# 2023 ANNUAL GROUNDWATER REPORT

REVIEWED
By Mike Buchanan at 4:26 pm, Sep 04, 2024

**Johnston Fed #4**
**Incident Number: nAUTOfAB000305**
**Meter Code: 70194**
**T31N, R09W, Sec 27, Unit N**

## SITE DETAILS

**Site Location:** Latitude: 36.862800 N, Longitude: -107.771983 W
**Land Type:** Private/Fee
**Operator:** Hilcorp Energy

## SITE BACKGROUND

Environmental remediation activities at Johnston Fed #4 (Site) are managed pur set forth in the document entitled, "*Remediation Plan for Groundwater Encounte Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Ser This Remediation Plan was conditionally approved by the New Mexico Oil (NMOCD) in correspondence dated November 30, 1995; and the NMOCD ap adopted into El Paso CGP Company (EPCGP's) program methods. Currently, Hilcorp Energy and is active.

The Site is located on Private/Fee land. An initial site assessment was completed excavation of 60 cubic yards (cy) to a depth of approximately 12 feet below gr completed in September 1994. Monitoring wells were installed in 1995 (MW-1 (MW-4, TMW-5), 2013 (MW-6 through MW-12), 2014 (MW-13 through M through MW-23) and 2022 (MW-24 and MW-25). Remediation wells were in TW-2, and SVE-1), 2020 (AS-3 through AS-22 and SVE-2 through SVE-8), and SVE-14). Temporary monitoring well TMW-5 was plugged and abandoned in history is presented in Appendix A.

The location of the Site is depicted on Figure 1. A Site Plan map depicting the wells and current and historical site features is provided as Figure 2. Light no (LNAPL) has been observed at the Site and is periodically recovered. Mobile dual-phase extraction (MDPE) events to enhance LNAPL recovery were conducted in 2016 and 2018 to help abate LNAPL. Quarterly manual LNAPL recovery began in the second quarter of 2020 and has continued through 2023. An LNAPL skimmer system was installed at MW-21 in 2022 to enhance LNAPL recovery at this location. Currently, groundwater sampling is conducted from selected monitoring wells on a semi-annual basis.

Review of the Johnston Fed #4 Site, 2023 Annual Groundwater Monitoring Report: content satisfactory
1. Continue to conduct semi-annual monitoring for groundwater as prescribed for those wells not conveying LNAPL.
2. The OCD was notified on 11/22/2023 of installation activities for the SVE system and approximately when that would be installed, at the beginning of 2024.
3. Keep OCD abreast of what is operating currently at the site for SVE and AS, and what the status is for those systems.
4. Submit the 2024 annual report to OCD by April 1, 2025.

## SVE SYSTEM INSTALLATION ACTIVITIES

Beginning November 27 through December 1, 2023, Stantec oversaw the installation of additional SVE infrastructure at the Site. Halo Services, Inc was contracted to perform the trenching, pipe installation, backfilling, and site restoration. The work proceeded in accordance with the work plan submitted to NMOCD on November 22, 2023 (Work Plan). The NMOCD was also notified of the start of the installation activities (Appendix B). The scope of work completed included installing additional SVE conveyance piping to connect to SVE wells SVE-9 through SVE-12, installing a buried portion of a natural gas service line located between the equipment pad and the wellhead gas meter, expanding the gravel pad around the equipment pad area, realigning the fenced-in remediation area, and other improvements in advance of installing remediation equipment at the Site (Figure 2). Installation of a natural gas generator was delayed until a thermal oxidizer can also be delivered and installed at the Site.

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Field observations and soil screening with a photoionization detector (PID) did not identify petroleum contaminated soil during excavation activities; therefore, native soil was used to backfill around the installed high density polyethylene piping and gas line, and no soil sampling was conducted. Groundwater was not encountered during trenching and trenching also did not uncover any former production structures requiring removal. As a result, there were no significant deviations from the scope of work proposed in the Work Plan. Daily Report Forms summarizing the work performed each day are included as Appendix C. A photolog showing construction details, the progression of the work, and the final site conditions are provided in Appendix D.

## GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via electronic mail (email) to the NMOCD on May 12, 2023, and November 2, 2023, prior to initiating groundwater sampling activities at the Site. Copies of the 2023 NMOCD notifications are provided in Appendix B.

Groundwater monitoring and sampling was completed on May 19 and November 11, 2023. Water levels were gauged at MW-1 through MW-25 during the May 2023 and November 2023 sampling events. During the May sampling event, monitoring wells MW-6, MW-9, MW-13, MW-15 through MW-20, and MW-22 through MW-25 were sampled. During the November sampling event, monitoring wells MW-1 through MW-4, MW-6, MW-9 through MW-20, and MW-22 through MW-25 were sampled.

Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve to sample the interval expected to be the most transmissive within the saturated screen interval. Prior to the November 2023 sampling event, the depths of HydraSleeves in monitoring wells MW-14 thorough MW-18 were readjusted to better sample this more transmissive unit. If an apparent transmissive unit was not evident, the HydraSleeve was set approximately 0.5 foot above the bottom of the screened interval.

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

The unused sample water was combined in a waste container and transported to Envirotech, Inc. (Envirotech) in Bloomfield, NM for disposal. Waste disposal documentation is included in Appendix E.

## LNAPL RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly LNAPL recovery activities beginning in the second calendar quarter of 2020. Documentation of NMOCD notification of site LNAPL recovery activities in 2023 is provided in Appendix B. LNAPL was observed and recovered in monitoring wells MW-7 and MW-8 during all four site visits in 2023. In August 2023, LNAPL was also observed in MW-22.

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During the groundwater sampling site visits in May and November, recovered LNAPL was disposed of with wastewater generated during the monitoring well sampling activities. Recovered LNAPL from the March and August site visit was disposed at Envirotech (Appendix E).

An LNAPL skimmer system enclosed in a Container Express container (CONEX) was placed over monitoring well MW-21 to enhance recovery efforts at this location. Regular Operation and Maintenance (O&M) visits are conducted by Stantec or Sierra Oilfield Services, Inc. (Sierra). A summary of the amount recovered from MW-21 in 2023 is presented in Table 1. The skimmer system was inactive prior to March 2023 and after November 2023 due to a lack of measurable LNAPL in MW-21.

## SUMMARY TABLES

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

## SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2023 groundwater sampling and gauging events.

## ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix F.

## GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the east-southeast during 2023 (see Figures 4 and 6).
- LNAPL was observed in MW-7, MW-8, and MW-21 during the May 2023 and November 2023 sampling events; therefore, no groundwater samples were collected at these locations.
- At least one groundwater sample collected in 2023 from MW-1, MW-3, MW-9, MW-10, MW-11, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-22, and MW-24 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Concentrations of benzene in the remaining samples collected from Site monitoring wells in 2023 were either below the NMWQCC standard or were not detected.
- The groundwater sample collected in November 2023 from MW-1 exceeded the NMWQCC standard (750 µg/L) for toluene in groundwater. Concentrations of toluene in the remaining samples collected from Site monitoring wells in 2023 were either below the NMWQCC standard or were not detected.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750 µg/L) or were not detected in the Site monitoring wells sampled in 2023.
- At least one groundwater sample collected in 2023 from MW-1, MW-17, and MW-22 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater.

Concentrations of total xylenes in the remaining samples collected from Site monitoring wells in 2023 were either below the NMWQCC standard or were not detected.

- A field duplicate was collected from monitoring well MW-24 in May 2023 and from MW-6 and MW-24 in November 2023. The relative percent difference for benzene in the November 2023 primary/duplicate pair collected from MW-24 was greater than 50%. A review of the laboratory analytical report and field notes did not reveal a potential cause of this discrepancy in results. No additional significant differences were noted between the remaining primary and the duplicate groundwater sample results.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2023 groundwater monitoring events.

## PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will continue to be conducted on a semi-annual basis, from a selection of site monitoring wells which provides an adequate representation of site conditions. Groundwater samples will be collected from key monitoring wells not containing LNAPL on a semi-annual basis and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event. Sampling of the 24 site monitoring wells is to be conducted in the fourth calendar quarter of 2024.

Installation of a Soil Vapor Extraction (SVE) and Air Sparge (AS) remediation system is planned for 2024 and will be coordinated with the site operator. Pursuant to the RAP, the NMOCD will be notified when the remediation equipment is ready for installation at the Site.

Until the AS/SVE remediation system is operating, manual recovery of LNAPL will continue on a quarterly basis from monitoring wells where measurable LNAPL is present. Pursuant to the August 19, 2022 Work Plan, EPCGP intends to keep the current skimmer system at MW-21 in use until it can be moved to another location.

The activities conducted in 2024, and their results, will be summarized in the 2024 Annual Report, to be completed for submittal by April 1, 2025.

# TABLES

**TABLE 1**

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

**Johnston Federal #4**

| Well ID - MW-1 | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 4/16/2016 | 51.61 | 51.68 | 0.07 | 0.01 | <0.01 | manual |
| 5/25/2016 | 51.58 | 51.61 | 0.03 | 0 | 0 | No Recovery |
| 10/12/2016 | 51.71 | 51.73 | 0.02 | <0.01 | <0.01 | manual |
| 12/13/2016 | 51.80 | 51.81 | 0.01 | <0.01 | <0.01 | manual |
| 6/9/2017 | 51.76 | 51.78 | 0.02 | <0.01 | <0.01 | manual |
| 7/15/2017 | 51.85 | 51.87 | 0.02 | 15.6 | 790 | MDPE* |
| 11/12/2017 | 51.85 | 51.86 | 0.01 | <0.01 | <0.01 | manual |
| 5/16/2018 | 51.83 | 51.97 | 0.14 | 0.02 | NR | manual |
| 7/15/2018 | 51.64 | 51.75 | 0.11 | 19.7 | 285 | MDPE* |
| 5/22/2019 | 51.85 | 51.96 | 0.11 | <0.01 | NR | manual |
| 11/12/2019 | 51.93 | 51.95 | 0.02 | 0.01 | <0.01 | manual |
| 5/17/2020 | 52.03 | 52.05 | 0.02 | <0.01 | <0.01 | manual |
| 8/19/2020 | 52.10 | 52.11 | 0.01 | <0.01 | 0.2 | manual |
| 11/13/2020 | 52.14 | 52.15 | 0.01 | <0.01 | 0.1 | manual |
| 5/18/2021 | 52.23 | 52.24 | 0.01 | <0.01 | 0.1 | manual |
| 8/22/2021 | ND | 52.23 | 0.00 | 0.00 | 0.05 | manual |
| 11/5/2022 | 52.05 | 52.06 | 0.01 | <0.01 | 0.09 | manual |
| | | | **Total:** | 35.3 | 1076 | |

| Well ID - MW-3 | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 4/16/2016 | 51.20 | 51.90 | 0.70 | 0.83 | <0.01 | manual |
| 5/25/2016 | 51.26 | 51.61 | 0.35 | 0.20 | <0.01 | manual |
| 6/20/2016 | NM | NM | 0.22 | 0.20 | 0.01 | manual |
| 7/22/2016 | NM | NM | 0.22 | 0.11 | 0.01 | manual |
| 11/15/2016 | 51.70 | 51.71 | 0.01 | <0.01 | <0.01 | manual |
| 11/30/2016 | 51.58 | 51.79 | 0.21 | 5.9 | 168 | MDPE* |
| 6/9/2017 | 51.50 | 51.52 | 0.02 | <0.01 | <0.01 | manual |
| 7/15/2017 | ND | 51.77 | ND | 7.1 | 760 | MDPE* |
| 11/12/2017 | 51.54 | 51.55 | 0.01 | <0.01 | <0.01 | manual |
| 5/16/2018 | 51.47 | 52.05 | 0.58 | 0.22 | NR | manual |
| 7/15/2018 | ND | 51.77 | ND | 15.5 | 709 | MDPE* |
| 5/22/2019 | 51.79 | 52.02 | 0.23 | 0.03 | NR | manual |
| 11/12/2019 | 51.84 | 51.89 | 0.05 | 0.07 | 0.18 | manual |
| 5/17/2020 | 51.96 | 52.12 | 0.16 | 0.11 | 0.66 | manual |
| 8/19/2020 | 52.04 | 52.14 | 0.10 | 0.03 | 1.02 | manual |
| 11/13/2020 | 52.10 | 52.12 | 0.02 | <0.01 | 0.1 | manual |
| 3/18/2021 | 52.19 | 52.26 | 0.07 | 0.03 | 0.48 | manual |
| 5/18/2021 | 52.21 | 52.25 | 0.04 | 0.02 | 0.13 | manual |
| 8/22/2021 | 52.23 | 52.27 | 0.04 | <0.01 | 0.21 | manual |
| 11/15/2021 | 52.27 | 52.32 | 0.05 | <0.01 | 0.53 | manual |

**TABLE 1**

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

**Johnston Federal #4**

| Well ID - MW-3 (cont.) | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 5/20/2022 | 52.29 | 52.33 | 0.04 | <0.01 | 0.12 | manual |
| 7/30/2022 | 52.32 | 52.34 | 0.02 | <0.01 | 0.13 | manual |
| 11/5/2022 | 52.04 | 52.05 | 0.01 | <0.01 | 0.09 | manual |
| | | | **Total:** | 30.4 | 1641 | |

| Well ID - MW-7 | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 5/16/2018 | 50.98 | 51.86 | 0.88 | 0.33 | NR | manual |
| 7/15/2018 | 51.03 | 51.82 | 0.79 | 16.0 | 310 | MDPE* |
| 10/26/2018 | 51.13 | 51.14 | 0.01 | <0.01 | 0.13 | manual |
| 5/22/2019 | 51.29 | 51.82 | 0.53 | 0.09 | NR | manual |
| 11/12/2019 | 51.28 | 52.08 | 0.80 | 0.26 | 0.29 | manual |
| 5/15/2020 | 51.33 | 52.21 | 0.88 | 0.39 | 0.48 | manual |
| 8/19/2020 | 51.42 | 52.30 | 0.88 | 0.31 | 1.2 | manual |
| 11/13/2020 | 51.43 | 52.34 | 0.91 | 0.28 | 1.1 | manual |
| 3/18/2021 | 51.20 | 51.53 | 0.33 | 0.23 | 0.55 | manual |
| 5/18/2021 | 51.52 | 52.41 | 0.89 | 0.25 | 0.17 | manual |
| 8/22/2021 | 51.72 | 52.03 | 0.31 | 0.03 | 0.5 | manual |
| 11/15/2021 | 51.80 | 51.94 | 0.14 | <0.01 | 0.85 | manual |
| 3/23/2022 | 51.86 | 51.92 | 0.06 | <0.01 | 0.11 | manual |
| 5/20/2022 | 51.83 | 51.88 | 0.05 | <0.01 | 0.05 | manual |
| 7/30/2022 | 51.87 | 51.90 | 0.03 | <0.01 | 0.03 | manual |
| 11/5/2022 | 51.59 | 51.60 | 0.01 | <0.01 | 0.14 | manual |
| 3/28/2023 | 51.28 | 51.79 | 0.51 | 0.23 | 1.25 | manual |
| 5/19/2023 | 51.30 | 51.61 | 0.31 | 0.05 | 0.23 | manual |
| 8/30/2023 | 51.22 | 51.49 | 0.27 | 0.09 | 2.19 | manual |
| 11/11/2023 | 51.31 | 51.34 | 0.03 | <0.01 | 0.21 | manual |
| | | | **Total:** | 18.5 | 319 | |

| Well ID - MW-8 | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 4/16/2016 | 50.68 | 51.44 | 0.76 | 0.55 | <0.01 | manual |
| 4/20/2016 | 50.71 | 51.42 | 0.71 | 0.33 | 0.01 | manual |
| 5/25/2016 | 50.68 | 51.43 | 0.75 | 0.21 | <0.01 | manual |
| 6/20/2016 | NM | NM | 0.25 | 0.23 | 0.01 | manual |
| 7/22/2016 | NM | NM | 0.41 | 0.29 | 0.01 | manual |
| 8/17/2016 | NM | NM | 0.65 | 0.27 | <0.01 | manual |
| 10/12/2016 | 50.81 | 51.52 | 0.71 | 0.32 | 0.03 | manual |
| 11/15/2016 | 51.00 | 51.60 | 0.60 | 0.33 | 0.02 | manual |

**TABLE 1**

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

**Johnston Federal #4**

| Well ID - MW-8 (cont.) | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| **Date** | | | | | | |
| 12/13/2016 | NM | NM | 0.01 | <0.01 | <0.01 | manual |
| 6/9/2017 | 51.01 | 51.11 | 0.10 | <0.01 | <0.01 | manual |
| 7/15/2017 | 50.68 | 52.28 | 1.60 | 46.5 | 2596 | MDPE* |
| 7/18/2017 | 51.15 | 51.71 | 0.56 | 44.4 | 3231 | MDPE* |
| 11/12/2017 | 50.78 | 50.82 | 0.04 | <0.01 | <0.01 | manual |
| 5/16/2018 | 50.90 | 51.83 | 0.93 | 0.53 | NR | manual |
| 7/15/2018 | 51.13 | 52.51 | 1.38 | 39.0 | 1521 | MDPE* |
| 5/22/2019 | 51.09 | 52.12 | 1.03 | 0.36 | NR | manual |
| 11/12/2019 | 51.15 | 52.74 | 1.59 | 0.48 | 0.26 | manual |
| 5/17/2020 | 51.23 | 52.41 | 1.18 | 0.82 | 0.52 | manual |
| 8/19/2020 | 51.30 | 52.53 | 1.23 | 0.77 | 1.23 | manual |
| 11/13/2020 | 51.36 | 52.53 | 1.17 | 0.69 | 1.1 | manual |
| 3/18/2021 | 51.20 | 51.80 | 0.60 | 0.42 | 0.16 | manual |
| 5/18/2021 | 51.60 | 51.98 | 0.38 | 0.04 | 0.06 | manual |
| 8/22/2021 | 51.55 | 52.39 | 0.84 | 0.35 | 0.24 | manual |
| 11/15/2021 | 51.59 | 52.44 | 0.85 | 0.43 | 0.53 | manual |
| 3/23/2022 | 51.60 | 52.59 | 0.99 | 0.40 | 0.15 | manual |
| 5/20/2022 | 51.61 | 52.42 | 0.81 | 0.24 | 0.07 | manual |
| 7/30/2022 | 51.70 | 52.28 | 0.58 | 0.13 | 0.35 | manual |
| 11/5/2022 | 51.51 | 51.78 | 0.27 | 0.08 | 0.51 | manual |
| 3/28/2023 | 51.34 | 51.44 | 0.10 | 0.03 | 0.53 | manual |
| 5/19/2023 | 51.31 | 51.42 | 0.11 | 0.03 | 0.08 | manual |
| 8/30/2023 | 51.23 | 51.37 | 0.14 | 0.02 | 1.27 | manual |
| 11/11/2023 | 51.26 | 51.37 | 0.11 | 0.01 | 0.10 | manual |
| | | | **Total:** | 138.3 | 7355 | |

| Well ID - MW-11 | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| **Date** | | | | | | |
| 4/16/2016 | 51.51 | 51.80 | 0.29 | 0.45 | <0.01 | manual |
| 5/25/2016 | 51.26 | 51.61 | 0.35 | 0.08 | 0.13 | manual |
| 6/20/2016 | NM | NM | 0.02 | 0.07 | <0.01 | manual |
| 7/22/2016 | NM | NM | 0.22 | 0.16 | 0.01 | manual |
| 10/12/2016 | 51.68 | 51.80 | 0.12 | 0.03 | <0.01 | manual |
| 11/15/2016 | 51.80 | 51.81 | 0.01 | <0.01 | <0.01 | manual |
| 12/13/2016 | 51.80 | 51.83 | 0.03 | <0.01 | <0.01 | manual |
| 6/9/2017 | 51.22 | 53.24 | 2.02 | 4.0 | <0.01 | manual |
| 7/16/2017 | 51.29 | 53.13 | 1.84 | 29.2 | 464 | MDPE* |
| 11/12/2017 | 51.52 | 51.54 | 0.02 | <0.01 | <0.01 | manual |
| 5/16/2018 | 51.70 | 52.04 | 0.34 | 0.55 | NR | manual |
| 7/15/2018 | 51.82 | 52.52 | 0.70 | 64.3 | 350 | MDPE* |
| 5/22/2019 | 51.89 | 52.23 | 0.34 | <0.01 | NR | manual |

**TABLE 1**

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| Well ID - MW-11 (cont.) | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 11/12/2019 | 51.94 | 52.53 | 0.59 | 0.34 | 0.32 | manual |
| 8/19/2020 | 52.27 | 52.35 | 0.08 | 0.06 | 0.62 | manual |
| 11/13/2020 | 52.32 | 52.33 | 0.01 | <0.01 | 0.1 | manual |
| 8/22/2021 | 52.45 | 52.45 | <0.01 | <0.01 | 0.03 | manual |
| | | | **Total:** | 99.2 | 815 | |

| Well ID - MW-21 | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 11/13/2020 | 50.10 | 50.55 | 0.45 | 0.59 | 0.04 | manual |
| 3/18/2021 | 50.18 | 50.50 | 0.32 | 0.41 | 0.33 | manual |
| 5/18/2021 | 50.21 | 51.16 | 0.95 | 0.95 | 0.35 | manual |
| 8/22/2021 | 50.25 | 51.25 | 1.00 | 0.89 | 0.69 | manual |
| 11/15/2021 | 50.24 | 51.38 | 1.14 | 1.11 | 1.01 | manual |
| 3/23/2022 | 50.28 | 51.42 | 1.14 | 1.21 | 0.46 | manual |
| 5/20/2022 | 50.32 | 51.17 | 0.85 | 0.71 | 0.21 | manual |
| 7/31/2022 | 50.36 | 51.16 | 0.80 | 0.50 | 0.15 | manual |
| 8/1/2022 | 50.44 | 50.94 | 0.50 | 0.15 | 0.07 | manual |
| 8/27/2022 | 50.50 | 50.88 | 0.38 | 1.50 | 0.00 | Solar Skimmer** |
| 10/14/2022 | 50.39 | 50.42 | 0.03 | <0.01 | 0.00 | Solar Skimmer** |
| 2/16/2023 | 50.15 | 50.35 | 0.20 | <0.01 | 0.00 | Solar Skimmer** |
| 3/28/2023 | 50.09 | 50.11 | 0.02 | 1.83 | 0.00 | Solar Skimmer** |
| 4/20/2023 | ND | 50.10 | NC | 0.84 | 0.00 | Solar Skimmer** |
| 5/19/2023 | 50.10 | 50.13 | 0.03 | 1.25 | 0.00 | Solar Skimmer** |
| 6/28/2023 | 50.04 | 50.05 | 0.01 | 0.41 | 0.00 | Solar Skimmer** |
| 7/26/2023 | 50.03 | 50.06 | 0.03 | 0.84 | 0.00 | Solar Skimmer** |
| 8/30/2023 | 50.00 | 50.03 | 0.03 | NM | 0.00 | Solar Skimmer** |
| 11/11/2023 | 50.05 | 50.08 | 0.03 | 1.66 | 0.00 | Solar Skimmer** |
| 11/29/2023 | NM | NM | NC | NM | 0.00 | Solar Skimmer** |
| | | | **Total:** | 14.9 | 3.31 | |

| Well ID - MW-22 | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| Date | | | | | | |
| 5/17/2020 | 49.57 | 49.58 | 0.01 | <0.01 | 0.03 | manual |
| 8/19/2020 | 49.55 | 49.94 | 0.39 | 0.03 | 0.41 | manual |
| 11/13/2020 | 49.79 | 49.95 | 0.16 | 0.05 | 0.03 | manual |
| 3/18/2021 | 49.80 | 50.00 | 0.20 | 0.05 | 0.29 | manual |
| 5/18/2021 | 49.65 | 50.09 | 0.44 | 0.04 | 0.04 | manual |
| 8/22/2021 | 49.72 | 50.10 | 0.38 | 0.05 | 0.48 | manual |
| 11/15/2021 | 49.77 | 50.08 | 0.31 | 0.02 | 0.34 | manual |

**TABLE 1**

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

**Johnston Federal #4**

| Well ID - MW-22 (cont.) | Depth to LNAPL (Feet) | Depth to Water (Feet) | Measured Thickness (Feet) | LNAPL Recovered (gal) | Water Recovered (gal) | Recovery Type |
|---|---|---|---|---|---|---|
| **Date** | | | | | | |
| 3/23/2022 | 49.82 | 50.08 | 0.26 | 0.03 | 0.19 | manual |
| 7/31/2022 | 49.87 | 49.92 | 0.05 | <0.01 | 0.05 | manual |
| 8/1/2022 | 49.87 | 49.93 | 0.06 | 0.00 | 0.00 | manual |
| 11/5/2022 | 49.60 | 49.61 | 0.01 | <0.01 | 0.13 | manual |
| 8/30/2023 | 49.31 | 49.32 | 0.01 | <0.01 | 0.12 | manual |
| | | | **Total:** | 0.3 | 2.1 | |

Notes:

NM = Not Measured. Measured thickness was obtained by measuring the thickness within a bailer.

