | Water | | | X | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

400-223971 COC

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

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

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

Special Instructions/QC Requirements:

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

| | Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|---|
| 1 | Rob Malcomson | 8/2/22 1200 | Stantec | FedEx | 8/2/22 1200 | |
| 2 | | | | | | |
| 3 | | | | | 8-4-22 // 858. | |

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

Cooler Temperature(s) °C and Other Remarks: 2.3°C IR8

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-223971-1

**Login Number: 223971** **List Source: Eurofins Pensacola**
**List Number: 1**
**Creator: Whitley, Adrian**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 2.3°C IR8 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-223971-1
Project/Site: Miles Federal 1A.00

## Laboratory: Eurofins Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Alabama | State | 40150 | 06-30-23 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arkansas DEQ | State | 88-0689 | 09-01-22 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-22 |
| Kansas | NELAP | E-10253 | 10-31-22 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Kentucky (WW) | State | KY98030 | 12-31-22 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-22 |
| Maryland | State | 233 | 09-30-22 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-22 |
| Oklahoma | NELAP | 9810 | 08-31-22 |
| Pennsylvania | NELAP | 68-00467 | 01-31-23 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-22 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-23 |

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

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

CONDITIONS

Action 144205

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| El Paso Natural Gas Company, L.L.C<br>1001 Louisiana Street<br>Houston, TX 77002 | 7046 |
| | Action Number:<br>144205 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| nvelez | Conditional approval granted. Final approval based on evidence provided of monitor well plug and abandonment completion. | 12/8/2022 |