ND = Not Detected.

NC = Not Calculated.

* = Mobile Dual Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.

** = Skimmer LNAPL volume includes entrained water collected during operation.

NR = Data not recorded

gal = gallons

LNAPL = Light non-aqueous phase liquid

LNAPL recovery data for 2015 and previous years documented in previously-submitted reports.

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-1 | 08/08/95 | 590 | 2040 | 137 | 1764 |
| MW-1 | 01/04/96 | 7380 | 20900 | 1480 | 14600 |
| MW-1 | 12/17/96 | 762 | 1930 | 107 | 1270 |
| MW-1 | 03/06/97 | 483 | 1110 | 66.1 | 678 |
| MW-1 | 06/22/01 | NS | NS | NS | NS |
| MW-1 | 09/04/01 | NS | NS | NS | NS |
| MW-1 | 03/04/02 | NS | NS | NS | NS |
| MW-1 | 06/03/02 | NS | NS | NS | NS |
| MW-1 | 09/10/02 | NS | NS | NS | NS |
| MW-1 | 12/12/02 | NS | NS | NS | NS |
| MW-1 | 03/14/03 | NS | NS | NS | NS |
| MW-1 | 06/18/03 | NS | NS | NS | NS |
| MW-1 | 09/16/03 | NS | NS | NS | NS |
| MW-1 | 12/17/03 | NS | NS | NS | NS |
| MW-1 | 03/16/04 | NS | NS | NS | NS |
| MW-1 | 06/22/04 | NS | NS | NS | NS |
| MW-1 | 09/22/04 | NS | NS | NS | NS |
| MW-1 | 12/21/04 | NS | NS | NS | NS |
| MW-1 | 03/23/05 | NS | NS | NS | NS |
| MW-1 | 06/23/05 | NS | NS | NS | NS |
| MW-1 | 09/20/05 | NS | NS | NS | NS |
| MW-1 | 12/14/05 | NS | NS | NS | NS |
| MW-1 | 12/15/05 | NS | NS | NS | NS |
| MW-1 | 03/27/06 | NS | NS | NS | NS |
| MW-1 | 06/07/06 | NS | NS | NS | NS |
| MW-1 | 09/25/06 | NS | NS | NS | NS |
| MW-1 | 12/07/06 | NS | NS | NS | NS |
| MW-1 | 03/28/07 | NS | NS | NS | NS |
| MW-1 | 06/18/07 | NS | NS | NS | NS |
| MW-1 | 09/17/07 | NS | NS | NS | NS |
| MW-1 | 12/17/07 | NS | NS | NS | NS |
| MW-1 | 03/10/08 | NS | NS | NS | NS |
| MW-1 | 06/17/08 | NS | NS | NS | NS |
| MW-1 | 09/10/08 | NS | NS | NS | NS |
| MW-1 | 12/02/08 | NS | NS | NS | NS |
| MW-1 | 03/03/09 | NS | NS | NS | NS |
| MW-1 | 06/09/09 | 1630 | 3000 | 268 | 3880 |
| MW-1 | 08/28/09 | NS | NS | NS | NS |
| MW-1 | 11/04/09 | NS | NS | NS | NS |
| MW-1 | 02/11/10 | NS | NS | NS | NS |
| MW-1 | 06/07/10 | 1630 | 3130 | 213 | 3840 |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-1 | 09/24/10 | NS | NS | NS | NS |
| MW-1 | 11/02/10 | NS | NS | NS | NS |
| MW-1 | 02/07/11 | NS | NS | NS | NS |
| MW-1 | 05/10/11 | 1000 | 1710 | 206 | 2400 |
| MW-1 | 09/23/11 | NS | NS | NS | NS |
| MW-1 | 11/01/11 | NS | NS | NS | NS |
| MW-1 | 02/21/12 | NS | NS | NS | NS |
| MW-1 | 05/14/12 | 1200 | 2170 | 152 | 2580 |
| MW-1 | 06/09/13 | 3900 | 14000 | 610 | 10000 |
| MW-1 | 09/09/13 | NS | NS | NS | NS |
| MW-1 | 12/12/13 | NS | NS | NS | NS |
| MW-1 | 04/02/14 | NS | NS | NS | NS |
| MW-1 | 10/23/14 | NS | NS | NS | NS |
| MW-1 | 05/29/15 | 1600 | 4000 | 220 | 2400 |
| MW-1 | 11/23/15 | NS | NS | NS | NS |
| MW-1 | 04/16/16 | NS | NS | NS | NS |
| MW-1 | 10/12/16 | NS | NS | NS | NS |
| MW-1 | 06/09/17 | NS | NS | NS | NS |
| MW-1 | 11/12/17 | NS | NS | NS | NS |
| MW-1 | 05/16/18 | NS | NS | NS | NS |
| MW-1 | 07/15/18 | NS | NS | NS | NS |
| MW-1 | 10/26/18 | NS | NS | NS | NS |
| MW-1 | 05/22/19 | NS | NS | NS | NS |
| MW-1 | 11/12/19 | NS | NS | NS | NS |
| MW-1 | 05/17/20 | NS | NS | NS | NS |
| MW-1 | 11/13/20 | NS | NS | NS | NS |
| MW-1 | 05/18/21 | NS | NS | NS | NS |
| MW-1 | 11/15/21 | NS | NS | NS | NS |
| MW-1 | 05/20/22 | NS | NS | NS | NS |
| MW-1 | 11/05/22 | NS | NS | NS | NS |
| MW-1 | 05/19/23 | NS | NS | NS | NS |
| MW-1 | 11/11/23 | 420000 | 5700 | 140 | 3700 |
| | | | | | |
| MW-2 | 01/04/96 | 1104 | 5107 | 479 | 4640 |
| MW-2 | 12/17/96 | 5900 | 8970 | 197 | 4670 |
| MW-2 | 03/06/97 | 4500 | 6480 | 236 | 4920 |
| MW-2 | 06/22/01 | 2800 | 180 | 41 | 140 |
| MW-2 | 09/04/01 | NS | NS | NS | NS |
| MW-2 | 06/03/02 | 370 | 11 | 24 | 18 |
| MW-2 | 09/10/02 | NS | NS | NS | NS |
| MW-2 | 12/12/02 | NS | NS | NS | NS |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-2 | 06/18/03 | 186 | <5 | 34.9 | 16.8 |
| MW-2 | 09/16/03 | NS | NS | NS | NS |
| MW-2 | 12/17/03 | NS | NS | NS | NS |
| MW-2 | 03/16/04 | NS | NS | NS | NS |
| MW-2 | 06/22/04 | 88.9 | 24 | 32.9 | 15.2 |
| MW-2 | 09/22/04 | NS | NS | NS | NS |
| MW-2 | 12/21/04 | NS | NS | NS | NS |
| MW-2 | 03/23/05 | NS | NS | NS | NS |
| MW-2 | 06/23/05 | 283 | 9.4 | 27.7 | 64.5 |
| MW-2 | 09/20/05 | NS | NS | NS | NS |
| MW-2 | 12/14/05 | NS | NS | NS | NS |
| MW-2 | 03/27/06 | NS | NS | NS | NS |
| MW-2 | 06/07/06 | 92.1 | 18.4 | 4.4 | 5.9 |
| MW-2 | 09/25/06 | NS | NS | NS | NS |
| MW-2 | 12/07/06 | NS | NS | NS | NS |
| MW-2 | 03/28/07 | NS | NS | NS | NS |
| MW-2 | 06/19/07 | 83 | <1 | 7.3 | 7.2 |
| MW-2 | 09/17/07 | NS | NS | NS | NS |
| MW-2 | 12/17/07 | NS | NS | NS | NS |
| MW-2 | 03/10/08 | NS | NS | NS | NS |
| MW-2 | 06/17/08 | 201 | 4.2 | 16.6 | 17.9 |
| MW-2 | 09/10/08 | NS | NS | NS | NS |
| MW-2 | 12/02/08 | NS | NS | NS | NS |
| MW-2 | 03/03/09 | NS | NS | NS | NS |
| MW-2 | 06/04/09 | NS | NS | NS | NS |
| MW-2 | 06/09/09 | 18.5 | 0.82 J | 2.8 | 6.9 |
| MW-2 | 08/28/09 | NS | NS | NS | NS |
| MW-2 | 11/04/09 | NS | NS | NS | NS |
| MW-2 | 02/11/10 | NS | NS | NS | NS |
| MW-2 | 06/07/10 | 5.6 | 0.99 J | <2 | <6 |
| MW-2 | 09/24/10 | NS | NS | NS | NS |
| MW-2 | 11/02/10 | NS | NS | NS | NS |
| MW-2 | 02/07/11 | NS | NS | NS | NS |
| MW-2 | 05/10/11 | 5.3 | 1.2 | 0.046 J | J2.3 |
| MW-2 | 09/23/11 | NS | NS | NS | NS |
| MW-2 | 11/01/11 | NS | NS | NS | NS |
| MW-2 | 02/21/12 | NS | NS | NS | NS |
| MW-2 | 05/14/12 | 7.2 | 1.4 | 0.56 J | 2.7 J |
| MW-2 | 06/09/13 | 1.8 | <0.30 | <0.20 | <0.23 |
| MW-2 | 09/09/13 | 1.7 | <0.30 | <0.20 | <0.23 |
| MW-2 | 12/12/13 | 1.5 J | <0.38 | <0.20 | 0.80 J |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-2 | 04/02/14 | 540 | 36 | 230 | 1500 |
| MW-2 | 10/23/14 | 0.74 J | <0.70 | <0.50 | <1.6 |
| MW-2 | 05/29/15 | 0.63 J | <5.0 | <1.0 | 2.6 J |
| MW-2 | 11/23/15 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-2 | 04/16/16 | NS | NS | NS | NS |
| MW-2 | 10/12/16 | NS | NS | NS | NS |
| MW-2 | 06/09/17 | NS | NS | NS | NS |
| MW-2 | 11/12/17 | NS | NS | NS | NS |
| MW-2 | 05/16/18 | NS | NS | NS | NS |
| MW-2 | 10/26/18 | 2.5 | <1.0 | <1.0 | <10 |
| MW-2 | 05/22/19 | NS | NS | NS | NS |
| MW-2 | 11/12/19 | NS | NS | NS | NS |
| MW-2 | 05/17/20 | NS | NS | NS | NS |
| MW-2 | 11/13/20 | 42 | 1.3 | <1.0 | <10 |
| MW-2 | 05/18/21 | NS | NS | NS | NS |
| MW-2 | 11/15/21 | NS | NS | NS | NS |
| MW-2 | 05/20/22 | NS | NS | NS | NS |
| MW-2 | 11/05/22 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-01(MW-2)* | 11/05/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-2 | 05/19/23 | NS | NS | NS | NS |
| MW-2 | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-3 | 03/19/96 | 3660 | 5410 | 436 | 3730 |
| MW-3 | 12/17/96 | 3910 | 8210 | 530 | 5020 |
| MW-3 | 03/06/97 | 6670 | 12700 | 759 | 7020 |
| MW-3 | 06/22/01 | NS | NS | NS | NS |
| MW-3 | 09/04/01 | NS | NS | NS | NS |
| MW-3 | 03/04/02 | NS | NS | NS | NS |
| MW-3 | 06/03/02 | NS | NS | NS | NS |
| MW-3 | 09/10/02 | NS | NS | NS | NS |
| MW-3 | 12/12/02 | NS | NS | NS | NS |
| MW-3 | 03/14/03 | NS | NS | NS | NS |
| MW-3 | 06/18/03 | NS | NS | NS | NS |
| MW-3 | 09/16/03 | NS | NS | NS | NS |
| MW-3 | 12/17/03 | NS | NS | NS | NS |
| MW-3 | 03/16/04 | NS | NS | NS | NS |
| MW-3 | 06/22/04 | NS | NS | NS | NS |
| MW-3 | 09/22/04 | NS | NS | NS | NS |
| MW-3 | 12/21/04 | NS | NS | NS | NS |
| MW-3 | 03/23/05 | NS | NS | NS | NS |
| MW-3 | 06/23/05 | NS | NS | NS | NS |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-3 | 09/20/05 | NS | NS | NS | NS |
| MW-3 | 12/14/05 | NS | NS | NS | NS |
| MW-3 | 12/15/05 | NS | NS | NS | NS |
| MW-3 | 03/27/06 | NS | NS | NS | NS |
| MW-3 | 06/07/06 | NS | NS | NS | NS |
| MW-3 | 09/25/06 | NS | NS | NS | NS |
| MW-3 | 12/07/06 | NS | NS | NS | NS |
| MW-3 | 03/28/07 | NS | NS | NS | NS |
| MW-3 | 06/18/07 | NS | NS | NS | NS |
| MW-3 | 09/17/07 | NS | NS | NS | NS |
| MW-3 | 12/17/07 | NS | NS | NS | NS |
| MW-3 | 03/10/08 | NS | NS | NS | NS |
| MW-3 | 06/17/08 | NS | NS | NS | NS |
| MW-3 | 09/10/08 | NS | NS | NS | NS |
| MW-3 | 12/02/08 | NS | NS | NS | NS |
| MW-3 | 03/03/09 | NS | NS | NS | NS |
| MW-3 | 06/09/09 | 6100 | 8700 | 627 | 6630 |
| MW-3 | 08/28/09 | NS | NS | NS | NS |
| MW-3 | 11/04/09 | NS | NS | NS | NS |
| MW-3 | 02/11/10 | NS | NS | NS | NS |
| MW-3 | 06/07/10 | 7440 | 10800 | 578 | 7170 |
| MW-3 | 09/24/10 | NS | NS | NS | NS |
| MW-3 | 11/02/10 | NS | NS | NS | NS |
| MW-3 | 02/07/11 | NS | NS | NS | NS |
| MW-3 | 05/10/11 | 4180 | 4990 | 421 | 3780 |
| MW-3 | 09/23/11 | NS | NS | NS | NS |
| MW-3 | 11/01/11 | NS | NS | NS | NS |
| MW-3 | 02/21/12 | NS | NS | NS | NS |
| MW-3 | 05/14/12 | 8100 | 15800 | 1040 | 11100 |
| MW-3 | 06/09/13 | 5100 | 12000 | 870 | 11000 |
| MW-3 | 09/09/13 | NS | NS | NS | NS |
| MW-3 | 12/12/13 | NS | NS | NS | NS |
| MW-3 | 04/02/14 | NS | NS | NS | NS |
| MW-3 | 10/23/14 | NS | NS | NS | NS |
| MW-3 | 05/29/15 | NS | NS | NS | NS |
| MW-3 | 11/23/15 | NS | NS | NS | NS |
| MW-3 | 04/16/16 | NS | NS | NS | NS |
| MW-3 | 10/12/16 | NS | NS | NS | NS |
| MW-3 | 06/09/17 | NS | NS | NS | NS |
| MW-3 | 11/12/17 | NS | NS | NS | NS |
| MW-3 | 05/16/18 | NS | NS | NS | NS |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-3 | 07/15/18 | NS | NS | NS | NS |
| MW-3 | 10/26/18 | NS | NS | NS | NS |
| MW-3 | 05/22/19 | NS | NS | NS | NS |
| MW-3 | 11/12/19 | NS | NS | NS | NS |
| MW-3 | 05/17/20 | NS | NS | NS | NS |
| MW-3 | 11/13/20 | NS | NS | NS | NS |
| MW-3 | 05/18/21 | NS | NS | NS | NS |
| MW-3 | 11/15/21 | NS | NS | NS | NS |
| MW-3 | 05/20/22 | NS | NS | NS | NS |
| MW-3 | 11/05/22 | NS | NS | NS | NS |
| MW-3 | 05/19/23 | NS | NS | NS | NS |
| MW-3 | 11/11/23 | 370 | <5.0 | <5.0 | <50 |
| | | | | | |
| MW-4 | 12/07/06 | NS | NS | NS | NS |
| MW-4 | 03/28/07 | NS | NS | NS | NS |
| MW-4 | 06/19/07 | <1 | <1 | <1 | <2 |
| MW-4 | 09/17/07 | NS | NS | NS | NS |
| MW-4 | 12/17/07 | NS | NS | NS | NS |
| MW-4 | 03/10/08 | NS | NS | NS | NS |
| MW-4 | 06/17/08 | <1 | <1 | <1 | <2 |
| MW-4 | 09/10/08 | NS | NS | NS | NS |
| MW-4 | 12/02/08 | NS | NS | NS | NS |
| MW-4 | 03/03/09 | NS | NS | NS | NS |
| MW-4 | 06/09/09 | <1 | 0.47 J | <1 | 0.77 J |
| MW-4 | 08/28/09 | NS | NS | NS | NS |
| MW-4 | 11/04/09 | NS | NS | NS | NS |
| MW-4 | 02/11/10 | NS | NS | NS | NS |
| MW-4 | 06/07/10 | <2 | <2 | <2 | <6 |
| MW-4 | 09/24/10 | NS | NS | NS | NS |
| MW-4 | 11/02/10 | NS | NS | NS | NS |
| MW-4 | 02/07/11 | NS | NS | NS | NS |
| MW-4 | 05/10/11 | <1 | <1 | <1 | <3 |
| MW-4 | 09/23/11 | NS | NS | NS | NS |
| MW-4 | 11/01/11 | NS | NS | NS | NS |
| MW-4 | 02/21/12 | NS | NS | NS | NS |
| MW-4 | 05/14/12 | 0.41 J | 0.36 J | 0.33 J | <1 |
| MW-4 | 06/09/13 | <0.14 | <0.30 | <0.20 | <0.23 |
| MW-4 | 09/09/13 | <0.14 | <0.30 | <0.20 | <0.23 |
| MW-4 | 12/12/13 | <0.20 | <0.38 | <0.20 | <0.65 |
| MW-4 | 04/02/14 | <0.20 | <0.38 | <0.20 | <0.65 |
| MW-4 | 10/23/14 | <0.38 | <0.70 | <0.50 | <1.6 |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-4 | 05/29/15 | <1.0 | 1.3 J | <1.0 | <5.0 |
| MW-4 | 11/23/15 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-4 | 04/16/16 | NS | NS | NS | NS |
| MW-4 | 10/12/16 | NS | NS | NS | NS |
| MW-4 | 06/09/17 | NS | NS | NS | NS |
| MW-4 | 11/12/17 | NS | NS | NS | NS |
| MW-4 | 05/16/18 | NS | NS | NS | NS |
| MW-4 | 10/26/18 | <1.0 | <1.0 | <1.0 | <10 |
| MW-4 | 05/22/19 | NS | NS | NS | NS |
| MW-4 | 11/12/19 | NS | NS | NS | NS |
| MW-4 | 05/17/20 | NS | NS | NS | NS |
| MW-4 | 11/13/20 | <1.0 | <1.0 | <1.0 | <10 |
| MW-4 | 05/18/21 | NS | NS | NS | NS |
| MW-4 | 11/15/21 | NS | NS | NS | NS |
| MW-4 | 05/20/22 | NS | NS | NS | NS |
| MW-4 | 05/19/23 | NS | NS | NS | NS |
| MW-4 | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| TMW-5 | 12/07/06 | NS | NS | NS | NS |
| TMW-5 | 03/28/07 | NS | NS | NS | NS |
| TMW-5 | 06/19/07 | 2730 | 7.6 | 680 | 1160 |
| TMW-5 | 09/17/07 | NS | NS | NS | NS |
| TMW-5 | 12/17/07 | NS | NS | NS | NS |
| TMW-5 | 03/10/08 | NS | NS | NS | NS |
| TMW-5 | 06/17/08 | 3190 | 217 | 651 | 1220 |
| TMW-5 | 09/10/08 | NS | NS | NS | NS |
| TMW-5 | 12/02/08 | NS | NS | NS | NS |
| TMW-5 | 03/03/09 | NS | NS | NS | NS |
| TMW-5 | 06/09/09 | 1540 | 285 | 568 | 784 |
| TMW-5 | 08/28/09 | NS | NS | NS | NS |
| TMW-5 | 11/04/09 | NS | NS | NS | NS |
| TMW-5 | 02/11/10 | NS | NS | NS | NS |
| TMW-5 | 06/07/10 | 1970 | 207 | 591 | 746 |
| TMW-5 | 09/24/10 | NS | NS | NS | NS |
| TMW-5 | 11/02/10 | NS | NS | NS | NS |
| TMW-5 | 02/07/11 | NS | NS | NS | NS |
| TMW-5 | 05/10/11 | 3730 | 124 | 459 | 221 |
| TMW-5 | 09/23/11 | NS | NS | NS | NS |
| TMW-5 | 11/01/11 | NS | NS | NS | NS |
| TMW-5 | 02/21/12 | NS | NS | NS | NS |
| TMW-5 | 05/14/12 | 6180 | 52.6 | 614 | 243 |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| TMW-5 | 06/09/13 | 6400 | 210 | 400 | 180 |
| TMW-5 | 09/09/13 | 5600 | 26 | 470 | 100 |
| TMW-5 | 12/12/13 | 3900 | 29 J | 400 | 120 |
| TMW-5 | 04/02/14 | 4900 | 770 | 510 | 630 |
| TMW-5 | Well abandoned 8/11/2014 | | | | |
| | | | | | |
| MW-6 | 12/12/13 | NS | NS | NS | NS |
| MW-6 | 04/02/14 | NS | NS | NS | NS |
| MW-6 | 10/23/14 | 230 | 3.3 | 420 | 120 |
| MW-6 | 05/29/15 | 130 | 4.8 J | 210 | 86 |
| MW-6 | 11/23/15 | 330 | 21 | 260 | 84 |
| MW-6 | 04/16/16 | 49 | 52 | 140 | 40 |
| MW-6 | 10/12/16 | 77 | 25 | 17 | <5.0 |
| MW-6 | 06/09/17 | 36 | <5.0 | <1.0 | 15 |
| MW-6 | 11/12/17 | 66 | 20 | 9.5 | 83 |
| MW-6 | 05/16/18 | 17 | 2.8 | <1.0 | <10 |
| MW-6 | 10/26/18 | 110 | 1.9 | 4.0 | 26 |
| MW-6 | 05/22/19 | 33 | <1.0 | <1.0 | <10 |
| MW-6 | 11/12/19 | 15 | <1.0 | <1.0 | <2.0 |
| DUP-01(MW-6)* | 11/12/19 | 15 | <1.0 | <1.0 | <2.0 |
| MW-6 | 05/17/20 | 7.8 | <1.0 | <1.0 | <10 |
| MW-6 | 11/13/20 | 8.9 | <1.0 | <1.0 | <10 |
| MW-6 | 05/18/21 | 4.2 | <0.41 | <0.50 | <1.6 |
| MW-6 | 11/15/21 | 1.5 | <1.0 | <1.0 | <10 |
| DUP-01(MW-6)* | 11/15/21 | 1.3 | <1.0 | <1.0 | <10 |
| MW-6 | 05/20/22 | 1.7 | <1.0 | <1.0 | <10 |
| MW-6 | 11/05/22 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-01(MW-6)* | 11/05/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-6 | 05/19/23 | <1.0 | <1.0 | <1.0 | <10 |
| MW-6 | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-02(MW-6)* | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-7 | 12/12/13 | 120 | 110 | 49 J | 490 |
| MW-7 | 04/02/14 | 3.5 | 3.6 | 4 | <0.65 |
| MW-7 | 10/23/14 | 4.6 | <0.70 | 2.8 | <1.6 |
| MW-7 | 05/29/15 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-7 | 11/23/15 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-7 | 04/16/16 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-7 | 10/12/16 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-7 | 06/09/17 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-7 | 11/12/17 | <1.0 | <1.0 | <1.0 | <10 |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-7 | 05/16/18 | NS | NS | NS | NS |
| MW-7 | 07/15/18 | NS | NS | NS | NS |
| MW-7 | 10/26/18 | NS | NS | NS | NS |
| MW-7 | 05/22/19 | NS | NS | NS | NS |
| MW-7 | 11/12/19 | NS | NS | NS | NS |
| MW-7 | 05/17/20 | NS | NS | NS | NS |
| MW-7 | 11/13/20 | NS | NS | NS | NS |
| MW-7 | 05/18/21 | NS | NS | NS | NS |
| MW-7 | 11/15/21 | NS | NS | NS | NS |
| MW-7 | 05/20/22 | NS | NS | NS | NS |
| MW-7 | 11/05/22 | NS | NS | NS | NS |
| MW-7 | 05/19/23 | NS | NS | NS | NS |
| MW-7 | 11/11/23 | NS | NS | NS | NS |
| | | | | | |
| MW-8 | 12/12/13 | NS | NS | NS | NS |
| MW-8 | 04/02/14 | NS | NS | NS | NS |
| MW-8 | 10/23/14 | NS | NS | NS | NS |
| MW-8 | 05/29/15 | NS | NS | NS | NS |
| MW-8 | 11/23/15 | NS | NS | NS | NS |
| MW-8 | 04/16/16 | NS | NS | NS | NS |
| MW-8 | 10/12/16 | NS | NS | NS | NS |
| MW-8 | 06/09/17 | NS | NS | NS | NS |
| MW-8 | 11/12/17 | NS | NS | NS | NS |
| MW-8 | 05/16/18 | NS | NS | NS | NS |
| MW-8 | 07/15/18 | NS | NS | NS | NS |
| MW-8 | 10/26/18 | NS | NS | NS | NS |
| MW-8 | 05/22/19 | NS | NS | NS | NS |
| MW-8 | 11/12/19 | NS | NS | NS | NS |
| MW-8 | 05/17/20 | NS | NS | NS | NS |
| MW-8 | 11/13/20 | NS | NS | NS | NS |
| MW-8 | 05/18/21 | NS | NS | NS | NS |
| MW-8 | 11/15/21 | NS | NS | NS | NS |
| MW-8 | 05/20/22 | NS | NS | NS | NS |
| MW-8 | 11/05/22 | NS | NS | NS | NS |
| MW-8 | 05/19/23 | NS | NS | NS | NS |
| MW-8 | 11/11/23 | NS | NS | NS | NS |
| | | | | | |
| MW-9 | 12/12/13 | 180 | 310 | 46 | 430 |
| MW-9 | 04/02/14 | 230 | 27 | 140 | 810 |
| MW-9 | 10/23/14 | 10 | 1.6 | 9.4 | 2.9 J |
| MW-9 | 05/29/15 | 15 | 8.4 J | 6 | 21 |
| MW-9 | 11/23/15 | 9 | 2.8 | <1.0 | <3.0 |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-9 | 04/16/16 | 29 | 24 | 4.3 | 8.3 |
| MW-9 | 10/12/16 | 1 | 8.7 | <1.0 | <5.0 |
| MW-9 | 06/09/17 | 29 | 11 | <1.0 | 5.4 |
| MW-9 | 11/12/17 | 130 | 42 | 2.1 | 10 |
| MW-9 | 05/16/18 | 1400 | 250 | 20 | 130 |
| MW-9 | 10/26/18 | 600 | 130 | 9.5 | 67 |
| MW-9 | 05/22/19 | 1800 | 120 | 38 | 240 |
| MW-9 | 11/12/19 | 29 | 1.3 | <1.0 | 3.0 |
| MW-9 | 05/17/20 | 3300 | 110 | 70 | 450.0 |
| MW-9 | 11/13/20 | 240 | <2.0 | 6.1 | 35.0 |
| MW-9 | 05/18/21 | 15 | <0.41 | <0.50 | 1.7 J |
| MW-9 | 11/15/21 | 8.9 | <1.0 | <1.0 | <10 |
| MW-9 | 05/20/22 | 56 | 1.7 | 1.1 | <10 |
| MW-9 | 05/19/23 | 85 | 6.5 | 2.2 | 13 |
| MW-9 | 11/11/23 | 56 | <1.0 | 1.3 | <10 |
| | | | | | |
| MW-10 | 12/12/13 | 1200 | 3500 | 300 | 3200 |
| MW-10 | 04/02/14 | 4.3 | 7 | <0.20 | 13 |
| MW-10 | 10/23/14 | 93 | 1.3 | 87 | 50 |
| MW-10 | 05/29/15 | 130 | 8.5 | 31 | 13 |
| MW-10 | 11/23/15 | 120 | 20 | 8.8 | 11 |
| MW-10 | 04/16/16 | NS | NS | NS | NS |
| MW-10 | 10/12/16 | NS | NS | NS | NS |
| MW-10 | 06/09/17 | NS | NS | NS | NS |
| MW-10 | 11/12/17 | NS | NS | NS | NS |
| MW-10 | 05/16/18 | NS | NS | NS | NS |
| MW-10 | 10/26/18 | 210 | 13 | 2.2 | <10 |
| MW-10 | 05/22/19 | NS | NS | NS | NS |
| MW-10 | 11/12/19 | NS | NS | NS | NS |
| MW-10 | 05/17/20 | NS | NS | NS | NS |
| MW-10 | 11/13/20 | 2700 | <20 | 53 | <200 |
| MW-10 | 05/18/21 | NS | NS | NS | NS |
| MW-10 | 11/15/21 | NS | NS | NS | NS |
| MW-10 | 05/20/22 | NS | NS | NS | NS |
| MW-10 | 11/05/22 | 36 | <1.0 | <1.0 | <10 |
| MW-10 | 05/19/23 | NS | NS | NS | NS |
| MW-10 | 11/11/23 | 1500 | 9.9 | 26 | 71 |
| | | | | | |
| MW-11 | 12/12/13 | NS | NS | NS | NS |
| MW-11 | 04/02/14 | NS | NS | NS | NS |
| MW-11 | 10/23/14 | NS | NS | NS | NS |
| MW-11 | 05/29/15 | NS | NS | NS | NS |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-11 | 11/23/15 | NS | NS | NS | NS |
| MW-11 | 04/16/16 | NS | NS | NS | NS |
| MW-11 | 10/12/16 | NS | NS | NS | NS |
| MW-11 | 06/09/17 | NS | NS | NS | NS |
| MW-11 | 11/12/17 | NS | NS | NS | NS |
| MW-11 | 05/16/18 | NS | NS | NS | NS |
| MW-11 | 07/15/18 | NS | NS | NS | NS |
| MW-11 | 10/26/18 | NS | NS | NS | NS |
| MW-11 | 05/22/19 | NS | NS | NS | NS |
| MW-11 | 11/12/19 | NS | NS | NS | NS |
| MW-11 | 05/17/20 | NS | NS | NS | NS |
| MW-11 | 11/13/20 | NS | NS | NS | NS |
| MW-11 | 05/18/21 | NS | NS | NS | NS |
| MW-11 | 11/15/21 | NS | NS | NS | NS |
| MW-11 | 05/20/22 | NS | NS | NS | NS |
| MW-11 | 11/05/22 | 290 | 240 | 280 | 330 |
| MW-11 | 05/19/23 | NS | NS | NS | NS |
| MW-11 | 11/11/23 | 19 | 9.0 | 73 | 27 |
| | | | | | |
| MW-12 | 12/12/13 | <0.14 | <0.30 | <0.20 | 0.39 J |
| MW-12 | 04/02/14 | <0.20 | 0.54 J | <0.20 | <0.65 |
| MW-12 | 10/23/14 | 0.71 J | <0.70 | 0.59 J | <1.6 |
| MW-12 | 05/29/15 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-12 | 11/23/15 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-12 | 04/16/16 | NS | NS | NS | NS |
| MW-12 | 10/12/16 | NS | NS | NS | NS |
| MW-12 | 06/09/17 | NS | NS | NS | NS |
| MW-12 | 11/12/17 | NS | NS | NS | NS |
| MW-12 | 05/16/18 | NS | NS | NS | NS |
| MW-12 | 10/26/18 | <1.0 | <1.0 | <1.0 | <10 |
| MW-12 | 05/22/19 | NS | NS | NS | NS |
| MW-12 | 11/12/19 | NS | NS | NS | NS |
| MW-12 | 05/17/20 | NS | NS | NS | NS |
| MW-12 | 11/13/20 | <1.0 | <1.0 | <1.0 | <10 |
| MW-12 | 05/18/21 | NS | NS | NS | NS |
| MW-12 | 11/15/21 | NS | NS | NS | NS |
| MW-12 | 05/20/22 | NS | NS | NS | NS |
| MW-12 | 05/19/23 | NS | NS | NS | NS |
| MW-12 | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-13 | 10/23/14 | 710 | 2 | 7.8 | 21 |
| MW-13 | 05/29/15 | 6.1 | <5.0 | 0.81 J | 2.4 J |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-13 | 11/23/15 | 3.7 | <1.0 | <1.0 | <3.0 |
| MW-13 | 04/16/16 | 1.6 | <5.0 | <1.0 | <5.0 |
| MW-13 | 10/12/16 | 1.8 | <5.0 | <1.0 | <5.0 |
| MW-13 | 06/09/17 | 3.4 | <5.0 | <1.0 | <5.0 |
| MW-13 | 11/12/17 | <1.0 | <1.0 | <1.0 | <10 |
| MW-13 | 05/16/18 | 43 | <1.0 | <1.0 | <10 |
| MW-13 | 10/26/18 | 11 | <1.0 | <1.0 | <10 |
| MW-13 | 05/22/19 | 24 | <1.0 | <1.0 | <10 |
| MW-13 | 11/12/19 | <1.0 | <1.0 | <1.0 | <2.0 |
| MW-13 | 05/17/20 | 360 | <2.0 | 3.6 | <20 |
| MW-13 | 11/13/20 | 11 | <1.0 | <1.0 | <10 |
| MW-13 | 05/18/21 | 560 | <0.82 | 5.9 | 16 J |
| MW-13 | 11/15/21 | 1.6 | <1.0 | <1.0 | <10 |
| MW-13 | 05/20/22 | 10 | <1.0 | <1.0 | <10 |
| MW-13 | 11/05/22 | 2.1 | <1.0 | <1.0 | <10 |
| MW-13 | 05/19/23 | 2.8 | <1.0 | <1.0 | <10 |
| MW-13 | 11/11/23 | 7.3 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-14 | 10/23/14 | <0.38 | <0.70 | <0.50 | <1.6 |
| MW-14 | 05/29/15 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-14 | 11/23/15 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-14 | 04/16/16 | NS | NS | NS | NS |
| MW-14 | 10/12/16 | NS | NS | NS | NS |
| MW-14 | 06/09/17 | NS | NS | NS | NS |
| MW-14 | 11/12/17 | NS | NS | NS | NS |
| MW-14 | 05/16/18 | NS | NS | NS | NS |
| MW-14 | 10/26/18 | 9.4 | <1.0 | <1.0 | <10 |
| MW-14 | 05/22/19 | NS | NS | NS | NS |
| MW-14 | 11/12/19 | NS | NS | NS | NS |
| MW-14 | 05/17/20 | 41 | <1.0 | <1.0 | <10 |
| MW-14 | 11/13/20 | 12 | <1.0 | <1.0 | <10 |
| MW-14 | 05/18/21 | NS | NS | NS | NS |
| MW-14 | 11/15/21 | NS | NS | NS | NS |
| MW-14 | 05/20/22 | NS | NS | NS | NS |
| MW-14 | 05/19/23 | NS | NS | NS | NS |
| MW-14 | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-15 | 10/23/14 | 61 | 1 | 18 | 120 |
| MW-15 | 05/29/15 | 3200 | 1500 | 410 | 1700 |
| MW-15 | 11/23/15 | 180 | 19 | 19 | 24 |
| MW-15 | 04/16/16 | 5.8 | 9.5 | <1.0 | 8.5 |
| MW-15 | 10/12/16 | 8.3 | 7.6 | <1.0 | 6.2 |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-15 | 06/09/17 | 19 | <5.0 | 3 | 15 |
| MW-15 | 11/12/17 | 1100 | 180 | 71 | 290 |
| MW-15 | 05/16/18 | 980 | 190 | 32 | 190 |
| MW-15 | 10/26/18 | 140 | 33 | 3.5 | 23 |
| DUP-01(MW-15)* | 10/26/18 | 150 | 32 | 3.0 | 21 |
| MW-15 | 05/22/19 | 25 | 4.3 | <1.0 | <10 |
| MW-15 | 11/12/19 | 210 | 26 | 8.9 | 70 |
| MW-15 | 05/17/20 | 99 | 9.7 | 1.9 | 18 |
| MW-15 | 11/13/20 | 20 | <1.0 | <1.0 | <10 |
| MW-15 | 05/18/21 | 42 | 1.2 | 0.83 J | 6.9 J |
| MW-15 | 11/15/21 | 120 | 12 | 3.7 | 30 |
| MW-15 | 05/20/22 | 1.9 | <1.0 | <1.0 | <10 |
| MW-15 | 11/05/22 | 21 | <1.0 | <1.0 | <10 |
| MW-15 | 05/19/23 | 1.6 | <1.0 | <1.0 | <10 |
| MW-15 | 11/11/23 | 2100 | <20 | 72 | 480 |
| | | | | | |
| MW-16 | 10/23/14 | 0.93 J | <0.70 | <0.50 | 3.4 J |
| MW-16 | 05/29/15 | 54 | 15 | 22 | 24 |
| MW-16 | 11/23/15 | 4.2 | 1.1 | 2.3 | <3.0 |
| MW-16 | 04/16/16 | 590 | 120 | 140 | 430 |
| MW-16 | 10/12/16 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-16 | 06/09/17 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-16 | 11/12/17 | 29 | 2.3 | 2.8 | 14 |
| MW-16 | 05/16/18 | 36 | 15 | 1.8 | 16 |
| DUP-01(MW-16)* | 05/16/18 | 30 | 11 | 1.2 | 11 |
| MW-16 | 10/26/18 | 9.2 | <1.0 | <1.0 | <10 |
| MW-16 | 05/22/19 | 12 | <1.0 | <1.0 | <10 |
| MW-16 | 11/12/19 | 9.7 | <1.0 | <1.0 | <2.0 |
| MW-16 | 05/17/20 | 12 | <1.0 | <1.0 | <10 |
| MW-16 | 11/13/20 | 2.7 | <1.0 | <1.0 | <10 |
| MW-16 | 05/18/21 | 5.3 | <0.41 | <0.50 | <1.6 |
| MW-16 | 11/15/21 | 150 | <1.0 | 5.4 | <10 |
| MW-16 | 05/20/22 | 2.4 | <1.0 | <1.0 | <10 |
| MW-16 | 05/19/23 | 12 | <1.0 | <1.0 | <10 |
| MW-16 | 11/11/23 | 1200 | <10 | 49 | <100 |
| | | | | | |
| MW-17 | 10/23/14 | 3 | <0.70 | 1.5 | 4.6 J |
| MW-17 | 05/29/15 | 6.7 | 0.98 J | 3.4 | 16 |
| MW-17 | 11/23/15 | 14 | <1.0 | 5.9 | 12 |
| MW-17 | 04/16/16 | NS | NS | NS | NS |
| MW-17 | 10/12/16 | NS | NS | NS | NS |
| MW-17 | 06/09/17 | NS | NS | NS | NS |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-17 | 11/12/17 | NS | NS | NS | NS |
| MW-17 | 05/16/18 | NS | NS | NS | NS |
| MW-17 | 10/26/18 | 13 | <1.0 | 2.6 | <10 |
| MW-17 | 05/22/19 | NS | NS | NS | NS |
| MW-17 | 11/12/19 | NS | NS | NS | NS |
| MW-17 | 05/17/20 | 2.7 | <1.0 | <1.0 | <10 |
| MW-17 | 11/13/20 | <1.0 | <1.0 | <1.0 | <10 |
| MW-17 | 05/18/21 | <0.38 | <0.41 | <0.50 | <1.6 |
| MW-17 | 11/15/21 | <1.0 | <1.0 | <1.0 | <10 |
| MW-17 | 05/20/22 | 1.1 | <1.0 | <1.0 | <10 |
| MW-17 | 11/05/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-17 | 05/19/23 | 6.3 | <1.0 | 1.1 | <10 |
| MW-17 | 11/11/23 | 690 | <10 | 180 | 1000 |
| | | | | | |
| MW-18 | 10/23/14 | 6.5 | 3.2 | <0.50 | 11 |
| MW-18 | 05/29/15 | 12 | 7.2 | 2.8 | 16 |
| MW-18 | 11/23/15 | 18 | 10 | 3.6 | 24 |
| MW-18 | 04/16/16 | 2.4 | <5.0 | 1.1 | 7.5 |
| MW-18 | 10/12/16 | 1.4 | <5.0 | <1.0 | <5.0 |
| MW-18 | 06/09/17 | 8.7 | <5.0 | 3.5 | 24 |
| MW-18 | 11/12/17 | <1.0 | <1.0 | <1.0 | <10 |
| MW-18 | 05/16/18 | 8.9 | <1.0 | 2.4 | 17 |
| MW-18 | 10/26/18 | 32 | 5.5 | 9.8 | 75 |
| MW-18 | 05/22/19 | 9.1 | <1.0 | 3.1 | 21 |
| MW-18 | 11/12/19 | 24 | <1.0 | 8.8 | 64 |
| MW-18 | 05/17/20 | 160 | <2.0 | 56 | 420 |
| DUP-01(MW-18)* | 05/17/20 | 17 | <1.0 | 6.7 | 51 |
| MW-18 | 11/13/20 | 3.2 | <1.0 | 1.3 | <10 |
| MW-18 | 05/18/21 | 3.7 | <0.41 | 1.0 | 7.0 J |
| DUP-01(MW-18)* | 05/18/21 | 7.4 | <0.41 | 2.2 | 15 |
| MW-18 | 11/15/21 | 4.7 | <1.0 | 1.6 | 11 |
| MW-18 | 05/20/22 | 7.9 | <1.0 | 1.6 | 11 |
| DUP-01(MW-18)* | 05/20/22 | 2.9 | <1.0 | <1.0 | <10 |
| MW-18 | 11/05/22 | 3.5 | <1.0 | 1.0 | <10 |
| MW-18 | 05/19/23 | 7.5 | <1.0 | 1.5 | 10 |
| MW-18 | 11/11/23 | 16 | <1.0 | 4.0 | 26 |
| | | | | | |
| MW-19 | 10/23/14 | 22 | 6 | 1.7 | 20 |
| MW-19 | 05/29/15 | 3.7 | <5.0 | 1.3 | 2.6 J |
| MW-19 | 11/23/15 | 67 | 18 | 15 | 40 |
| MW-19 | 04/16/16 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-19 | 10/12/16 | <1.0 | <5.0 | <1.0 | <5.0 |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-19 | 06/09/17 | 64 | 31 | 7.3 | 55 |
| MW-19 | 11/12/17 | 68 | 20 | 8.5 | 62 |
| MW-19 | 05/16/18 | 31 | 1.2 | 1.7 | 13 |
| MW-19 | 10/26/18 | 15 | <1.0 | 1 | <10 |
| MW-19 | 05/22/19 | 190 | <1.0 | 13 | 88 |
| MW-19 | 11/12/19 | 27 | <1.0 | 2.2 | 15 |
| MW-19 | 05/17/20 | 18 | <1.0 | 1.5 | 10 |
| MW-19 | 11/13/20 | 16 | <1.0 | 1.4 | <10 |
| DUP-02(MW-19)* | 11/13/20 | 29 | <1.0 | 2.8 | 18 |
| MW-19 | 05/18/21 | 46 | <0.41 | 3.4 | 24 |
| MW-19 | 11/15/21 | <1.0 | <1.0 | <1.0 | <10 |
| MW-19 | 05/20/22 | 10 | <1.0 | <1.0 | <10 |
| MW-19 | 11/05/22 | 8.6 | <1.0 | <1.0 | <10 |
| MW-19 | 05/19/23 | 21 | <1.0 | 1.5 | <10 |
| MW-19 | 11/11/23 | 75 | <1.0 | 4.4 | 41 |
| | | | | | |
| MW-20 | 10/23/14 | 28 | 2.7 | 2.6 | 42 |
| MW-20 | 05/29/15 | 28 | 3.7 J | 10 | 6.3 |
| MW-20 | 11/23/15 | 6.9 | <1.0 | 12 | <3.0 |
| MW-20 | 04/16/16 | <1.0 | <5.0 | <1.0 | <5.0 |
| MW-20 | 10/12/16 | NS | NS | NS | NS |
| MW-20 | 06/09/17 | 42 | 11 | 1.1 | 37 |
| MW-20 | 11/12/17 | 58 | 25 | 1.3 | 17 |
| MW-20 | 05/16/18 | 71 | 5.6 | 1.2 | 13 |
| MW-20 | 10/26/18 | 82 | 19 | 1.7 | 17 |
| MW-20 | 05/22/19 | 3.3 | <1.0 | <1.0 | <10 |
| DUP-01(MW-20)* | 05/22/19 | 16 | <1.0 | <1.0 | <10 |
| MW-20 | 11/12/19 | 170 | <1.0 | 3.2 | 28 |
| MW-20 | 05/17/20 | 19 | <1.0 | <1.0 | <10 |
| MW-20 | 11/13/20 | 210 | <1.0 | 3.6 | 35 |
| MW-20 | 05/18/21 | 250 | 7.6 | 2.7 | 34 |
| MW-20 | 11/15/21 | 9.3 | <1.0 | <1.0 | <10 |
| MW-20 | 05/20/22 | 120 | 2 | 2.6 | 23 |
| MW-20 | 11/05/22 | 43 | <1.0 | 2.3 | 11 |
| MW-20 | 05/19/23 | 110 | 1.0 | 2.3 | 20 |
| MW-20 | 11/11/23 | 420 | <5.0 | 15 | 110 |
| | | | | | |
| MW-21 | 05/17/20 | 6800 | 1200 | 220 | 2800 |
| MW-21 | 11/13/20 | NS | NS | NS | NS |
| MW-21 | 05/18/21 | NS | NS | NS | NS |
| MW-21 | 11/15/21 | NS | NS | NS | NS |
| MW-21 | 05/20/22 | NS | NS | NS | NS |

# TABLE 2 - GROUNDWATER ANALYTICAL RESULTS

| Johnston Federal #4 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-21 | 11/05/22 | NS | NS | NS | NS |
| MW-21 | 11/15/22 | NS | NS | NS | NS |
| MW-21 | 05/19/23 | NS | NS | NS | NS |
| MW-21 | 11/11/23 | NS | NS | NS | NS |
| | | | | | |
| MW-22 | 05/17/20 | NS | NS | NS | NS |
| MW-22 | 11/13/20 | NS | NS | NS | NS |
| MW-22 | 05/18/21 | NS | NS | NS | NS |
| MW-22 | 11/15/21 | NS | NS | NS | NS |
| MW-22 | 05/20/22 | NS | NS | NS | NS |
| MW-22 | 11/05/22 | NS | NS | NS | NS |
| MW-22 | 11/15/22 | NS | NS | NS | NS |
| MW-22 | 05/19/23 | 160 | <2.0 | 43 | 440 |
| MW-22 | 11/11/23 | 700 H | <20 H | 190 H | 2100 H |
| | | | | | |
| MW-23 | 05/17/20 | 3.3 | 4 | 1.7 | 15 |
| MW-23 | 11/13/20 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-01(MW-23)* | 11/13/20 | <1.0 | <1.0 | <1.0 | <10 |
| MW-23 | 05/18/21 | <0.38 | <0.41 | <0.50 | <1.6 |
| MW-23 | 11/15/21 | <1.0 | <1.0 | <1.0 | <10 |
| MW-23 | 05/20/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-23 | 11/05/22 | <1.0 | <1.0 | <1.0 | <10 |
| MW-23 | 05/19/23 | <1.0 | <1.0 | <1.0 | <10 |
| MW-23 | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-24 | 05/19/23 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-01(MW-24)* | 05/19/23 | <1.0 | <1.0 | <1.0 | <10 |
| MW-24 | 11/11/23 | 18 | <1.0 | 1.6 | <10 |
| DUP-01(MW-24)* | 11/11/23 | 46 | <1.0 | 3.7 | <10 |
| | | | | | |
| MW-25 | 11/05/22 | <1.0 | <1.0 | 8.7 | 31 |
| MW-25 | 05/19/23 | <1.0 | <1.0 | <1.0 | <10 |
| MW-25 | 11/11/23 | <1.0 | <1.0 | <1.0 | <10 |

Notes:
"NS" = Not sampled
"µg/L" = micrograms per liter
Results highlighted yellow exceed their respective New Mexico Water Quality Control Commission (NMWQCC) standards.
"J" = Result is less than the reporting limit but greater than or equal to the method detection limit and the result in an approximate value.
"<" = Analyte was not detected at the indicated reporting limit (some historic data were reported at the detection limit).
*Field Duplicate results presented immediately below primary sample result

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-1 | 08/08/95 | 6073.24 | NR | 50.08 | | 6023.16 |
| MW-1 | 01/04/96 | 6073.24 | NR | 50.23 | | 6023.01 |
| MW-1 | 12/17/96 | 6073.24 | 49.94 | 50.50 | 0.56 | 6023.16 |
| MW-1 | 03/06/97 | 6073.24 | 49.99 | 50.38 | 0.39 | 6023.15 |
| MW-1 | 06/22/01 | 6073.24 | 49.82 | 49.96 | 0.14 | 6023.39 |
| MW-1 | 09/04/01 | 6073.24 | 49.94 | 50.05 | 0.11 | 6023.27 |
| MW-1 | 03/04/02 | 6073.24 | 50.23 | 50.40 | 0.17 | 6022.97 |
| MW-1 | 06/03/02 | 6073.24 | 50.31 | 50.50 | 0.19 | 6022.88 |
| MW-1 | 09/10/02 | 6073.24 | 50.51 | 50.70 | 0.19 | 6022.68 |
| MW-1 | 12/12/02 | 6073.24 | 50.60 | 50.83 | 0.23 | 6022.58 |
| MW-1 | 03/14/03 | 6073.24 | 50.73 | 50.90 | 0.17 | 6022.47 |
| MW-1 | 06/18/03 | 6073.24 | 50.74 | 51.28 | 0.54 | 6022.37 |
| MW-1 | 09/16/03 | 6073.24 | 50.78 | 51.70 | 0.92 | 6022.23 |
| MW-1 | 12/17/03 | 6073.24 | 50.92 | 51.15 | 0.23 | 6022.26 |
| MW-1 | 03/16/04 | 6073.24 | 50.98 | 51.14 | 0.16 | 6022.22 |
| MW-1 | 06/22/04 | 6073.24 | 51.02 | 51.15 | 0.13 | 6022.19 |
| MW-1 | 09/22/04 | 6073.24 | 51.06 | 51.18 | 0.12 | 6022.15 |
| MW-1 | 12/21/04 | 6073.24 | 51.08 | 51.15 | 0.07 | 6022.14 |
| MW-1 | 03/23/05 | 6073.24 | ND | 51.13 | | 6022.11 |
| MW-1 | 06/23/05 | 6073.24 | ND | 51.09 | | 6022.15 |
| MW-1 | 09/20/05 | 6073.24 | ND | 51.12 | | 6022.12 |
| MW-1 | 12/14/05 | 6073.24 | ND | 51.02 | | 6022.22 |
| MW-1 | 12/15/05 | 6073.24 | ND | 51.02 | | 6022.22 |
| MW-1 | 03/27/06 | 6073.24 | ND | 51.86 | | 6021.38 |
| MW-1 | 06/07/06 | 6073.24 | ND | 50.92 | | 6022.32 |
| MW-1 | 09/25/06 | 6073.24 | ND | 51.09 | | 6022.15 |
| MW-1 | 12/07/06 | 6073.24 | ND | 51.06 | | 6022.18 |
| MW-1 | 03/28/07 | 6073.24 | ND | 50.85 | | 6022.39 |
| MW-1 | 06/18/07 | 6073.24 | ND | 50.90 | | 6022.34 |
| MW-1 | 09/17/07 | 6073.24 | ND | 51.04 | | 6022.20 |
| MW-1 | 12/17/07 | 6073.24 | ND | 51.05 | | 6022.19 |
| MW-1 | 03/10/08 | 6073.24 | ND | 50.93 | | 6022.31 |
| MW-1 | 06/17/08 | 6073.24 | ND | 50.14 | | 6023.10 |
| MW-1 | 09/10/08 | 6073.24 | ND | 49.81 | | 6023.43 |
| MW-1 | 12/02/08 | 6073.24 | ND | 49.66 | | 6023.58 |
| MW-1 | 03/03/09 | 6073.24 | ND | 49.60 | | 6023.64 |
| MW-1 | 06/09/09 | 6073.24 | ND | 49.61 | | 6023.63 |
| MW-1 | 08/28/09 | 6073.24 | ND | 49.71 | | 6023.53 |
| MW-1 | 11/04/09 | 6073.24 | ND | 49.83 | | 6023.41 |
| MW-1 | 02/11/10 | 6073.24 | ND | 49.93 | | 6023.31 |
| MW-1 | 06/07/10 | 6073.24 | ND | 50.12 | | 6023.12 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-1 | 09/24/10 | 6073.24 | ND | 50.33 | | 6022.91 |
| MW-1 | 11/02/10 | 6073.24 | ND | 50.40 | | 6022.84 |
| MW-1 | 02/07/11 | 6073.24 | ND | 50.53 | | 6022.71 |
| MW-1 | 05/10/11 | 6073.24 | ND | 50.69 | | 6022.55 |
| MW-1 | 09/23/11 | 6073.24 | ND | 50.93 | | 6022.31 |
| MW-1 | 11/01/11 | 6073.24 | ND | 50.99 | | 6022.25 |
| MW-1 | 02/21/12 | 6073.24 | ND | 51.15 | | 6022.09 |
| MW-1 | 05/14/12 | 6073.24 | ND | 51.24 | | 6022.00 |
| MW-1 | 06/09/13 | 6073.24 | 51.61 | 51.68 | 0.07 | 6021.61 |
| MW-1 | 09/09/13 | 6073.24 | 51.78 | 51.84 | 0.06 | 6021.45 |
| MW-1 | 12/12/13 | 6073.24 | 51.80 | 51.85 | 0.05 | 6021.43 |
| MW-1 | 04/02/14 | 6073.24 | ND | 51.81 | | 6021.43 |
| MW-1 | 10/23/14 | 6073.24 | 51.95 | 52.04 | 0.09 | 6021.27 |
| MW-1 | 05/29/15 | 6073.24 | ND | 52.02 | | 6021.22 |
| MW-1 | 11/23/15 | 6073.24 | 51.76 | 51.76 | <0.01 | 6021.48 |
| MW-1 | 04/16/16 | 6073.24 | 51.61 | 51.68 | 0.07 | 6021.61 |
| MW-1 | 10/12/16 | 6073.24 | 51.71 | 51.73 | 0.02 | 6021.53 |
| MW-1 | 06/09/17 | 6073.24 | 51.76 | 51.78 | 0.02 | 6021.48 |
| MW-1 | 07/15/17 | 6073.24 | 51.85 | 51.87 | 0.02 | 6021.39 |
| MW-1 | 11/12/17 | 6073.24 | 51.85 | 51.86 | 0.01 | 6021.39 |
| MW-1 | 05/16/18 | 6073.24 | 51.83 | 51.97 | 0.14 | 6021.38 |
| MW-1 | 07/15/18 | 6073.24 | 51.64 | 51.75 | 0.11 | 6021.57 |
| MW-1 | 10/26/18 | 6073.24 | 51.77 | 51.77 | <0.01 | 6021.47 |
| MW-1 | 05/22/19 | 6073.24 | 51.85 | 51.96 | 0.11 | 6021.36 |
| MW-1 | 11/12/19 | 6073.24 | 51.93 | 51.95 | 0.02 | 6021.31 |
| MW-1 | 05/17/20 | 6073.24 | 52.03 | 52.05 | 0.02 | 6021.21 |
| MW-1 | 08/19/20 | 6073.24 | 52.10 | 52.11 | 0.01 | 6021.14 |
| MW-1 | 11/13/20 | 6073.24 | 52.14 | 52.15 | 0.01 | 6021.10 |
| MW-1 | 03/18/21 | 6073.24 | ND | 52.21 | | 6021.03 |
| MW-1 | 05/18/21 | 6073.24 | 52.23 | 52.24 | 0.01 | 6021.01 |
| MW-1 | 08/22/21 | 6073.24 | ND | 52.23 | | 6021.01 |
| MW-1 | 11/15/21 | 6073.24 | ND | 52.30 | | 6020.94 |
| MW-1 | 03/23/22 | 6073.24 | ND | 52.36 | | 6020.88 |
| MW-1 | 05/20/22 | 6073.24 | ND | 52.33 | | 6020.91 |
| MW-1 | 07/31/22 | 6073.24 | 52.36 | 52.37 | | 6020.88 |
| MW-1 | 11/05/22 | 6073.24 | 52.05 | 52.06 | 0.01 | 6021.19 |
| MW-1 | 03/28/23 | 6073.24 | ND | 51.88 | 0.01 | 6021.36 |
| MW-1 | 05/19/23 | 6073.24 | ND | 51.85 | | 6021.39 |
| MW-1 | 08/30/23 | 6073.24 | ND | 51.77 | | 6021.47 |
| MW-1 | 11/11/23 | 6073.24 | ND | 51.80 | | 6021.44 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-2 | 01/04/96 | 6072.14 | NR | 48.71 | | 6023.43 |
| MW-2 | 12/17/96 | 6072.14 | NR | 48.84 | | 6023.30 |
| MW-2 | 03/06/97 | 6072.14 | NR | 48.94 | | 6023.20 |
| MW-2 | 06/22/01 | 6072.14 | NR | 48.62 | | 6023.52 |
| MW-2 | 09/04/01 | 6072.14 | NR | 48.78 | | 6023.36 |
| MW-2 | 06/03/02 | 6072.14 | NR | 49.15 | | 6022.99 |
| MW-2 | 09/10/02 | 6072.14 | NR | 49.27 | | 6022.87 |
| MW-2 | 12/12/02 | 6072.14 | NR | 49.42 | | 6022.72 |
| MW-2 | 06/18/03 | 6072.14 | ND | 49.62 | | 6022.52 |
| MW-2 | 09/16/03 | 6072.14 | ND | 49.76 | | 6022.38 |
| MW-2 | 12/17/03 | 6072.14 | ND | 49.72 | | 6022.42 |
| MW-2 | 03/16/04 | 6072.14 | ND | 49.78 | | 6022.36 |
| MW-2 | 06/22/04 | 6072.14 | ND | 49.82 | | 6022.32 |
| MW-2 | 09/22/04 | 6072.14 | ND | 49.84 | | 6022.30 |
| MW-2 | 12/21/04 | 6072.14 | ND | 49.86 | | 6022.28 |
| MW-2 | 03/23/05 | 6072.14 | ND | 49.89 | | 6022.25 |
| MW-2 | 06/23/05 | 6072.14 | ND | 49.87 | | 6022.27 |
| MW-2 | 09/20/05 | 6072.14 | ND | 49.89 | | 6022.25 |
| MW-2 | 12/14/05 | 6072.14 | ND | 49.75 | | 6022.39 |
| MW-2 | 03/27/06 | 6072.14 | ND | 49.62 | | 6022.52 |
| MW-2 | 06/07/06 | 6072.14 | ND | 49.67 | | 6022.47 |
| MW-2 | 09/25/06 | 6072.14 | ND | 49.85 | | 6022.29 |
| MW-2 | 12/07/06 | 6072.14 | ND | 49.82 | | 6022.32 |
| MW-2 | 03/28/07 | 6072.14 | ND | 49.63 | | 6022.51 |
| MW-2 | 06/19/07 | 6072.14 | ND | 49.67 | | 6022.47 |
| MW-2 | 09/17/07 | 6072.14 | ND | 49.82 | | 6022.32 |
| MW-2 | 12/17/07 | 6072.14 | ND | 49.82 | | 6022.32 |
| MW-2 | 03/10/08 | 6072.14 | ND | 49.92 | | 6022.22 |
| MW-2 | 06/17/08 | 6072.14 | ND | 48.93 | | 6023.21 |
| MW-2 | 09/10/08 | 6072.14 | ND | 48.60 | | 6023.54 |
| MW-2 | 12/02/08 | 6072.14 | ND | 48.43 | | 6023.71 |
| MW-2 | 03/03/09 | 6072.14 | ND | 48.37 | | 6023.77 |
| MW-2 | 06/04/09 | 6072.14 | ND | 48.38 | | 6023.76 |
| MW-2 | 06/09/09 | 6072.14 | ND | 48.43 | | 6023.71 |
| MW-2 | 08/28/09 | 6072.14 | ND | 48.50 | | 6023.64 |
| MW-2 | 11/04/09 | 6072.14 | ND | 48.62 | | 6023.52 |
| MW-2 | 02/11/10 | 6072.14 | ND | 48.72 | | 6023.42 |
| MW-2 | 06/07/10 | 6072.14 | ND | 48.98 | | 6023.16 |
| MW-2 | 09/24/10 | 6072.14 | ND | 49.11 | | 6023.03 |
| MW-2 | 11/02/10 | 6072.14 | ND | 49.17 | | 6022.97 |
| MW-2 | 02/07/11 | 6072.14 | ND | 49.33 | | 6022.81 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-2 | 05/10/11 | 6072.14 | ND | 49.45 | | 6022.69 |
| MW-2 | 09/23/11 | 6072.14 | ND | 49.72 | | 6022.42 |
| MW-2 | 11/01/11 | 6072.14 | ND | 49.77 | | 6022.37 |
| MW-2 | 02/21/12 | 6072.14 | ND | 49.91 | | 6022.23 |
| MW-2 | 05/14/12 | 6072.14 | ND | 50.00 | | 6022.14 |
| MW-2 | 06/09/13 | 6072.14 | ND | 50.38 | | 6021.76 |
| MW-2 | 09/09/13 | 6072.14 | ND | 50.56 | | 6021.58 |
| MW-2 | 12/12/13 | 6072.14 | ND | 50.56 | | 6021.58 |
| MW-2 | 04/02/14 | 6072.14 | ND | 50.59 | | 6021.55 |
| MW-2 | 10/23/14 | 6072.14 | ND | 50.73 | | 6021.41 |
| MW-2 | 05/29/15 | 6072.14 | ND | 50.80 | | 6021.34 |
| MW-2 | 11/23/15 | 6072.14 | ND | 50.54 | | 6021.60 |
| MW-2 | 04/16/16 | 6072.14 | ND | 50.39 | | 6021.75 |
| MW-2 | 10/12/16 | 6072.14 | ND | 50.47 | | 6021.67 |
| MW-2 | 06/09/17 | 6072.14 | ND | 50.52 | | 6021.62 |
| MW-2 | 11/12/17 | 6072.14 | ND | 50.65 | | 6021.49 |
| MW-2 | 05/16/18 | 6072.14 | ND | 50.63 | | 6021.51 |
| MW-2 | 10/26/18 | 6072.14 | ND | 50.80 | | 6021.34 |
| MW-2 | 05/22/19 | 6072.14 | ND | 50.89 | | 6021.25 |
| MW-2 | 11/12/19 | 6072.14 | ND | 50.97 | | 6021.17 |
| MW-2 | 05/17/20 | 6072.14 | ND | 51.04 | | 6021.10 |
| MW-2 | 11/13/20 | 6072.14 | ND | 51.15 | | 6020.99 |
| MW-2 | 05/18/21 | 6072.14 | ND | 51.23 | | 6020.91 |
| MW-2 | 11/15/21 | 6072.14 | ND | 51.31 | | 6020.83 |
| MW-2 | 05/20/22 | 6072.14 | ND | 51.32 | | 6020.82 |
| MW-2 | 11/05/22 | 6072.14 | ND | 51.06 | | 6021.08 |
| MW-2 | 05/19/23 | 6072.14 | ND | 50.85 | | 6021.29 |
| MW-2 | 11/11/23 | 6072.14 | ND | 50.78 | | 6021.36 |
| | | | | | | |
| MW-3 | 03/19/96 | 6073.11 | NR | 49.81 | | 6023.30 |
| MW-3 | 12/17/96 | 6073.11 | NR | 49.84 | | 6023.27 |
| MW-3 | 03/06/97 | 6073.11 | 49.83 | 49.87 | 0.04 | 6023.27 |
| MW-3 | 06/22/01 | 6073.11 | 49.58 | 49.66 | 0.08 | 6023.51 |
| MW-3 | 09/04/01 | 6073.11 | 49.70 | 49.76 | 0.06 | 6023.40 |
| MW-3 | 03/04/02 | 6073.11 | 49.91 | 50.35 | 0.44 | 6023.09 |
| MW-3 | 06/03/02 | 6073.11 | 49.96 | 50.62 | 0.66 | 6022.99 |
| MW-3 | 09/10/02 | 6073.11 | 50.12 | 50.79 | 0.67 | 6022.82 |
| MW-3 | 12/12/02 | 6073.11 | 50.25 | 50.95 | 0.70 | 6022.69 |
| MW-3 | 03/14/03 | 6073.11 | 50.34 | 51.03 | 0.69 | 6022.60 |
| MW-3 | 06/18/03 | 6073.11 | 50.45 | 51.16 | 0.71 | 6022.48 |
| MW-3 | 09/16/03 | 6073.11 | 50.59 | 51.30 | 0.71 | 6022.35 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-3 | 12/17/03 | 6073.11 | 50.60 | 51.08 | 0.48 | 6022.39 |
| MW-3 | 03/16/04 | 6073.11 | 50.68 | 51.10 | 0.42 | 6022.33 |
| MW-3 | 06/22/04 | 6073.11 | 50.68 | 51.22 | 0.54 | 6022.30 |
| MW-3 | 09/22/04 | 6073.11 | 50.69 | 51.30 | 0.61 | 6022.27 |
| MW-3 | 12/21/04 | 6073.11 | 50.71 | 51.32 | 0.61 | 6022.25 |
| MW-3 | 03/23/05 | 6073.11 | 50.76 | 51.85 | 1.09 | 6022.08 |
| MW-3 | 06/23/05 | 6073.11 | 50.76 | 51.20 | 0.44 | 6022.24 |
| MW-3 | 09/20/05 | 6073.11 | ND | 51.43 | | 6021.68 |
| MW-3 | 12/14/05 | 6073.11 | ND | 51.31 | | 6021.80 |
| MW-3 | 12/15/05 | 6073.11 | 50.92 | 51.32 | 0.40 | 6022.09 |
| MW-3 | 03/27/06 | 6073.11 | 50.58 | 50.92 | 0.34 | 6022.45 |
| MW-3 | 06/07/06 | 6073.11 | 50.56 | 51.01 | 0.45 | 6022.44 |
| MW-3 | 09/25/06 | 6073.11 | 50.80 | 51.27 | 0.47 | 6022.19 |
| MW-3 | 12/07/06 | 6073.11 | 50.77 | 51.07 | 0.30 | 6022.27 |
| MW-3 | 03/28/07 | 6073.11 | 50.66 | 50.99 | 0.33 | 6022.37 |
| MW-3 | 06/18/07 | 6073.11 | 50.58 | 50.97 | 0.39 | 6022.43 |
| MW-3 | 09/17/07 | 6073.11 | 50.78 | 51.15 | 0.37 | 6022.24 |
| MW-3 | 12/17/07 | 6073.11 | 50.78 | 51.08 | 0.30 | 6022.26 |
| MW-3 | 03/10/08 | 6073.11 | 50.75 | 50.90 | 0.15 | 6022.32 |
| MW-3 | 06/17/08 | 6073.11 | 49.89 | 49.98 | 0.09 | 6023.20 |
| MW-3 | 09/10/08 | 6073.11 | ND | 49.77 | | 6023.34 |
| MW-3 | 12/02/08 | 6073.11 | ND | 49.58 | | 6023.53 |
| MW-3 | 03/03/09 | 6073.11 | ND | 49.55 | | 6023.56 |
| MW-3 | 06/09/09 | 6073.11 | ND | 49.39 | | 6023.72 |
| MW-3 | 08/28/09 | 6073.11 | ND | 49.65 | | 6023.46 |
| MW-3 | 11/04/09 | 6073.11 | ND | 49.63 | | 6023.48 |
| MW-3 | 02/11/10 | 6073.11 | ND | 49.83 | | 6023.28 |
| MW-3 | 06/07/10 | 6073.11 | 49.70 | 49.90 | 0.20 | 6023.36 |
| MW-3 | 09/24/10 | 6073.11 | ND | 50.19 | | 6022.92 |
| MW-3 | 11/02/10 | 6073.11 | ND | 50.26 | | 6022.85 |
| MW-3 | 02/07/11 | 6073.11 | ND | 50.40 | | 6022.71 |
| MW-3 | 05/10/11 | 6073.11 | ND | 50.46 | | 6022.65 |
| MW-3 | 09/23/11 | 6073.11 | ND | 50.73 | | 6022.38 |
| MW-3 | 11/01/11 | 6073.11 | ND | 50.82 | | 6022.29 |
| MW-3 | 02/21/12 | 6073.11 | 50.86 | 51.36 | 0.50 | 6022.13 |
| MW-3 | 05/14/12 | 6073.11 | 50.84 | 51.50 | 0.66 | 6022.11 |
| MW-3 | 06/09/13 | 6073.11 | 51.15 | 52.02 | 0.87 | 6021.74 |
| MW-3 | 09/09/13 | 6073.11 | 51.29 | 52.36 | 1.07 | 6021.55 |
| MW-3 | 12/12/13 | 6073.11 | 51.30 | 52.39 | 1.09 | 6021.54 |
| MW-3 | 04/02/14 | 6073.11 | 51.30 | 52.41 | 1.11 | 6021.53 |
| MW-3 | 10/23/14 | 6073.11 | 51.43 | 52.59 | 1.16 | 6021.39 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-3 | 05/29/15 | 6073.11 | 51.51 | 52.64 | 1.13 | 6021.32 |
| MW-3 | 11/23/15 | 6073.11 | 51.32 | 52.11 | 0.79 | 6021.59 |
| MW-3 | 04/16/16 | 6073.11 | 51.20 | 51.90 | 0.70 | 6021.74 |
| MW-3 | 10/12/16 | 6073.11 | ND | 51.42 | | 6021.69 |
| MW-3 | 11/30/16 | 6073.11 | 51.58 | 51.79 | 0.21 | 6021.48 |
| MW-3 | 06/09/17 | 6073.11 | 51.50 | 51.52 | 0.02 | 6021.61 |
| MW-3 | 07/15/17 | 6073.11 | ND | 51.77 | | 6021.34 |
| MW-3 | 11/12/17 | 6073.11 | 51.54 | 51.55 | 0.01 | 6021.57 |
| MW-3 | 05/16/18 | 6073.11 | 51.47 | 52.05 | 0.58 | 6021.50 |
| MW-3 | 07/15/18 | 6073.11 | ND | 51.77 | | 6021.34 |
| MW-3 | 10/26/18 | 6073.11 | 51.72 | 51.72 | <0.01 | 6021.39 |
| MW-3 | 05/22/19 | 6073.11 | 51.79 | 52.02 | 0.23 | 6021.26 |
| MW-3 | 11/12/19 | 6073.11 | 51.84 | 51.89 | 0.05 | 6021.26 |
| MW-3 | 05/17/20 | 6073.11 | 51.96 | 52.12 | 0.16 | 6021.11 |
| MW-3 | 08/19/20 | 6073.11 | 52.04 | 52.14 | 0.10 | 6021.05 |
| MW-3 | 11/13/20 | 6073.11 | 52.10 | 52.12 | 0.02 | 6021.01 |
| MW-3 | 03/18/21 | 6073.11 | 52.19 | 52.26 | 0.07 | 6020.90 |
| MW-3 | 05/18/21 | 6073.11 | 52.21 | 52.25 | 0.04 | 6020.89 |
| MW-3 | 08/22/21 | 6073.11 | 52.23 | 52.27 | 0.04 | 6020.87 |
| MW-3 | 11/15/21 | 6073.11 | 52.27 | 52.32 | 0.05 | 6020.83 |
| MW-3 | 03/23/22 | 6073.11 | 52.33 | 52.37 | 0.04 | 6020.77 |
| MW-3 | 05/20/22 | 6073.11 | 52.29 | 52.33 | 0.04 | 6020.81 |
| MW-3 | 07/31/22 | 6073.11 | 52.32 | 52.34 | 0.02 | 6020.79 |
| MW-3 | 11/05/22 | 6073.11 | 52.04 | 52.05 | 0.01 | 6021.07 |
| MW-3 | 03/28/23 | 6073.11 | ND | 51.85 | | 6021.26 |
| MW-3 | 05/19/23 | 6073.11 | ND | 51.83 | | 6021.28 |
| MW-3 | 08/30/23 | 6073.11 | ND | 51.73 | | 6021.38 |
| MW-3 | 11/11/23 | 6073.11 | ND | 51.77 | | 6021.34 |
| | | | | | | |
| MW-4 | 12/07/06 | 6072.71 | ND | 50.40 | | 6022.31 |
| MW-4 | 03/28/07 | 6072.71 | ND | 50.19 | | 6022.52 |
| MW-4 | 06/19/07 | 6072.71 | ND | 50.21 | | 6022.50 |
| MW-4 | 09/17/07 | 6072.71 | ND | 50.34 | | 6022.37 |
| MW-4 | 12/17/07 | 6072.71 | ND | 49.78 | | 6022.93 |
| MW-4 | 03/10/08 | 6072.71 | ND | 50.30 | | 6022.41 |
| MW-4 | 06/17/08 | 6072.71 | ND | 49.50 | | 6023.21 |
| MW-4 | 09/10/08 | 6072.71 | ND | 49.17 | | 6023.54 |
| MW-4 | 12/02/08 | 6072.71 | ND | 49.00 | | 6023.71 |
| MW-4 | 03/03/09 | 6072.71 | ND | 48.93 | | 6023.78 |
| MW-4 | 06/09/09 | 6072.71 | ND | 48.94 | | 6023.77 |
| MW-4 | 08/28/09 | 6072.71 | ND | 49.04 | | 6023.67 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-4 | 11/04/09 | 6072.71 | ND | 49.16 | | 6023.55 |
| MW-4 | 02/11/10 | 6072.71 | ND | 49.26 | | 6023.45 |
| MW-4 | 06/07/10 | 6072.71 | ND | 49.45 | | 6023.26 |
| MW-4 | 09/24/10 | 6072.71 | ND | 49.15 | | 6023.56 |
| MW-4 | 11/02/10 | 6072.71 | ND | 49.73 | | 6022.98 |
| MW-4 | 02/07/11 | 6072.71 | ND | 49.86 | | 6022.85 |
| MW-4 | 05/10/11 | 6072.71 | ND | 49.98 | | 6022.73 |
| MW-4 | 09/23/11 | 6072.71 | ND | 50.09 | | 6022.62 |
| MW-4 | 11/01/11 | 6072.71 | ND | 50.31 | | 6022.40 |
| MW-4 | 02/21/12 | 6072.71 | ND | 50.46 | | 6022.25 |
| MW-4 | 05/14/12 | 6072.71 | ND | 50.55 | | 6022.16 |
| MW-4 | 06/09/13 | 6072.71 | ND | 50.93 | | 6021.78 |
| MW-4 | 09/09/13 | 6072.71 | ND | 51.11 | | 6021.60 |
| MW-4 | 12/12/13 | 6072.71 | ND | 51.12 | | 6021.59 |
| MW-4 | 04/02/14 | 6072.71 | ND | 51.14 | | 6021.57 |
| MW-4 | 10/23/14 | 6072.71 | ND | 51.26 | | 6021.45 |
| MW-4 | 05/29/15 | 6072.71 | ND | 51.33 | | 6021.38 |
| MW-4 | 11/23/15 | 6072.71 | ND | 51.08 | | 6021.63 |
| MW-4 | 04/16/16 | 6072.71 | ND | 50.92 | | 6021.79 |
| MW-4 | 10/12/16 | 6072.71 | ND | 51.01 | | 6021.70 |
| MW-4 | 06/09/17 | 6072.71 | ND | 51.07 | | 6021.64 |
| MW-4 | 11/12/17 | 6072.71 | ND | 51.17 | | 6021.54 |
| MW-4 | 05/16/18 | 6072.71 | ND | 51.16 | | 6021.55 |
| MW-4 | 10/26/18 | 6072.71 | ND | 51.33 | | 6021.38 |
| MW-4 | 05/22/19 | 6072.71 | ND | 51.40 | | 6021.31 |
| MW-4 | 11/12/19 | 6072.71 | ND | 51.47 | | 6021.24 |
| MW-4 | 05/17/20 | 6072.71 | ND | 51.58 | | 6021.13 |
| MW-4 | 11/13/20 | 6072.71 | ND | 51.68 | | 6021.03 |
| MW-4 | 05/18/21 | 6072.71 | ND | 51.75 | | 6020.96 |
| MW-4 | 11/15/21 | 6072.71 | ND | 51.85 | | 6020.86 |
| MW-4 | 05/20/22 | 6072.71 | ND | 51.86 | | 6020.85 |
| MW-4 | 11/05/22 | 6072.71 | ND | 51.62 | | 6021.09 |
| MW-4 | 05/19/23 | 6072.71 | ND | 51.40 | | 6021.31 |
| MW-4 | 11/11/23 | 6072.71 | ND | 51.35 | | 6021.36 |
| | | | | | | |
| TMW-5 | 12/07/06 | 6072.29 | ND | 49.83 | | 6022.46 |
| TMW-5 | 03/28/07 | 6072.29 | ND | 49.58 | | 6022.71 |
| TMW-5 | 06/19/07 | 6072.29 | ND | 49.64 | | 6022.65 |
| TMW-5 | 09/17/07 | 6072.29 | ND | 49.77 | | 6022.52 |
| TMW-5 | 12/17/07 | 6072.29 | ND | 50.38 | | 6021.91 |
| TMW-5 | 03/10/08 | 6072.29 | ND | 46.59 | | 6025.70 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| TMW-5 | 06/17/08 | 6072.29 | ND | 48.87 | | 6023.42 |
| TMW-5 | 09/10/08 | 6072.29 | ND | 48.56 | | 6023.73 |
| TMW-5 | 12/02/08 | 6072.29 | ND | 48.44 | | 6023.85 |
| TMW-5 | 03/03/09 | 6072.29 | ND | 44.40 | | 6027.89 |
| TMW-5 | 06/09/09 | 6072.29 | ND | 48.38 | | 6023.91 |
| TMW-5 | 08/28/09 | 6072.29 | ND | DRY | | 0.00 |
| TMW-5 | 11/04/09 | 6072.29 | ND | 48.58 | | 6023.71 |
| TMW-5 | 02/11/10 | 6072.29 | ND | 48.67 | | 6023.62 |
| TMW-5 | 06/07/10 | 6072.29 | ND | 48.81 | | 6023.48 |
| TMW-5 | 09/24/10 | 6072.29 | ND | 49.04 | | 6023.25 |
| TMW-5 | 11/02/10 | 6072.29 | ND | 49.12 | | 6023.17 |
| TMW-5 | 02/07/11 | 6072.29 | ND | 49.30 | | 6022.99 |
| TMW-5 | 05/10/11 | 6072.29 | ND | 49.41 | | 6022.88 |
| TMW-5 | 09/23/11 | 6072.29 | ND | 49.70 | | 6022.59 |
| TMW-5 | 11/01/11 | 6072.29 | ND | 49.71 | | 6022.58 |
| TMW-5 | 02/21/12 | 6072.29 | ND | 49.87 | | 6022.42 |
| TMW-5 | 05/14/12 | 6072.29 | ND | 49.96 | | 6022.33 |
| TMW-5 | 06/09/13 | 6072.29 | ND | 50.31 | | 6021.98 |
| TMW-5 | 09/09/13 | 6072.29 | ND | 50.48 | | 6021.81 |
| TMW-5 | 12/12/13 | 6072.29 | ND | 50.53 | | 6021.76 |
| TMW-5 | 04/02/14 | 6072.29 | ND | 50.54 | | 6021.75 |
| TMW-5 | Well abandoned 8/11/2014 | | | | | |
| | | | | | | |
| MW-6 | 12/12/13 | 6072.76 | 51.10 | 51.13 | 0.03 | 6021.65 |
| MW-6 | 04/02/14 | 6072.76 | 51.12 | 51.15 | 0.03 | 6021.63 |
| MW-6 | 10/23/14 | 6072.76 | ND | 51.26 | | 6021.50 |
| MW-6 | 05/29/15 | 6072.76 | ND | 51.34 | | 6021.42 |
| MW-6 | 11/23/15 | 6072.76 | ND | 51.08 | | 6021.68 |
| MW-6 | 04/16/16 | 6072.76 | ND | 50.89 | | 6021.87 |
| MW-6 | 10/12/16 | 6072.76 | ND | 51.02 | | 6021.74 |
| MW-6 | 06/09/17 | 6072.76 | ND | 51.08 | | 6021.68 |
| MW-6 | 11/12/17 | 6072.76 | ND | 51.19 | | 6021.57 |
| MW-6 | 05/16/18 | 6072.76 | ND | 51.18 | | 6021.58 |
| MW-6 | 10/26/18 | 6072.76 | ND | 51.33 | | 6021.43 |
| MW-6 | 05/22/19 | 6072.76 | ND | 51.40 | | 6021.36 |
| MW-6 | 11/12/19 | 6072.76 | ND | 51.51 | | 6021.25 |
| MW-6 | 05/17/20 | 6072.76 | ND | 51.58 | | 6021.18 |
| MW-6 | 11/13/20 | 6072.76 | ND | 51.68 | | 6021.08 |
| MW-6 | 05/18/21 | 6072.76 | ND | 51.76 | | 6021.00 |
| MW-6 | 08/22/21 | 6072.76 | ND | 51.80 | | 6020.96 |
| MW-6 | 11/15/21 | 6072.76 | ND | 51.85 | | 6020.91 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-6 | 03/23/22 | 6072.76 | ND | 51.90 | | 6020.86 |
| MW-6 | 05/20/22 | 6072.76 | ND | 51.87 | | 6020.89 |
| MW-6 | 07/31/22 | 6072.76 | ND | 51.90 | | 6020.86 |
| MW-6 | 11/05/22 | 6072.76 | ND | 51.61 | | 6021.15 |
| MW-6 | 03/28/23 | 6072.76 | ND | 51.43 | | 6021.33 |
| MW-6 | 05/19/23 | 6072.76 | ND | 51.40 | | 6021.36 |
| MW-6 | 08/30/23 | 6072.76 | ND | 51.32 | | 6021.44 |
| MW-6 | 11/11/23 | 6072.76 | ND | 51.35 | | 6021.41 |
| | | | | | | |
| MW-7 | 12/12/13 | 6072.63 | ND | 51.12 | | 6021.51 |
| MW-7 | 04/02/14 | 6072.63 | ND | 51.13 | | 6021.50 |
| MW-7 | 10/23/14 | 6072.63 | ND | 51.25 | | 22.00 |
| MW-7 | 05/29/15 | 6072.63 | ND | 51.33 | | 6021.30 |
| MW-7 | 11/23/15 | 6072.63 | ND | 51.06 | | 6021.57 |
| MW-7 | 04/16/16 | 6072.63 | ND | 50.90 | | 6021.73 |
| MW-7 | 10/12/16 | 6072.63 | ND | 51.01 | | 6021.62 |
| MW-7 | 06/09/17 | 6072.63 | ND | 51.07 | | 6021.56 |
| MW-7 | 11/12/17 | 6072.63 | ND | 51.18 | | 6021.45 |
| MW-7 | 05/16/18 | 6072.63 | 50.98 | 51.86 | 0.88 | 6021.43 |
| MW-7 | 07/15/18 | 6072.63 | 51.03 | 51.82 | 0.79 | 6021.40 |
| MW-7 | 10/26/18 | 6072.63 | 51.13 | 51.14 | 0.01 | 6021.50 |
| MW-7 | 05/22/19 | 6072.63 | 51.29 | 51.82 | 0.53 | 6021.21 |
| MW-7 | 11/12/19 | 6072.63 | 51.28 | 52.08 | 0.80 | 6021.15 |
| MW-7 | 05/17/20 | 6072.63 | 51.33 | 52.21 | 0.88 | 6021.08 |
| MW-7 | 08/19/20 | 6072.63 | 51.42 | 52.30 | 0.88 | 6020.99 |
| MW-7 | 11/13/20 | 6072.63 | 51.43 | 52.34 | 0.91 | 6020.97 |
| MW-7 | 03/18/21 | 6072.63 | 51.20 | 51.53 | 0.33 | 6021.35 |
| MW-7 | 05/18/21 | 6072.63 | 51.52 | 52.41 | 0.89 | 6020.89 |
| MW-7 | 08/22/21 | 6072.63 | 51.72 | 52.03 | 0.31 | 6020.83 |
| MW-7 | 11/15/21 | 6072.63 | 51.80 | 51.94 | 0.14 | 6020.80 |
| MW-7 | 03/23/22 | 6072.63 | 51.86 | 51.92 | 0.06 | 6020.76 |
| MW-7 | 05/20/22 | 6072.63 | 51.83 | 51.88 | 0.05 | 6020.79 |
| MW-7 | 07/31/22 | 6072.63 | 51.87 | 51.90 | 0.03 | 6020.75 |
| MW-7 | 11/05/22 | 6072.63 | 51.59 | 51.60 | 0.01 | 6021.04 |
| MW-7 | 03/28/23 | 6072.63 | 51.28 | 51.79 | 0.51 | 6021.22 |
| MW-7 | 05/19/23 | 6072.63 | 51.30 | 51.61 | 0.31 | 6021.25 |
| MW-7 | 08/30/23 | 6072.63 | 51.22 | 51.49 | 0.27 | 6021.34 |
| MW-7 | 11/11/23 | 6072.63 | 51.31 | 51.34 | 0.03 | 6021.31 |
| | | | | | | |
| MW-8 | 12/12/13 | 6072.60 | 50.80 | 51.94 | 1.14 | 6021.52 |
| MW-8 | 04/02/14 | 6072.60 | 50.81 | 51.93 | 1.12 | 6021.51 |
| MW-8 | 10/23/14 | 6072.60 | 50.93 | 52.12 | 1.19 | 6021.37 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-8 | 05/29/15 | 6072.60 | 51.00 | 52.18 | 1.18 | 6021.31 |
| MW-8 | 11/23/15 | 6072.60 | 50.83 | 51.63 | 0.80 | 6021.57 |
| MW-8 | 04/16/16 | 6072.60 | 50.68 | 51.44 | 0.76 | 6021.73 |
| MW-8 | 10/12/16 | 6072.60 | 50.81 | 51.52 | 0.71 | 6021.61 |
| MW-8 | 11/30/16 | 6072.60 | 50.89 | 51.49 | 0.60 | 6021.56 |
| MW-8 | 06/09/17 | 6072.60 | 51.01 | 51.11 | 0.10 | 6021.57 |
| MW-8 | 07/15/17 | 6072.60 | 50.68 | 52.28 | 1.60 | 6021.52 |
| MW-8 | 11/12/17 | 6072.60 | 50.78 | 50.82 | 0.04 | 6021.81 |
| MW-8 | 05/16/18 | 6072.60 | 50.90 | 51.83 | 0.93 | 6021.47 |
| MW-8 | 07/15/18 | 6072.60 | 51.13 | 52.51 | 1.38 | 6021.13 |
| MW-8 | 10/26/18 | 6072.60 | 51.04 | 51.04 | <0.01 | 6021.56 |
| MW-8 | 05/22/19 | 6072.60 | 51.09 | 52.12 | 1.03 | 6021.25 |
| MW-8 | 11/12/19 | 6072.60 | 51.15 | 52.74 | 1.59 | 6021.05 |
| MW-8 | 05/17/20 | 6072.60 | 51.23 | 52.41 | 1.18 | 6021.08 |
| MW-8 | 08/19/20 | 6072.60 | 51.30 | 52.53 | 1.23 | 6020.99 |
| MW-8 | 11/13/20 | 6072.60 | 51.33 | 52.53 | 1.20 | 6020.97 |
| MW-8 | 03/18/21 | 6072.60 | 51.20 | 51.80 | 0.60 | 6021.25 |
| MW-8 | 05/18/21 | 6072.60 | 51.60 | 51.98 | 0.38 | 6020.91 |
| MW-8 | 08/22/21 | 6072.60 | 51.55 | 52.39 | 0.84 | 6020.84 |
| MW-8 | 11/15/21 | 6072.60 | 51.59 | 52.44 | 0.85 | 6020.80 |
| MW-8 | 03/23/22 | 6072.60 | 51.60 | 52.59 | 0.99 | 6020.75 |
| MW-8 | 05/20/22 | 6072.60 | 51.61 | 52.42 | 0.81 | 6020.79 |
| MW-8 | 07/31/22 | 6072.60 | 51.70 | 52.28 | 0.58 | 6020.76 |
| MW-8 | 11/05/22 | 6072.60 | 51.51 | 51.78 | 0.27 | 6021.02 |
| MW-8 | 03/28/23 | 6072.60 | 51.34 | 51.44 | 0.10 | 6021.24 |
| MW-8 | 05/19/23 | 6072.60 | 51.31 | 51.42 | 0.11 | 6021.26 |
| MW-8 | 08/30/23 | 6072.60 | 51.23 | 51.37 | 0.14 | 6021.34 |
| MW-8 | 11/11/23 | 6072.60 | 51.26 | 51.37 | 0.11 | 6021.31 |
| | | | | | | |
| MW-9 | 12/12/13 | 6073.57 | ND | 51.85 | | 6021.72 |
| MW-9 | 04/02/14 | 6073.57 | ND | 51.87 | | 6021.70 |
| MW-9 | 10/23/14 | 6073.57 | ND | 52.01 | | 6021.56 |
| MW-9 | 05/29/15 | 6073.57 | ND | 52.08 | | 6021.49 |
| MW-9 | 11/23/15 | 6073.57 | ND | 51.83 | | 6021.74 |
| MW-9 | 04/16/16 | 6073.57 | ND | 51.66 | | 6021.91 |
| MW-9 | 10/12/16 | 6073.57 | ND | 51.77 | | 6021.80 |
| MW-9 | 06/09/17 | 6073.57 | ND | 51.83 | | 6021.74 |
| MW-9 | 11/12/17 | 6073.57 | ND | 52.00 | | 6021.57 |
| MW-9 | 05/16/18 | 6073.57 | ND | 51.92 | | 6021.65 |
| MW-9 | 10/26/18 | 6073.57 | ND | 52.18 | | 6021.39 |
| MW-9 | 05/22/19 | 6073.57 | ND | 52.16 | | 6021.41 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-9 | 11/12/19 | 6073.57 | ND | 52.28 | | 6021.29 |
| MW-9 | 05/17/20 | 6073.57 | ND | 52.34 | | 6021.23 |
| MW-9 | 11/13/20 | 6073.57 | ND | 52.43 | | 6021.14 |
| MW-9 | 05/18/21 | 6073.57 | ND | 52.51 | | 6021.06 |
| MW-9 | 11/15/21 | 6073.57 | ND | 52.62 | | 6020.95 |
| MW-9 | 05/20/22 | 6073.57 | ND | 52.61 | | 6020.96 |
| MW-9 | 05/19/23 | 6073.57 | ND | 52.15 | | 6021.42 |
| MW-9 | 11/11/23 | 6073.57 | ND | 52.10 | | 6021.47 |
| | | | | | | |
| MW-10 | 12/12/13 | 6073.42 | ND | 51.79 | | 6021.63 |
| MW-10 | 04/02/14 | 6073.42 | ND | 51.81 | | 6021.61 |
| MW-10 | 10/23/14 | 6073.42 | ND | 51.94 | | 6021.48 |
| MW-10 | 05/29/15 | 6073.42 | ND | 52.03 | | 6021.39 |
| MW-10 | 11/23/15 | 6073.42 | ND | 51.74 | | 6021.68 |
| MW-10 | 04/16/16 | 6073.42 | ND | 51.60 | | 6021.82 |
| MW-10 | 10/12/16 | 6073.42 | ND | 51.70 | | 6021.72 |
| MW-10 | 06/09/17 | 6073.42 | ND | 51.75 | | 6021.67 |
| MW-10 | 11/12/17 | 6073.42 | ND | 51.86 | | 6021.56 |
| MW-10 | 05/16/18 | 6073.42 | ND | 51.85 | | 6021.57 |
| MW-10 | 10/26/18 | 6073.42 | ND | 52.01 | | 6021.41 |
| MW-10 | 05/22/19 | 6073.42 | ND | 52.08 | | 6021.34 |
| MW-10 | 11/12/19 | 6073.42 | ND | 52.18 | | 6021.24 |
| MW-10 | 05/17/20 | 6073.42 | ND | 52.50 | | 6020.92 |
| MW-10 | 11/13/20 | 6073.42 | ND | 52.36 | | 6021.06 |
| MW-10 | 05/18/21 | 6073.42 | ND | 52.44 | | 6020.98 |
| MW-10 | 11/15/21 | 6073.42 | ND | 52.52 | | 6020.90 |
| MW-10 | 05/20/22 | 6073.42 | ND | 52.56 | | 6020.86 |
| MW-10 | 05/19/23 | 6073.42 | ND | 52.07 | | 6021.35 |
| MW-10 | 11/11/23 | 6073.42 | ND | 52.04 | | 6021.38 |
| | | | | | | |
| MW-11 | 12/12/13 | 6073.39 | 51.60 | 52.43 | 0.83 | 6021.58 |
| MW-11 | 04/02/14 | 6073.39 | 51.61 | 52.33 | 0.72 | 6021.60 |
| MW-11 | 10/23/14 | 6073.39 | 51.73 | 52.59 | 0.86 | 6021.45 |
| MW-11 | 05/29/15 | 6073.39 | 51.79 | 52.69 | 0.90 | 6021.38 |
| MW-11 | 11/23/15 | 6073.39 | 51.61 | 52.14 | 0.53 | 6021.65 |
| MW-11 | 04/16/16 | 6073.39 | 51.51 | 51.80 | 0.29 | 6021.81 |
| MW-11 | 10/12/16 | 6073.39 | 51.68 | 51.80 | 0.12 | 6021.68 |
| MW-11 | 06/09/17 | 6073.39 | 51.22 | 53.24 | 2.02 | 6021.67 |
| MW-11 | 07/15/17 | 6073.39 | 51.29 | 53.13 | 1.84 | 6021.64 |
| MW-11 | 11/12/17 | 6073.39 | 51.52 | 51.54 | 0.02 | 6021.87 |
| MW-11 | 05/16/18 | 6073.39 | 51.70 | 52.04 | 0.34 | 6021.61 |
| MW-11 | 07/15/18 | 6073.39 | 51.82 | 52.52 | 0.70 | 6021.40 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-11 | 10/26/18 | 6073.39 | 51.84 | 51.84 | <0.01 | 6021.55 |
| MW-11 | 05/22/19 | 6073.39 | 51.89 | 52.23 | 0.34 | 6021.42 |
| MW-11 | 11/12/19 | 6073.39 | 51.94 | 52.53 | 0.59 | 6021.30 |
| MW-11 | 05/17/20 | 6073.39 | 52.02 | 52.79 | 0.77 | 6021.18 |
| MW-11 | 08/19/20 | 6073.39 | 52.27 | 52.35 | 0.08 | 6021.10 |
| MW-11 | 11/13/20 | 6073.39 | 52.32 | 52.33 | 0.01 | 6021.07 |
| MW-11 | 03/18/21 | 6073.39 | ND | 52.39 | | 6021.00 |
| MW-11 | 05/18/21 | 6073.39 | ND | 52.39 | | 6021.00 |
| MW-11 | 08/22/21 | 6073.39 | 52.45 | 52.45 | <0.01 | 6020.94 |
| MW-11 | 11/15/21 | 6073.39 | ND | 52.48 | | 6020.91 |
| MW-11 | 03/23/22 | 6073.39 | ND | 52.52 | | 6020.87 |
| MW-11 | 05/20/22 | 6073.39 | ND | 52.49 | | 6020.90 |
| MW-11 | 07/31/22 | 6073.39 | ND | 52.55 | | 6020.84 |
| MW-11 | 11/05/22 | 6073.39 | ND | 52.24 | | 6021.15 |
| MW-11 | 03/28/23 | 6073.39 | ND | 52.05 | | 6021.34 |
| MW-11 | 05/19/23 | 6073.39 | ND | 52.02 | | 6021.37 |
| MW-11 | 08/30/23 | 6073.39 | ND | 51.94 | | 6021.45 |
| MW-11 | 11/11/23 | 6073.39 | ND | 51.97 | | 6021.42 |
| | | | | | | |
| MW-12 | 12/12/13 | 6073.32 | ND | 48.13 | | 6025.19 |
| MW-12 | 04/02/14 | 6073.32 | ND | 48.09 | | 6025.23 |
| MW-12 | 10/23/14 | 6073.32 | ND | 48.31 | | 6025.01 |
| MW-12 | 05/29/15 | 6073.32 | ND | 48.31 | | 6025.01 |
| MW-12 | 11/23/15 | 6073.32 | ND | 48.11 | | 6025.21 |
| MW-12 | 04/16/16 | 6073.32 | ND | 47.85 | | 6025.47 |
| MW-12 | 10/12/16 | 6073.32 | ND | 47.57 | | 6025.75 |
| MW-12 | 06/09/17 | 6073.32 | ND | 47.54 | | 6025.78 |
| MW-12 | 11/12/17 | 6073.32 | ND | 47.51 | | 6025.81 |
| MW-12 | 05/16/18 | 6073.32 | ND | 47.33 | | 6025.99 |
| MW-12 | 10/26/18 | 6073.32 | ND | 47.38 | | 6025.94 |
| MW-12 | 05/22/19 | 6073.32 | ND | 47.73 | | 6025.59 |
| MW-12 | 11/12/19 | 6073.32 | ND | 47.78 | | 6025.54 |
| MW-12 | 05/17/20 | 6073.32 | ND | 47.85 | | 6025.47 |
| MW-12 | 11/13/20 | 6073.32 | ND | 47.86 | | 6025.46 |
| MW-12 | 05/18/21 | 6073.32 | ND | 47.91 | | 6025.41 |
| MW-12 | 11/15/21 | 6073.32 | ND | 47.93 | | 6025.39 |
| MW-12 | 05/20/22 | 6073.32 | ND | 47.98 | | 6025.34 |
| MW-12 | 05/19/23 | 6073.32 | ND | 47.81 | | 6025.51 |
| MW-12 | 11/11/23 | 6073.32 | ND | 47.68 | | 6025.64 |
| | | | | | | |
| MW-13 | 10/23/14 | 6073.25 | ND | 51.62 | | 6021.63 |
| MW-13 | 05/29/15 | 6073.25 | ND | 51.69 | | 6021.56 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-13 | 11/23/15 | 6073.25 | ND | 51.42 | | 6021.83 |
| MW-13 | 04/16/16 | 6073.25 | ND | 51.29 | | 6021.96 |
| MW-13 | 10/12/16 | 6073.25 | ND | 51.37 | | 6021.88 |
| MW-13 | 06/09/17 | 6073.25 | ND | 51.44 | | 6021.81 |
| MW-13 | 11/12/17 | 6073.25 | ND | 51.54 | | 6021.71 |
| MW-13 | 05/16/18 | 6073.25 | ND | 51.52 | | 6021.73 |
| MW-13 | 10/26/18 | 6073.25 | ND | 51.68 | | 6021.57 |
| MW-13 | 05/22/19 | 6073.25 | ND | 51.71 | | 6021.54 |
| MW-13 | 11/12/19 | 6073.25 | ND | 51.80 | | 6021.45 |
| MW-13 | 05/17/20 | 6073.25 | ND | 52.01 | | 6021.24 |
| MW-13 | 11/13/20 | 6073.25 | ND | 52.12 | | 6021.13 |
| MW-13 | 05/18/21 | 6073.25 | ND | 52.16 | | 6021.09 |
| MW-13 | 11/15/21 | 6073.25 | ND | 52.28 | | 6020.97 |
| MW-13 | 05/20/22 | 6073.25 | ND | 52.28 | | 6020.97 |
| MW-13 | 11/05/22 | 6073.25 | ND | 52.04 | | 6021.21 |
| MW-13 | 05/19/23 | 6073.25 | ND | 51.84 | | 6021.41 |
| MW-13 | 11/11/23 | 6073.25 | ND | 51.80 | | 6021.45 |
| | | | | | | |
| MW-14 | 10/23/14 | 6073.14 | ND | 51.53 | | 6021.61 |
| MW-14 | 05/29/15 | 6073.14 | ND | 51.60 | | 6021.54 |
| MW-14 | 11/23/15 | 6073.14 | ND | 51.33 | | 6021.81 |
| MW-14 | 04/16/16 | 6073.14 | ND | 51.19 | | 6021.95 |
| MW-14 | 10/12/16 | 6073.14 | ND | 51.30 | | 6021.84 |
| MW-14 | 06/09/17 | 6073.14 | ND | 51.35 | | 6021.79 |
| MW-14 | 11/12/17 | 6073.14 | ND | 51.46 | | 6021.68 |
| MW-14 | 05/16/18 | 6073.14 | ND | 51.43 | | 6021.71 |
| MW-14 | 10/26/18 | 6073.14 | ND | 51.57 | | 6021.57 |
| MW-14 | 05/22/19 | 6073.14 | ND | 51.62 | | 6021.52 |
| MW-14 | 11/12/19 | 6073.14 | ND | 51.70 | | 6021.44 |
| MW-14 | 05/17/20 | 6073.14 | ND | 51.89 | | 6021.25 |
| MW-14 | 11/13/20 | 6073.14 | ND | 51.99 | | 6021.15 |
| MW-14 | 05/18/21 | 6073.14 | ND | 52.07 | | 6021.07 |
| MW-14 | 11/15/21 | 6073.14 | ND | 52.15 | | 6020.99 |
| MW-14 | 05/20/22 | 6073.14 | ND | 52.15 | | 6020.99 |
| MW-14 | 05/19/23 | 6073.14 | ND | 51.72 | | 6021.42 |
| MW-14 | 11/11/23 | 6073.14 | ND | 51.66 | | 6021.48 |
| | | | | | | |
| MW-15 | 10/23/14 | 6072.47 | ND | 51.14 | | 6021.33 |
| MW-15 | 05/29/15 | 6072.47 | ND | 51.19 | | 6021.28 |
| MW-15 | 11/23/15 | 6072.47 | ND | 50.93 | | 6021.54 |
| MW-15 | 04/16/16 | 6072.47 | ND | 50.78 | | 6021.69 |
| MW-15 | 10/12/16 | 6072.47 | ND | 50.87 | | 6021.60 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-15 | 06/09/17 | 6072.47 | ND | 50.96 | | 6021.51 |
| MW-15 | 11/12/17 | 6072.47 | ND | 51.06 | | 6021.41 |
| MW-15 | 05/16/18 | 6072.47 | ND | 51.03 | | 6021.44 |
| MW-15 | 10/26/18 | 6072.47 | ND | 51.19 | | 6021.28 |
| MW-15 | 05/22/19 | 6072.47 | ND | 51.27 | | 6021.20 |
| MW-15 | 11/12/19 | 6072.47 | ND | 51.35 | | 6021.12 |
| MW-15 | 05/17/20 | 6072.47 | ND | 51.42 | | 6021.05 |
| MW-15 | 11/13/20 | 6072.47 | ND | 51.53 | | 6020.94 |
| MW-15 | 05/18/21 | 6072.47 | ND | 51.61 | | 6020.86 |
| MW-15 | 11/15/21 | 6072.47 | ND | 51.69 | | 6020.78 |
| MW-15 | 05/20/22 | 6072.47 | ND | 51.71 | | 6020.76 |
| MW-15 | 11/05/22 | 6072.47 | ND | 51.46 | | 6021.01 |
| MW-15 | 05/19/23 | 6072.47 | ND | 51.26 | | 6021.21 |
| MW-15 | 11/11/23 | 6072.47 | ND | 51.25 | | 6021.22 |
| | | | | | | |
| MW-16 | 10/23/14 | 6071.78 | ND | 50.49 | | 6021.29 |
| MW-16 | 05/29/15 | 6071.78 | ND | 50.57 | | 6021.21 |
| MW-16 | 11/23/15 | 6071.78 | ND | 50.30 | | 6021.48 |
| MW-16 | 04/16/16 | 6071.78 | ND | 50.15 | | 6021.63 |
| MW-16 | 10/12/16 | 6071.78 | ND | 50.24 | | 6021.54 |
| MW-16 | 06/09/17 | 6071.78 | ND | 50.32 | | 6021.46 |
| MW-16 | 11/12/17 | 6071.78 | ND | 50.44 | | 6021.34 |
| MW-16 | 05/16/18 | 6071.78 | ND | 50.40 | | 6021.38 |
| MW-16 | 10/26/18 | 6071.78 | ND | 50.55 | | 6021.23 |
| MW-16 | 05/22/19 | 6071.78 | ND | 51.40 | | 6020.38 |
| MW-16 | 11/12/19 | 6071.78 | ND | 50.69 | | 6021.09 |
| MW-16 | 05/17/20 | 6071.78 | ND | 50.78 | | 6021.00 |
| MW-16 | 11/13/20 | 6071.78 | ND | 50.88 | | 6020.90 |
| MW-16 | 05/18/21 | 6071.78 | ND | 50.97 | | 6020.81 |
| MW-16 | 11/15/21 | 6071.78 | ND | 51.05 | | 6020.73 |
| MW-16 | 05/20/22 | 6071.78 | ND | 51.08 | | 6020.70 |
| MW-16 | 05/19/23 | 6071.78 | ND | 50.62 | | 6021.16 |
| MW-16 | 11/11/23 | 6071.78 | ND | 50.55 | | 6021.23 |
| | | | | | | |
| MW-17 | 10/23/14 | 6071.79 | ND | 50.51 | | 6021.28 |
| MW-17 | 05/29/15 | 6071.79 | ND | 50.58 | | 6021.21 |
| MW-17 | 11/23/15 | 6071.79 | ND | 50.31 | | 6021.48 |
| MW-17 | 04/16/16 | 6071.79 | ND | 50.16 | | 6021.63 |
| MW-17 | 10/12/16 | 6071.79 | ND | 50.26 | | 6021.53 |
| MW-17 | 06/09/17 | 6071.79 | ND | 50.30 | | 6021.49 |
| MW-17 | 11/12/17 | 6071.79 | ND | 50.43 | | 6021.36 |
| MW-17 | 05/16/18 | 6071.79 | ND | 50.41 | | 6021.38 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-17 | 10/26/18 | 6071.79 | ND | 50.56 | | 6021.23 |
| MW-17 | 05/22/19 | 6071.79 | ND | 50.63 | | 6021.16 |
| MW-17 | 11/12/19 | 6071.79 | ND | 50.72 | | 6021.07 |
| MW-17 | 05/17/20 | 6071.79 | ND | 50.79 | | 6021.00 |
| MW-17 | 11/13/20 | 6071.79 | ND | 51.07 | | 6020.72 |
| MW-17 | 05/18/21 | 6071.79 | ND | 51.00 | | 6020.79 |
| MW-17 | 11/15/21 | 6071.79 | ND | 51.67 | | 6020.12 |
| MW-17 | 05/20/22 | 6071.79 | ND | 51.08 | | 6020.71 |
| MW-17 | 11/05/22 | 6071.79 | ND | 50.83 | | 6020.96 |
| MW-17 | 05/19/23 | 6071.79 | ND | 50.61 | | 6021.18 |
| MW-17 | 11/11/23 | 6071.79 | ND | 49.69 | | 6022.10 |
| | | | | | | |
| MW-18 | 10/23/14 | 6072.71 | ND | 51.28 | | 6021.43 |
| MW-18 | 05/29/15 | 6072.71 | ND | 51.37 | | 6021.34 |
| MW-18 | 11/23/15 | 6072.71 | ND | 51.09 | | 6021.62 |
| MW-18 | 04/16/16 | 6072.71 | ND | 50.94 | | 6021.77 |
| MW-18 | 10/12/16 | 6072.71 | ND | 51.03 | | 6021.68 |
| MW-18 | 06/09/17 | 6072.71 | ND | 51.10 | | 6021.61 |
| MW-18 | 11/12/17 | 6072.71 | ND | 51.20 | | 6021.51 |
| MW-18 | 05/16/18 | 6072.71 | ND | 51.19 | | 6021.52 |
| MW-18 | 10/26/18 | 6072.71 | ND | 51.34 | | 6021.37 |
| MW-18 | 05/22/19 | 6072.71 | ND | 51.42 | | 6021.29 |
| MW-18 | 11/12/19 | 6072.71 | ND | 51.50 | | 6021.21 |
| MW-18 | 05/17/20 | 6072.71 | ND | 51.58 | | 6021.13 |
| MW-18 | 11/13/20 | 6072.71 | ND | 51.69 | | 6021.02 |
| MW-18 | 05/18/21 | 6072.71 | ND | 51.77 | | 6020.94 |
| MW-18 | 11/15/21 | 6072.71 | ND | 51.86 | | 6020.85 |
| MW-18 | 05/20/22 | 6072.71 | ND | 51.87 | | 6020.84 |
| MW-18 | 11/05/22 | 6072.71 | ND | 51.62 | | 6021.09 |
| MW-18 | 05/19/23 | 6072.71 | ND | 51.40 | | 6021.31 |
| MW-18 | 11/11/23 | 6072.71 | ND | 51.31 | | 6021.40 |
| | | | | | | |
| MW-19 | 10/23/14 | 6074.00 | ND | 52.41 | | 6021.59 |
| MW-19 | 05/29/15 | 6074.00 | ND | 52.48 | | 6021.52 |
| MW-19 | 11/23/15 | 6074.00 | ND | 52.21 | | 6021.79 |
| MW-19 | 04/16/16 | 6074.00 | ND | 52.17 | | 6021.83 |
| MW-19 | 10/12/16 | 6074.00 | ND | 52.15 | | 6021.85 |
| MW-19 | 06/09/17 | 6074.00 | ND | 52.22 | | 6021.78 |
| MW-19 | 11/12/17 | 6074.00 | ND | 52.32 | | 6021.68 |
| MW-19 | 05/16/18 | 6074.00 | ND | 52.31 | | 6021.69 |
| MW-19 | 10/26/18 | 6074.00 | ND | 52.48 | | 6021.52 |
| MW-19 | 05/22/19 | 6074.00 | ND | 52.55 | | 6021.45 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-19 | 11/12/19 | 6074.00 | ND | 52.66 | | 6021.34 |
| MW-19 | 05/17/20 | 6074.00 | ND | 52.73 | | 6021.27 |
| MW-19 | 11/13/20 | 6074.00 | ND | 52.84 | | 6021.16 |
| MW-19 | 05/18/21 | 6074.00 | ND | 52.92 | | 6021.08 |
| MW-19 | 11/15/21 | 6074.00 | ND | 53.01 | | 6020.99 |
| MW-19 | 05/20/22 | 6074.00 | ND | 53.02 | | 6020.98 |
| MW-19 | 11/05/22 | 6074.00 | ND | 52.75 | | 6021.25 |
| MW-19 | 05/19/23 | 6074.00 | ND | 52.55 | | 6021.45 |
| MW-19 | 11/11/23 | 6074.00 | ND | 52.50 | | 6021.50 |
| | | | | | | |
| MW-20 | 10/23/14 | 6072.77 | ND | 51.33 | | 6021.44 |
| MW-20 | 05/29/15 | 6072.77 | ND | 51.41 | | 6021.36 |
| MW-20 | 11/23/15 | 6072.77 | ND | 51.14 | | 6021.63 |
| MW-20 | 04/16/16 | 6072.77 | ND | 50.99 | | 6021.78 |
| MW-20 | 10/12/16 | 6072.77 | ND | 51.09 | | 6021.68 |
| MW-20 | 06/09/17 | 6072.77 | ND | 51.14 | | 6021.63 |
| MW-20 | 11/12/17 | 6072.77 | ND | 51.24 | | 6021.53 |
| MW-20 | 05/16/18 | 6072.77 | ND | 51.24 | | 6021.53 |
| MW-20 | 10/26/18 | 6072.77 | ND | 51.38 | | 6021.39 |
| MW-20 | 05/22/19 | 6072.77 | ND | 51.46 | | 6021.31 |
| MW-20 | 11/12/19 | 6072.77 | ND | 51.55 | | 6021.22 |
| MW-20 | 05/17/20 | 6072.77 | ND | 51.62 | | 6021.15 |
| MW-20 | 11/13/20 | 6072.77 | ND | 51.73 | | 6021.04 |
| MW-20 | 05/18/21 | 6072.77 | ND | 51.83 | | 6020.94 |
| MW-20 | 11/15/21 | 6072.77 | ND | 51.91 | | 6020.86 |
| MW-20 | 05/20/22 | 6072.77 | ND | 51.92 | | 6020.85 |
| MW-20 | 11/05/22 | 6072.77 | ND | 51.65 | | 6021.12 |
| MW-20 | 05/19/23 | 6072.77 | ND | 51.45 | | 6021.32 |
| MW-20 | 11/11/23 | 6072.77 | ND | 51.39 | | 6021.38 |
| | | | | | | |
| MW-21 | 05/17/20 | 6071.17 | ND | 50.27 | | 6020.90 |
| MW-21 | 11/13/20 | 6071.17 | 50.10 | 50.55 | | 6020.96 |
| MW-21 | 03/18/21 | 6071.17 | 50.18 | 50.50 | 0.32 | 6020.91 |
| MW-21 | 05/18/21 | 6071.17 | 50.21 | 51.16 | 0.95 | 6020.72 |
| MW-21 | 08/22/21 | 6071.17 | 50.25 | 51.25 | 1.00 | 6020.67 |
| MW-21 | 11/15/21 | 6071.17 | 49.77 | 50.08 | 0.31 | 6021.32 |
| MW-21 | 03/23/22 | 6071.17 | 50.28 | 51.42 | 1.14 | 6020.61 |
| MW-21 | 05/20/22 | 6071.17 | 50.32 | 51.17 | 0.85 | 6020.64 |
| MW-21 | 07/31/22 | 6071.17 | 50.36 | 51.16 | 0.80 | 6020.61 |
| MW-21 | 08/01/22 | 6071.17 | 50.44 | 50.93 | 0.49 | 6020.61 |
| MW-21 | 08/26/22 | 6071.17 | 50.44 | 50.84 | 0.07 | 6020.82 |
| MW-21 | 08/27/22 | 6071.17 | 50.50 | 50.88 | 0.38 | 6020.58 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

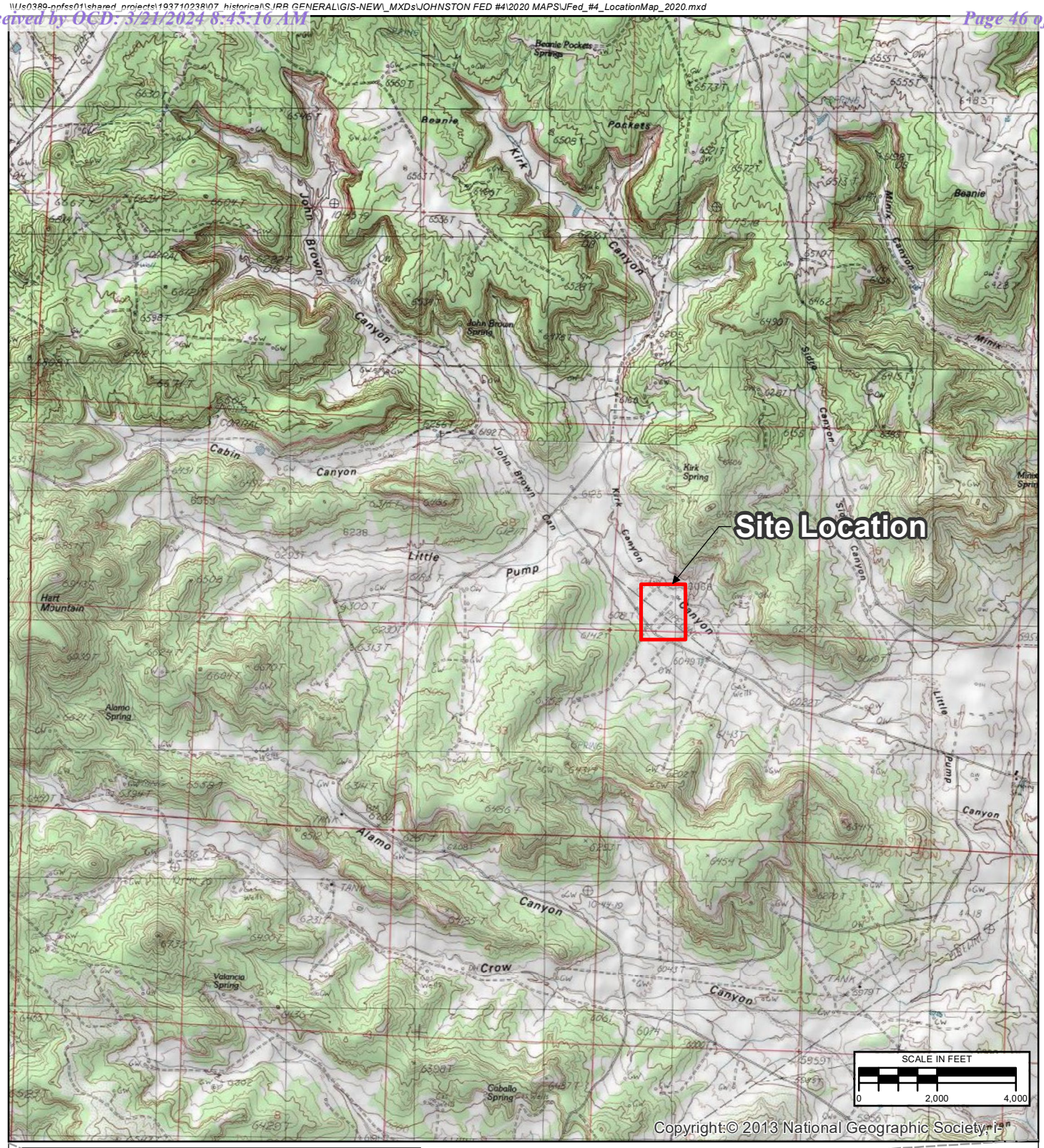
| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-21 | 08/28/22 | 6071.17 | ND | 50.56 | | 6020.61 |
| MW-21 | 10/14/22 | 6071.17 | 50.39 | 50.42 | 0.03 | 6020.77 |
| MW-21 | 11/05/22 | 6071.17 | 50.33 | 50.40 | 0.07 | 6020.82 |
| MW-21 | 11/15/22 | 6071.17 | ND | 50.30 | | 6020.87 |
| MW-21 | 03/28/23 | 6071.17 | 50.09 | 50.11 | 0.02 | 6021.08 |
| MW-21 | 05/19/23 | 6071.17 | 50.10 | 50.13 | 0.03 | 6021.06 |
| MW-21 | 08/30/23 | 6071.17 | 50.00 | 50.03 | 0.03 | 6021.16 |
| MW-21 | 11/11/23 | 6071.17 | 50.05 | 50.08 | 0.03 | 6021.11 |
| | | | | | | |
| MW-22 | 05/17/20 | 6070.47 | 49.57 | 49.58 | 0.01 | 6020.90 |
| MW-22 | 08/19/20 | 6070.47 | 49.55 | 49.94 | 0.39 | 6020.82 |
| MW-22 | 11/13/20 | 6070.47 | 49.79 | 49.95 | 0.16 | 6020.64 |
| MW-22 | 03/18/21 | 6070.47 | 49.66 | 50.00 | 0.34 | 6020.73 |
| MW-22 | 05/18/21 | 6070.47 | 49.65 | 50.09 | 0.44 | 6020.71 |
| MW-22 | 08/22/21 | 6070.47 | 49.72 | 50.10 | 0.38 | 6020.66 |
| MW-22 | 11/15/21 | 6070.47 | 50.24 | 51.38 | 1.14 | 6019.95 |
| MW-22 | 03/23/22 | 6070.47 | 49.82 | 50.08 | 0.26 | 6020.59 |
| MW-22 | 05/20/22 | 6070.47 | 49.80 | 50.02 | 0.22 | 6020.62 |
| MW-22 | 07/31/22 | 6070.47 | 49.87 | 49.92 | 0.05 | 6020.59 |
| MW-22 | 08/01/22 | 6070.47 | 49.87 | 49.93 | 0.06 | 6020.59 |
| MW-22 | 11/05/22 | 6070.47 | 49.60 | 49.61 | 0.01 | 6020.87 |
| MW-22 | 11/15/22 | 6070.47 | ND | 49.65 | | 6020.82 |
| MW-22 | 03/28/23 | 6070.47 | ND | 49.42 | | 6021.05 |
| MW-22 | 05/19/23 | 6070.47 | ND | 49.38 | | 6021.09 |
| MW-22 | 08/30/23 | 6070.47 | 49.31 | 49.32 | 0.01 | 6021.16 |
| MW-22 | 11/11/23 | 6070.47 | ND | 49.34 | | 6021.13 |
| | | | | | | |
| MW-23 | 05/17/20 | 6071.30 | ND | 50.30 | | 6021.00 |
| MW-23 | 11/13/20 | 6071.30 | ND | 50.37 | | 6020.93 |
| MW-23 | 05/18/21 | 6071.30 | ND | 50.48 | | 6020.82 |
| MW-23 | 11/15/21 | 6071.30 | ND | 50.55 | | 6020.75 |
| MW-23 | 05/20/22 | 6071.30 | ND | 50.54 | | 6020.76 |
| MW-23 | 11/05/22 | 6071.30 | ND | 50.30 | | 6021.00 |
| MW-23 | 05/19/23 | 6071.30 | ND | 50.08 | | 6021.22 |
| MW-23 | 11/11/23 | 6071.30 | ND | 50.07 | | 6021.23 |
| | | | | | | |
| MW-24 | 11/05/22 | 6070.20 | ND | 50.20 | | 6020.00 |
| MW-24 | 05/19/23 | 6070.20 | ND | 49.91 | | 6020.29 |
| MW-24 | 11/11/23 | 6070.20 | ND | 49.91 | | 6020.29 |
| | | | | | | |
| MW-25 | 11/05/22 | 6069.28 | ND | 50.54 | | 6018.74 |
| MW-25 | 05/19/23 | 6069.28 | ND | 50.54 | | 6018.74 |
| MW-25 | 11/11/23 | 6069.28 | ND | 50.61 | | 6018.67 |

# TABLE 3 - GROUNDWATER ELEVATION RESULTS

| Johnston Federal #4 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| SVE-1 | 10/26/18 | 6072.44 | ND | 46.38 | | 6026.06 |
| SVE-1 | 05/22/19 | 6072.44 | ND | 46.38 | | 6026.06 |
| SVE-1 | 11/12/19 | 6072.44 | ND | 46.32 | | 6026.12 |
| SVE-1 | 05/17/20 | 6072.44 | ND | 46.39 | | 6026.05 |
| SVE-1 | 11/13/20 | 6072.44 | ND | 46.38 | | 6026.06 |
| SVE-1 | 05/18/21 | 6072.44 | ND | 46.41 | | 6026.03 |
| | | | | | | |
| TW-1 | 10/26/18 | 6071.74 | ND | 50.36 | | 6021.38 |
| TW-1 | 05/22/19 | 6071.74 | ND | 50.42 | | 6021.32 |
| TW-1 | 11/12/19 | 6071.74 | ND | 50.54 | | 6021.20 |
| TW-1 | 05/17/20 | 6071.74 | ND | 50.61 | | 6021.13 |
| TW-1 | 11/13/20 | 6071.74 | ND | 50.72 | | 6021.02 |
| TW-1 | 05/18/21 | 6071.74 | ND | 50.80 | | 6020.94 |
| | | | | | | |
| TW-2 | 10/26/18 | 6071.63 | ND | 50.28 | | 6021.35 |
| TW-2 | 05/22/19 | 6071.63 | ND | 50.35 | | 6021.28 |
| TW-2 | 11/12/19 | 6071.63 | ND | 50.43 | | 6021.20 |
| TW-2 | 05/17/20 | 6071.63 | ND | 50.38 | | 6021.25 |
| TW-2 | 11/13/20 | 6071.63 | ND | 50.62 | | 6021.01 |
| TW-2 | 05/18/21 | 6071.63 | ND | 50.70 | | 6020.93 |

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

# FIGURES





N

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2/16/2021 | SAH | SAH | SRV |

TITLE
**SITE LOCATION**

Stantec

PROJECT
**JOHNSTON FED #4**
**SAN JUAN RIVER BASIN**
**SAN JUAN COUNTY, NEW MEXICO**

FIGURE
**1**

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2023 MAPS\JFed_#4_SITEMAP_2023.mxd

AREA OF FORMER PIT OR EXCAVATION
MW-19
AS-4
ENTERPRISE GAS
MW-23
AS-3
SOLAR PANEL
MW-6
MW-18
AS-7
FORMER EPC PIT EXCAVATED TO 10 FEET
WELLHEAD GAS METERING LOCATION
SVE-2
TW-1
AS-6
SVE-4
AS-13
SVE-8
SVE-1
MW-1
MW-7
MW-3
AS-9
SVE-3
CAPPED 4-INCH CODUIT BELOW GROUND SURFACE
MW-9
AS-5
SVE-7
AS-17
AS-22
MW-2
TW-8
MW-20
AS-12
MW-17
AS-16
SVE-6
AS-21
SVE-12
AS-11
MW-8
TW-2
MW-10
MW-16
AS-20
SVE-5
SVE-11
MW-22
MW-11
Conoco Phillips MW-1
AS-10
TMW-5
AS-15
AS-19
MW-15
MW-25
MW-13
SVE-10
AS-14
Conoco Phillips MW-4
AS-18
MW-21
Conoco Phillips MW-3
MW-14
SVE-9
MW-12
MW-24
GRAVEL
PIPING STUB UP AT GRAVEL PAD
SYSTEM EXPANSION LATERAL TERMINATIONS
SOLAR LNAPL SKIMMER (CONEX)
PROPERTY BOUNDARY TURNS EAST 60 FEET SOUTH

# LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- PROPERTY BOUNDARY
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK
- FENCE/GATE

**EXISTING SVE SYSTEM**

- TRENCH (SHARED)
- TRENCH (UNSHARED)
- 4-INCH UNDERGROUND CONDUIT
- EQUIPMENT PAD AREA

N

SCALE IN FEET
0 25 50

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2024-02-19 | SAH | SAH | SRV |

TITLE:

***SITE PLAN***

PROJECT:
***JOHNSTON FEDERAL #4***
***SAN JUAN RIVER BASIN***
***SAN JUAN COUNTY, NEW MEXICO***

Stantec

Figure No.: 2

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2023 MAPS\JFed_#4_GARM_1SA_2023.mxd

SMA BENCHMARK
ELEV 6070.54'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

BLM PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

HILCORP WATER

HILCORP GAS

MW-4
MW-4 NS

MW-19
B: 21
T: <1.0
E: 1.5
X: <10

MW-6
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-18
B: 7.5
T: <1.0
E: 1.5
X: 10

MW-23
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-1
NS

MW-9
B: 85
T: 6.5
E: 2.2
X: 13

MW-7
NS

MW-3
NS

MW-2
NS

MW-20
B: 110
T: 1.0
E: 2.3
X: 20

MW-8
NS

MW-16
B: 12
T: <1.0
E: <1.0
X: <10

MW-17
B: 6.3
T: <1.0
E: 1.1
X: <10

MW-22
B: 160
T: <2.0
E: 43
X: 440

MW-25
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-10
NS

MW-11
NS

MW-13
B: 2.8
T: <1.0
E: <1.0
X: <10

MW-15
B: 1.6
T: <1.0
E: <1.0
X: <10

MW-21
NS

MW-24
B: <1.0
T: <1.0
E: <1.0
X: <10

DUP-01
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-12
NS

MW-14
NS

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

AERIAL IMAGERY FROM GOOGLE EARTH; DATED 4/6/2019.

# LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

**NOTES:**

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

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
< = BELOW METHOD DETECTION LIMIT

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

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2024-02-19 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ANALYTICAL RESULTS**
**MAY 19, 2023**

PROJECT:

**JOHNSTON FEDERAL #4**
**SAN JUAN RIVER BASIN**
**SAN JUAN COUNTY, NEW MEXICO**

Stantec

Figure No.: 3

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2023 MAPS\JFed_#4_GECM_1SA_2023.mxd

SMA BENCHMARK
ELEV 6070.54'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

BLM PROPERTY

SEXTON PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

HILCORP WATER

HILCORP GAS

MW-4 6021.31
MW-19 6021.45
MW-6 6021.31
MW-18 6021.31
MW-1 6021.39
MW-7 6021.25
MW-3 6021.28
MW-9 6021.42
MW-2 6021.29
MW-20 6021.32
MW-8 6021.26
MW-10 6021.35
MW-11 6021.37
MW-13 6021.41
MW-12 6025.51*
MW-14 6021.42
MW-15 6021.21
MW-16 6021.16
MW-17 6021.18
MW-21 6021.06
MW-22 6021.09
MW-23 6021.22
MW-24 6020.29
MW-25 6018.74

AS-1 AS-2 AS-3 AS-4 AS-5 AS-6 AS-7 AS-8 AS-9 AS-10 AS-11 AS-12 AS-13 AS-14 AS-15 AS-16 AS-17 AS-18 AS-19 AS-20 AS-21 AS-22

SVE-1 SVE-2 SVE-3 SVE-4 SVE-5 SVE-6 SVE-7 SVE-8 SVE-9 SVE-10 SVE-11 SVE-12

TW-1 TW-2 TMW-5

Conoco Phillips MW-1
Conoco Phillips MW-4
Conoco Phillips MW-3

6021.0 6020.0 6019.0

# LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

**NOTES:**

6021.41 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6019.0 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 2024-02-19 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ELEVATION MAP**
**MAY 19, 2023**

PROJECT:

**JOHNSTON FEDERAL #4**
**SAN JUAN RIVER BASIN**
**SAN JUAN COUNTY, NEW MEXICO**

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Figure No.: 4

\\cd1001-c200\CTX-CIFSS\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2023 MAPS\JFed_#4_GARM_2SA_2023.mxd

SMA BENCHMARK
ELEV 6070.54'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

BLM PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

HILCORP WATER

HILCORP GAS

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

MW-4
MW-4
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-19
B: 75
T: <1.0
E: 4.4
X: 41

MW-6
B: <1.0
T: <1.0
E: <1.0
X: <10

DUP-02
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-18
B: 16
T: <1.0
E: 4.0
X: 26

MW-23
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-1
B: 420000
T: 5700
E: 140
X: 3700

MW-2
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-3
B: 370
T: <5.0
E: <5.0
X: <50

MW-7
NS

MW-9
B: 56
T: <1.0
E: 1.3
X: <10

MW-20
B: 420
T: <5.0
E: 15
X: 110

MW-8
NS

MW-16
B: 1200
T: <10
E: 49
X: <100

MW-17
B: 690
T: <10
E: 180
X: 1000

MW-10
B: 1500
T: 9.9
E: 26
X: 71

MW-22
B: 700 H
T: <20 H
E: 190 H
X: 2100 H

MW-25
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-11
B: 19
T: 9.0
E: 73
X: 27

MW-13
B: 7.3
T: <1.0
E: <1.0
X: <10

MW-15
B: 2100
T: <20
E: 72
X: 480

MW-21
NS

MW-12
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-14
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-24
B: 18
T: <1.0
E: 1.6
X: <10

DUP-01
B: 46
T: <1.0
E: 3.7
X: <10

AERIAL IMAGERY FROM GOOGLE EARTH; DATED 4/6/2019.

# LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- G A S — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- AIR SPARGE WELL
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

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

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**
RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
H = SAMPLE WAS PREPPED AND ANALYZED BEYOND THE SPECIFIED HOLDING TIME.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
< = BELOW METHOD DETECTION LIMIT

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

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2024-02-19 | SAH | SAH | SRV |

TITLE:
**GROUNDWATER ANALYTICAL RESULTS**
**NOVEMBER 11, 2023**

PROJECT:
**JOHNSTON FEDERAL #4**
**SAN JUAN RIVER BASIN**
**SAN JUAN COUNTY, NEW MEXICO**

Stantec

Figure No.: 5

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2023 MAPS\JFed_#4_GECM_2SA_2023.mxd

SMA BENCHMARK
ELEV 6070.54'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

BLM PROPERTY

SEXTON PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

HILCORP WATER

HILCORP GAS

MW-4 6021.36

MW-19 6021.50

MW-23 6021.23

MW-18 6021.40

MW-6 6021.41

MW-7 6021.31

MW-1 6021.44

MW-3 6021.34

MW-9 6021.47

MW-2 6021.36

MW-20 6021.38

MW-17 6022.10

6022.0

MW-8 6021.31

MW-10 6021.38

MW-22 6021.13

MW-16 6021.23

MW-11 6021.42

MW-13 6021.45

MW-15 6021.22

MW-21 6021.11

MW-25 6018.67

MW-12 6025.64*

MW-14 6021.48

MW-24 6020.29

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

6021.0

6020.0

6019.0

## LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS — GAS LINE
- W — WATER LINE
- X — FENCE
- UE — UNDERGROUND ELECTRIC
- ABANDONED MONITORING WELL
- CONOCO PHILLIPS MONITORING WELL
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE LNAPL
- TEST WELL LOCATION
- SOIL VAPOR EXTRACTION WELL
- SMA BENCHMARK

**NOTES:**

6021.38 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6019.0 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL, 0.1 FOOT CONTOUR INTERVAL)

DIRECTION OF APPARENT GROUNDWATER FLOW

* GROUNDWATER ELEVATION APPEARS ANOMALOUS AND WAS NOT USED TO PREPARE CONTOURING GROUNDWATER ELEVATION.

LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID

N

SCALE IN FEET

0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 2024-02-19 | SAH | SAH | SRV |

TITLE:

**GROUNDWATER ELEVATION MAP**
**NOVEMBER 11, 2023**

PROJECT:

**JOHNSTON FEDERAL #4**
**SAN JUAN RIVER BASIN**
**SAN JUAN COUNTY, NEW MEXICO**

Stantec

Figure No.: 6

**APPENDICES**

# APPENDIX A

Site History

**Johnston Fed #4**
**Site History**
**San Juan River Basin, New Mexico**

| Date | Source (Regulatory File #) | Event/Action | Description /Comments |
|---|---|---|---|
| 7/29/1952 | 30-045-10130 | Sundry Notice | Notice of intention to drill |
| 10/8/1952 | 30-045-10130 | Log of Oil or Gas Well | Total well depth - 5515 feet bgs |
| 2/13/1953 | 30-045-10130 | Request for (Oil) - (Gas) Allowable | Operator is Anderson-Prichard Oil Corp. Date first oil run to tanks or gas to pipe line 2/2/1953. |
| 2/13/1953 | 30-045-10130 | Certificate of Compliance and Authorization to Transport Oil and Natural Gas | El Paso Natural Gas Company is the authorized transporter. |
| 9/2/1961 | 30-045-10130 | Letter to US Geological Survey | Union Texas Natural Gas Company listed as well owner |
| 2/24/1992 | 30-045-10130 | Data Sheet for Deep Ground Bed Cathodic Protection Wells | Meridian Oil Inc. shown as operator |
| 7/11/1996 | 30-045-10130 | Sundry Notice | Burlington Resources listed as operator |
| 6/2/1997 | nAUTOfAB000305 (3RP-201) | Semiannual groundwater sampling report (EPFS) | Depth to groundwater 48.9 to 50.4 feet bgs at the Johnston Fed #4 site. |
| 8/6/1997 | nAUTOfAB000305 (3RP-201) | NMOCD approval letter for the 6/2/1997 Semiannual Groundwater Report (EPFS) | Approval to modify the reporting schedule to annual. |
| 2/27/1998 | nAUTOfAB000305 (3RP-201) | Phillip Services 1997 Annual Report (for EPFS) | Summarizes pit closure, MW-1 through MW-3 and temporary well installs, LNAPL recovery activities, groundwater sampling. |
| 7/8/1998 | nAUTOfAB000305 (3RP-201) | NMOCD review letter to EPFS for 1997 Annual Report | NMOCD requests EPFS work cooperatively with operators to investigate and remediate contaminated ground water at these sites. |
| 7/9/1998 | 3RP-71 | NMOCD letter to Burlington Resources (BR) | NMOCD requires BR begin implementation of their previously approved pit closure plan. |
| 9/10/1998 | 3RP-71 | NMOCD review letter for BR 8/6/98 Groundwater Investigation Plan | |

**Johnston Fed #4**
**Site History**
**San Juan River Basin, New Mexico**

| | | | |
|---|---|---|---|
| 3/31/1999 | nAUTOfAB000305 (3RP-201) | Phillip Services 1998 Annual Report (for EPFS) | LNAPL recovery from MW-1. |
| 7/29/1999 | 3RP-71 | BR letter to NMOCD (included Pit Remediation and Closure Reports) | Soil excavation, pit closures, temp well installations. |
| 3/24/2000 | nAUTOfAB000305 (3RP-201) | Phillip Services 1999 Annual Report (for EPFS) | LNAPL recovery and groundwater sampling activities. |
| 3/29/2000 | 3RP-71 | Burlington Resources 1999 Annual Report | Quarterly groundwater monitoring continued through 1999. |
| 2/26/2001 | nAUTOfAB000305 (3RP-201) | Phillip Services 2000 Annual Report (for EPFS) | LNAPL monitoring. |
| 3/27/2001 | 3RP-71 | Burlington Resources 2000 Annual Report | Quarterly groundwater monitoring. |
| 7/18/2001 | nAUTOfAB000305 (3RP-201) | NMOCD review letter for EPFS 2000 Annual Report | NMOCD requests that EPFS work cooperatively with the operator to investigate and remediate contaminated groundwater. |
| 2/28/2002 | nAUTOfAB000305 (3RP-201) | MWH 2001 Annual Report (for EPFS) | Quarterly LNAPL recovery. Annual sampling of MW-2 conducted. |
| 2/28/2003 | nAUTOfAB000305 (3RP-201) | MWH 2002 Annual Report (for EPFS) | Quarterly LNAPL recovery and annual groundwater sampling. |
| 4/3/2003 | nAUTOfAB000305 (3RP-201) | NMOCD review letter for BR 2/28/2003 2002 Annual Report | NMOCD requires EPFS install additional monitoring wells to delineate plume. |
| 4/14/2003 | 3RP-71 | Burlington Resources 2002 Annual Report | Summary of 2000, 2001, and 2002 groundwater sampling. |
| 2/26/2004 | nAUTOfAB000305 (3RP-201) | MWH 2003 Annual Report (for EPFS) | Quarterly LNAPL recovery. Annual groundwater sampling. |
| 2/1/2005 | nAUTOfAB000305 (3RP-201) | MWH 2004 Annual Report (for EPFS) | Quarterly LNAPL recovery and annual groundwater sampling. |
| 3/31/2005 | 3RP-71 | Burlington Resources 2004 Annual Report | Quarterly groundwater sampling and LNAPL monitoring. |
| 3/2006 | nAUTOfAB000305 (3RP-201) | MWH 2005 Annual Report (for EPTPC) | Quarterly LNAPL recovery and annual groundwater monitoring. |
| 3/2007 | nAUTOfAB000305 (3RP-201) | MWH Final 2006 Annual Report (for EPTPC) | Quarterly LNAPL recovery and annual groundwater sampling. |

**Johnston Fed #4**
**Site History**
**San Juan River Basin, New Mexico**

| | | | |
|---|---|---|---|
| 4/15/2007 | 3RP-71 | Burlington Resources 2006 Annual Report | LNAPL recovery and groundwater sampling. |
| 3/27/2008 | 3RP-71 | Tetra Tech 2007 Annual Report (for ConocoPhillips) | Quarterly groundwater sampling. |
| 4/2/2008 | nAUTOfAB000305 (3RP-201) | MWH 2007 Annual Report (for EPTPC) | Installation of MW-4 and TMW-5. Quarterly LNAPL recovery and annual groundwater monitoring. |
| 2/28/2009 | nAUTOfAB000305 (3RP-201) | MWH 2008 Annual Report (for EPTPC) | Quarterly LNAPL recovery and annual groundwater monitoring. |
| 12/2009 | 3RP-71 | Tetra Tach 2008 Annual Report (for ConocoPhillips) | Three additional monitoring wells (MW-2, MW-3, and MW-4) installed. Quarterly groundwater sampling. |
| 4/16/2010 | nAUTOfAB000305 (3RP-201) | MWH 2009 Annual Report (for EPTPC) | Annual groundwater sampling. |
| 5/2010 | 3RP-71 | Tetra Tech 2009 Annual Report (for ConocoPhillips) | Geologic cross section was included. Annual groundwater monitoring. |
| 3/2/2011 | nAUTOfAB000305 (3RP-201) | MWH 2010 Annual Report (for EPTPC) | Annual groundwater sampling. |
| 6/9/2011 | 3RP-71 | Tetra Tech 2010 Annual Report (for ConocoPhillips) | Quarterly groundwater sampling. |
| 3/2012 | 3RP-71 | Conestoga-Rovers & Associates September 2011 Annual Report (for ConocoPhillips) | Site consulting transferred from Tetra Tech to CRA. Annual groundwater monitoring. |
| 8/16/2012 | nAUTOfAB000305 (3RP-201) | MWH 2011 Annual Report (for EPCGP) | Annual sampling at MW-1 through MW-4, and TMW-5. EPCGP will install a new monitoring well east of MW-3. |
| 2/19/2013 | 3RP-71 | CRA September 2012 Annual Report (for ConocoPhillips) | Annual groundwater monitoring. CRA recommends additional downgradient monitoring well for the purpose of further delineating the Site. |
| 10/22/2013 | nAUTOfAB000305 (3RP-201) | MWH 2013 Monitoring Well Installation Workplan (for EPCGP) | Seven monitoring wells will be installed at the Site. |
| 3/4/2014 | nAUTOfAB000305 (3RP-201) | MWH 2013 Annual Report (for EPCGP) | Seven new wells (MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12) installed. Soil samples were collected from the borings for MW-6 through MW-12. |

**Johnston Fed #4**
**Site History**
**San Juan River Basin, New Mexico**

| | | | |
|---|---|---|---|
| 3/21/2014 | 3RP-71 | CRA 2013 Annual Report (for ConocoPhillips) | Annual groundwater sampling, MDPE events. |
| 6/9/2014 | nAUTOfAB000305 (3RP-201) | MWH 2014 Monitoring Well Installation Work Plan (for EPCGP) | Eight additional monitoring wells will be installed. |
| 2/2/2015 | nAUTOfAB000305 (3RP-201) | MWH 2014 Annual Groundwater Report (for EPCGP) | Monitoring wells MW-13 through MW-20 were installed, temporary monitoring well TMW-5 was plugged and abandoned, semi-annual groundwater monitoring. |
| 4/16/2015 | 3RP-71 | CRA 2014 Annual Groundwater Monitoring Report (for ConocoPhillips) | MDPE event, annual groundwater sampling. |
| 2/16/2016 | nAUTOfAB000305 (3RP-201) | MWH 2015 Annual Groundwater Report (for EPCGP) | LNAPL monitoring and annual groundwater monitoring, soil boring SB-1 was advanced in the former pit. |
| 1/4/2016 | 3RP-71 | GHD Services Inc. 2015 Annual Groundwater Monitoring Report (for ConocoPhillips) | CRA (now GHD) provided oversight for MDPE event conducted from MW-1 from April 20 to April 23, 2015. Annual groundwater monitoring. |
| 3/20/2017 | nAUTOfAB000305 (3RP-201) | Stantec 2016 Annual Groundwater Report (for EPCGP) | LNAPL recovery, semi-annual groundwater monitoring, and MDPE event. |
| 1/30/2017 | 3RP-71 | GHD 2016 Annual Groundwater Monitoring Report (for ConocoPhillips) | Annual groundwater monitoring. |
| 6/2/2017 | nAUTOfAB000305 (3RP-201) | NMOCD review letter for 2016 Annual Report | Remediation plan requested. |
| 6/29/2017 | nAUTOfAB000305 (3RP-201) | Stantec Work Plan for LNAPL Recovery Activates (for EPCGP) | MDPE activities proposed. |
| 7/5/2017 | nAUTOfAB000305 (3RP-201) | NMOCD approval letter for the June 29, 2017 Work Plan | MDPE approved. |
| 7/19/2017 | nAUTOfAB000305 (3RP-201) | Response letter from EPCGP to NMOCD | No further delineation was planned at this time. |

**Johnston Fed #4**
**Site History**
**San Juan River Basin, New Mexico**

| | | | |
|---|---|---|---|
| 7/21/2017 | 30-045-10130 | Change of Operator Name | New Operator: Hilcorp Energy Company |
| 12/13/2017 | 3RP-71 | GHD 2017 Remediation and Annual Groundwater Monitoring Report (for Hilcorp Energy) | MDPE event conducted, annual groundwater monitoring. |
| 3/28/2018 | nAUTOfAB000305 (3RP-201) | Stantec 2017 Annual Groundwater Report (for EPCGP) | MDPE events, LNAPL recovery and semi-annual groundwater monitoring. |
| 6/11/2018 | Not in NMOCD files | Stantec AS/SVE Test Work Plan (for EPCGP) | Work plan proposed installing AS and SVE wells and run AS/SVE test. |
| 3/28/2019 | Not in NMOCD files | Stantec 2018 Annual Groundwater Report (for EPCGP) | Semi-annual groundwater monitoring, one SVE well and 2 AS test wells installed and feasibility testing completed, LNAPL recovery. |
| 4/1/2020 | Not in NMOCD files | Stantec 2019 Annual Groundwater Report (for EPCGP) | Semi-annual groundwater monitoring and LNAPL recovery. |
| 4/8/2020 | Not in NMOCD files | Stantec Work Plan for Monitoring Wells and AS/SVE Wells (for EPCGP) | Installation of three additional monitoring wells (MW-21 through MW-23), seven additional SVE wells and 20 AS wells proposed. |
| 4/8/2021 | Not in NMOCD files | Stantec 2020 Annual Groundwater Report (for EPCGP) | Annual groundwater monitoring, quarterly LNAPL recovery, installation of three monitoring wells (MW-21 through MW-23), seven SVE wells, and twenty AS wells. |
| 5/25/2021 | Not in NMOCD files | Stantec Work Plan for AS/SVE System (for EPCGP) | Proposed AS/SVE system elements design and installation. |
| 3/20/2022 | Not in NMOCD files | Stantec 2021 Annual Groundwater Report (for EPCGP) | Semi-annual groundwater monitoring, quarterly LNAPL recovery, |
| 8/19/2022 | Not in NMOCD files | Stantec LNAPL Skimmer Installation Work Plan | CONEX-based solar-powered LNAPL recovery skimmer for MW-21 |
| 9/28/2022 | Not in NMOCD files | Stantec Work Plan for Monitoring Wells and SVE Wells (for EPCGP) | Proposed installation of two additional monitoring wells (MW-24 and MW-25) and four SVE wells. |

**Johnston Fed #4**
**Site History**
**San Juan River Basin, New Mexico**

| | | | |
|---|---|---|---|
| 3/22/2023 | Not in NMOCD files | Stantec 2022 Annual Groundwater Report (for EPCGP) | Installation on MW-24 and MW-25 and 4 SVE wells; LNAPL skimmer system installation at MW-21, semi-annual groundwater monitoring, quarterly LNAPL recovery. |
| 11/22/2023 | Not in NMOCD files | Stantec 2023 SVE System Installation Work Plan | Installation and O&M of thermal-oxidizer and SVE system. |

# APPENDIX B

NMOCD Notification of Site Activities

**From:** Varsa, Steve
**To:** nelson.valez@state.nm.us
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Bcc:** Varsa, Steve
**Subject:** El Paso CGP Company - Notice of upcoming product recovery activities
**Date:** Wednesday, August 16, 2023 1:56:00 PM

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Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 8/27/2023 |
| Fields A#7A | nAUTOfAB000176 | 8/30/2023 |
| Fogelson 4-1 | nAUTOfAB000192 | 8/31/2023 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 8/31/2023 |
| James F. Bell #1E | nAUTOfAB000291 | 8/25/2023 |
| Johnston Fed #4 | nAUTOfAB000305 | 8/30/2023 |
| K27 LDO72 | nAUTOfAB000316 | 8/31/2023 |
| State Gas Com N #1 | nAUTOfAB000668 | 8/29/2023 |

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

Thank you,
Steve

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

**From:** Varsa, Steve
**To:** nelson.valez@state.nm.us
**Subject:** FW: El Paso CGP Company - Notice of upcoming product recovery activities
**Date:** Wednesday, March 22, 2023 9:51:09 PM

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**From:** Varsa, Steve <steve.varsa@stantec.com>
**Sent:** Wednesday, March 22, 2023 9:33 PM
**To:** nelson.valez@state.nm
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Wiley, Joe <joe_wiley@kindermorgan.com>
**Subject:** El Paso CGP Company - Notice of upcoming product recovery activities

Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 3/28/2023 |
| Fields A#7A | nAUTOfAB000176 | 3/29/2023 |
| Fogelson 4-1 | nAUTOfAB000192 | 3/29/2023 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 3/28/2023 |
| James F. Bell #1E | nAUTOfAB000291 | 3/29/2023 |
| Johnston Fed #4 | nAUTOfAB000305 | 3/30/2023 |
| K27 LDO72 | nAUTOfAB000316 | 3/28/2023 |
| Lateral L-40 | nAUTOfAB000335 | 3/29/2023 |
| State Gas Com N #1 | nAUTOfAB000668 | 3/29/2023 |

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

Thank you,
Steve

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

**From:** Varsa, Steve
**To:** nelson.valez@state.nm.us
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities
**Date:** Friday, May 12, 2023 9:54:16 PM

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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 | 5/20/2023 |
| Fields A#7A | nAUTOfAB000176 | 5/21/2023 |
| Fogelson 4-1 | nAUTOfAB000192 | 5/18/2023 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 5/17/2023 |
| GCU Com A #142E | nAUTOfAB000219 | 5/21/2023 |
| James F. Bell #1E | nAUTOfAB000291 | 5/18/2023 |
| Johnston Fed #4 | nAUTOfAB000305 | 5/19/2023 |
| Johnston Fed #6A | nAUTOfAB000309 | 5/19/2023 |
| K27 LDO72 | nAUTOfAB000316 | 5/20/2023 |
| Knight #1 | nAUTOfAB000324 | 5/17/2023 |
| Lateral L 40 Line Drip | nAUTOfAB000335 | 5/21/2023 |
| Sandoval GC A #1A | nAUTOfAB000635 | 5/19/2023 |
| Standard Oil Com #1 | nAUTOfAB000666 | 5/20/2023 |
| State Gas Com N #1 | nAUTOfAB000668 | 5/22/2023 |

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Wednesday, May 17, 2023.

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

Thank you,
Steve

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

**From:** Varsa, Steve
**To:** nelson.valez@state.nm.us
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities
**Date:** Thursday, November 2, 2023 6:17:33 AM

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Hi Nelson -

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

| Site Name | Incident Number | Sample Date |
|---|---|---|
| Canada Mesa #2 | nAUTOfAB000065 | 11/12/2023 |
| Fields A#7A | nAUTOfAB000176 | 11/15/2023 |
| Fogelson 4-1 | nAUTOfAB000192 | 11/8/2023 |
| Gallegos Canyon Unit #124E | nAUTOfAB000205 | 11/9/2023 |
| GCU Com A #142E | nAUTOfAB000219 | 11/9/2023 |
| James F. Bell #1E | nAUTOfAB000291 | 11/15/2023 |
| Johnston Fed #4 | nAUTOfAB000305 | 11/11/2023 |
| Johnston Fed #6A | nAUTOfAB000309 | 11/11/2023 |
| K27 LDO72 | nAUTOfAB000316 | 11/12/2023 |
| Knight #1 | nAUTOfAB000324 | 11/7/2023 |
| Lateral L 40 Line Drip | nAUTOfAB000335 | 11/16/2023 |
| Sandoval GC A #1A | nAUTOfAB000635 | 11/11/2023 |
| Standard Oil Com #1 | nAUTOfAB000666 | 11/12/2023 |
| State Gas Com N #1 | nAUTOfAB000668 | 11/10/2023 |

We also plan to conduct quarterly operation and maintenance activities on the Knight #1 air sparge/soil vapor extraction system (Incident number nAUTOAB000324) on Tuesday, November 7, 2023.

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

Thank you,
Steve

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

**From:** Varsa, Steve
**To:** Buchanan, Michael, EMNRD
**Cc:** Bratcher, Mike, EMNRD; Wiley, Joe
**Subject:** nAUTOfB000305 - Johnston Federal #4 - notice of upcoming activities
**Date:** Wednesday, November 22, 2023 9:03:35 AM

---

Hi Michael – on behalf of El Paso CGP Company, Stantec is providing this notice of additional remediation piping installation activities, and installation of a generator at the subject site, beginning on Tuesday, November 28, 2023. These activities are part of upcoming soil vapor extraction (SVE) remediation activities planned for the site, covered under a remediation work plan submitted in the e-permitting portal.

Separate notifications will be provided when the SVE remediation system is to be installed and started at the site, expected to occur after the beginning of 2024.

Please contact Joseph Wiley, Remediation Manager for EPCGP, or me if you have any questions.

Thank you,
Steve

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

# APPENDIX C

Daily Construction Forms

Stantec

# DAILY FIELD REPORT
## Gas line/Generator and SVE Piping Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 11/28/23 Tuesday
WEATHER: sunny, 15 to 35 F
PROJECT No.: 193709897

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Carl Lehman, Stantec, project oversight
Lionel Curley, Halo, operator
Eric Alcor, Halo, laborer
Shane Pribble, Halo, project manager/foreman
Daray Barber, Halo, overnight security

**VISITORS (name, company)**

none.

**CONSTRUCTION EQUIPMENT (type, model)**

Cat backhoe, 420D

**TASKS PERFORMED**

Daily Health and Safety Meetings, discuss general project logistics
Layout and inventory SVE piping and connection fittings and review shut-in/pressure testing procedures
Trenching for SVE lateral connections
Excavation around SVE wellheads
Lay HDPE pipe in trench

**Lengths of Trenching/Piping/Fencing (linear feet)**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | Percent of Project Scope of Work/Bid |
|---|---|---|---|---|---|
| Trenching | 250 (LS) | 140 | foot | 140 | 56% |
| SVE Piping | 500 (LS) | 400 | foot | 400 | 80% |
| Fencing | 200 (LS) | 0 | foot | 0 | 0% |
| Gas Supply line | 130 (LS) | 0 | foot | 0 | 0% |

Note: LS = Lump Sum Total Amount

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Imported Road Stone | Lump Sum | 0 | Yards | 0 | |
| Imported Clean Backfill Soil | CO | 0 | Yards | 0 | |

Note: CO = Not included in Bid Amount and Subject to Change Order

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

N/A

**NEXT DAY'S PLANNED ACTIVITIES**

HDPE welding, SVE well connections, and pressure testing, locate and mark SVE/AS piping in wellfield

**PREPARED BY:** Carl Lehman

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Gas line/Generator and SVE Piping Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 11/29/23 Wednesday
WEATHER: partly cloudy, 20 to 40 F
PROJECT No.: 193709897

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Carl Lehman, Stantec, project oversight
Lionel Curley, Halo, operator
Eric Alcor, Halo, laborer
Shane Pribble, Halo, project manager/foreman
Daray Barber, Halo, overnight security
Steve Varsa, Stantec, Project Manager
Robert (Bob) Lutgen, Halo, laborer

**VISITORS (name, company)**

None

**CONSTRUCTION EQUIPMENT (type, model)**

Cat backhoe, 420D

**TASKS PERFORMED**

Daily Health and Safety Meetings
HDPE welding
HDPE pressure tests (all passed)
Install tracer wire on SVE laterals
Locate and mark AS & SVE lines
Mark out gas line trace and go over placement/orientation of thermox and generator

**Lengths of Trenching/Piping/Fencing (linear feet)**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | Percent of Project Scope of Work/Bid |
|---|---|---|---|---|---|
| Trenching | 250 (LS) | 0 | foot | 140 | 56% |
| SVE Piping | 500 (LS) | 0 | foot | 400 | 80% |
| Fencing | 200 (LS) | 0 | foot | 0 | 0% |
| Gas Supply line | 130 (LS) | 0 | foot | 0 | 0% |

Note: LS = Lump Sum Total Amount

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Imported Road Stone | Lump Sum | 5 | Yards | 5 | Site/Local Materials Vendor |
| Imported Clean Backfill Soil | CO | 0 | Yards | 0 | |

Note: CO = Not included in Bid Amount and Subject to Change Order

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Additional brush needs to be cleared around generator/gas line stick-up area, and gravel these areas
Jersey barricades needed for for around gas line stick-up and future generator location
Potential for snow on Thursday

**NEXT DAY'S PLANNED ACTIVITIES**

Connect SVE laterals to wellheads
Backfill SVE lateral trench
Fabricate gas supply line

**PREPARED BY:** Carl Lehman

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Gas line/Generator and SVE Piping Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 11/30/23 Thursday
WEATHER: partly cloudy, 25 to 45 F
PROJECT No.: 193709897

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Carl Lehman, Stantec, project oversight
Lionel Curley, Halo, operator
Eric Alcor, Halo, laborer
Shane Pribble, Halo, project manager/foreman
Daray Barber, Halo, overnight security
Steve Varsa, Stantec, Project Manager
Montell Barber, Halo, welder

**VISITORS (name, company)**

Tim, Hilcorp
Malcolm, Hilcorp
Josh, Hilcorp
Ramone, Hilcorp

**CONSTRUCTION EQUIPMENT (type, model)**

Cat backhoe, 420D

**TASKS PERFORMED**

Daily Health and Safety Meetings
Install SVE wellhead connections
Backfilling SVE lateral trench, install SVE vaults, and mark buried line
Fabrication of gas line
Clearing and grading for generator pad, and start laying out gravel

**Lengths of Trenching/Piping/Fencing (linear feet)**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | Percent of Project Scope of Work/Bid |
|---|---|---|---|---|---|
| Trenching | 250 (LS) | 0 | foot | 140 | 56% |
| SVE Piping | 500 (LS) | 0 | foot | 400 | 80% |
| Fencing | 200 (LS) | 0 | foot | 0 | 0% |
| Gas Supply line | 130 (LS) | 100 | foot | 100 | 77% |

Note: LS = Lump Sum Total Amount

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Imported Road Stone | Lump Sum | 0 | Yards | 5 | Site/Local Materials Vendor |
| Imported Clean Backfill Soil | CO | 0 | Yards | 0 | |

Note: CO = Not included in Bid Amount and Subject to Change Order

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

1) The location and alignment of subsurface piping in the vicinity of the gas meter connection on Hilcorp's pad was not marked, although piping and markers nearby suggested a line was present. Hilcorp and Harvest Pipeline were contacted to confirm clearance to dig. Hilcorp field staff visited the site to confirm ownership and location of buried piping and approve dig location. It was agreed to modify the gas line and stub up approximately 6 feet from the takeoff and go overhead to the takeoff, to prevent encroachment and a potential underground crossing of the Hilcorp line. Hilcorp agreed to placement of Jersey barriers around the gas line stubup. Hilcorp plans to be on-site tomorrow morning to observe trenching and gas line installation. 2) The generator will not be brought to the site during this event and instead will be delivered when the remediation equipment is ready for deployment at the site. The associated meter for the generator also will not be installed at this time. 3) Halo is to deliver and install seven Jersey barricades to protect the gas line stub-ups and generator pad, and provide additional gravel to establish a fire break around the gas line and future remediation equipment. 4) The Ditch Company has been identified as a ISN-member herbicide application contractor.

**NEXT DAY'S PLANNED ACTIVITIES**

Excavate trench for gas line
Install and complete fabrication of gas line, and above-grade valving and "T's", and nitrogen test
Complete grading and construction of generator pad
Modify fencing to surround generator pad and newly connected SVE wells
Survey SVE and AS wells, conveyance piping, fencing, and other installed features

**PREPARED BY:** Carl Lehman

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Gas line/Generator and SVE Piping Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 12/1/23 Friday
WEATHER: cloudy, snowing, 25 to 40 F
PROJECT No.: 193709897

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Carl Lehman, Stantec, project oversight
Lionel Curley, Halo, operator
Eric Alcor, Halo, laborer
Shane Pribble, Halo, project manager/foreman
Steve Varsa, Stantec, Project Manager
Montell Barber, Halo, welder
Bob Lutgen, Halo, operator
Eric Hikcock, SMA, surveyor

**VISITORS (name, company)**

Tim Krenlick, Hilcorp

**CONSTRUCTION EQUIPMENT (type, model)**

Cat backhoe, 420D

**TASKS PERFORMED**

Daily Health and Safety Meetings
Excavate trench between Hilcorp pad and generator pad
Complete fabrication of gas line, line purging and pressure test, and install in trench
Backfill gas line trench with layer of gravel around pipe and caution tape, and excavated soils to grade
Place concrete barriers around gas line stub-up
Add additional gravel around equipment pad and grade
Place T-posts by AS/SVE wells and begin expanding fenced-in area
Begin surveying remdiation wells, recently installed monitoring wells, and buried piping

**Lengths of Trenching/Piping/Fencing (linear feet)**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | Percent of Project Scope of Work/Bid |
|---|---|---|---|---|---|
| Trenching | 250 (LS) | 110 | foot | 250 | 100% |
| SVE Piping | 500 (LS) | 0 | foot | 400 | 80% |
| Fencing | 200 (LS) | 0 | foot | 0 | 0% |
| Gas Supply line | 130 (LS) | 10 | foot | 110 | 85% |

Note: LS = Lump Sum Total Amount

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Imported Road Stone | Lump Sum | 0 | Yards | 5 | Site/Local Materials Vendor |
| Imported gravel | CO | 10 | Yards | 10 | Site/Local Materials Vendor |
| Imported Clean Backfill Soil | CO | 0 | Yards | 0 | |

Note: CO = Not included in Bid Amount and Subject to Change Order

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Stantec is working with Halo to have El Paso CGP Company-labelled gas line markers installed.

**NEXT DAY'S PLANNED ACTIVITIES**

Install fencing and gates around off-pad remediation well field
Cut and cap 4" conduit
Assemble gas piping instrumentation
Cleanup and demobilization

**PREPARED BY:** Carl Lehman

**REVIEWED BY:** Steve Varsa

Stantec

# DAILY FIELD REPORT
## Gas line/Generator and SVE Piping Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 12/2/23 Saturday
WEATHER: partly cloudy, 25 to 40 F
PROJECT No.: 193709897

Everyone Safely Off Site: Yes

**ON-SITE PERSONNEL (name, company, project role)**

Carl Lehman, Stantec, project oversight
Lionel Curley, Halo, operator
Eric Alcor, Halo, laborer

**VISITORS (name, company)**

None

**CONSTRUCTION EQUIPMENT (type, model)**

Cat backhoe, 420D

**TASKS PERFORMED**

Daily Health and Safety Meetings
Cut below grade and cap 4" conduit, mark location of capped ends with MW lids for future reference
Plug gas line fittings
Mark remedial wells with t-posts and caps
Install fencing around off-pad remediation wellfield and equipment pads
Remove debris and leftover materials
Gas line assembly moved to Sierra Oilfield's shop
Demob from site

**Lengths of Trenching/Piping/Fencing (linear feet)**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | Percent of Project Scope of Work/Bid |
|---|---|---|---|---|---|
| Trenching | 250 (LS) | 0 | foot | 250 | 100% |
| SVE Piping | 500 (LS) | 0 | foot | 400 | 80% |
| Fencing | 200 (LS) | 200 | foot | 200 | 100% |
| Gas Supply line | 130 (LS) | 0 | foot | 110 | 85% |

Note: LS = Lump Sum Total Amount

**LOADS of MATERIAL TRANSPORTED**

| TYPE | BID AMOUNT | DAILY NUMBER | UNIT / OTHER | CUMULATIVE TOTALS | DESTINATION/SOURCE |
|---|---|---|---|---|---|
| Imported Road Stone | Lump Sum | 0 | Yards | 5 | Site/Local Materials Vendor |
| Imported gravel | CO | 0 | Yards | 10 | Site/Local Materials Vendor |
| Imported Clean Backfill Soil | CO | 0 | Yards | 0 | |

Note: CO = Not included in Bid Amount and Subject to Change Order

**PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)**

Stantec working with Halo to have El Paso CGP Company-labelled gas line markers

**NEXT DAY'S PLANNED ACTIVITIES**

None.

**PREPARED BY:** Carl Lehman

**REVIEWED BY:** Steve Varsa

# APPENDIX D

Photolog

Stantec

# Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso GCP Company** | **Project:** | **Gas Line/Generator and SVE Piping Installation** |
| **Site Name:** | **Johnston Federal #4** | **Site Location:** | **San Juan Rier Basin, NM** |

| | |
|---|---|
| **Photograph ID:** 1 |  |
| **Photo Location:** Johnston Federal #4 Site | |
| **Direction:** Northeast | |
| **Survey Date:** 11/28/2023 | |
| **Comments:** Photo shows open trench going to two Soil Vapor Extraction wells. Trench to be used for High-Density Polyethylene (HDPE) piping transference. | |
| **Photograph ID:** 2 |  |
| **Photo Location:** Johnston Federal #4 Site | |
| **Direction:** N/A | |
| **Survey Date:** 11/29/2023 | |
| **Comments:** Pressure testing apparatus. Each line is isolated, pressurized, and monitored for leaks during installation. | |

Stantec

# Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso GCP Company** | **Project:** | **Gas Line/Generator and SVE Piping Installation** |
| **Site Name:** | **Johnston Federal #4** | **Site Location:** | **San Juan Rier Basin, NM** |

| | |
|---|---|
| **Photograph ID:** 3<br>**Photo Location:** Johnston Federal #4 Site<br>**Direction:** South-Southeast<br>**Survey Date:** 12/1/2023<br>**Comments:** Fabricated natural gas line in trench with pipe bedding. |  |
| **Photograph ID:** 4<br>**Photo Location:** Johnston Federal #4 Site<br>**Direction:** West-Southwest<br>**Survey Date:** 12/1/2023<br>**Comments:** Natural gas line stickup protected by jersey barriers. |  |

Stantec

# Photographic Log

| | | | |
|---|---|---|---|
| **Client:** | **El Paso GCP Company** | **Project:** | **Gas Line/Generator and SVE Piping Installation** |
| **Site Name:** | **Johnston Federal #4** | **Site Location:** | **San Juan Rier Basin, NM** |

**Photograph ID:** 5

**Photo Location:**
Johnston Federal #4 Site

**Direction:**
West

**Survey Date:**
11/30/2023

**Comments:**
Trench spoils used as backfill for HDPE piping. Lines are bundled in the trench and then isolated from traffic by fencing.

**Photograph ID:** 6

**Photo Location:**
Johnston Federal #4 Site

**Direction:**
North

**Survey Date:**
12/2/2023

**Comments:**
View of remediation pad with additional gravel area to place natural gas generator. Gas line stub up with jersey barriers also visible.

# APPENDIX E

Waste Disposal Documentation

envirotech

# Bill of Lading

MANIFEST # 78476
GENERATOR Kinder morgan
POINT OF ORIGIN ELPaso pit sites
TRANSPORTER Envirotech
DATE 03/31/23 JOB # 14073-0073

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 | Tankbottoms | | | 1 | | | 991 | 1130 | byGayR |
| | | | | | 1 | | | | | |
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| RESULTS | | | LANDFARM EMPLOYEE | NOTES |
|---|---|---|---|---|
| -251 | CHLORIDE TEST | 1 | Cory Robinson | |
| | 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



SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 78476

# CHLORIDE TESTING / PAINT FILTER TESTING

DATE 03/31/23 TIME 1130

Attach test strip here

CUSTOMER Kinder Morgan

SITE ELPASO Pit Sites

DRIVER by Gary Robinson

SAMPLE Soil Straight _____ With Dirt X

**CHLORIDE TEST** -281 mg/Kg

ACCEPTED YES X NO _____

**PAINT FILTER TEST** Time started 1130 Time completed 1142

PASS YES X NO _____

SAMPLER/ANALYST Cory Robinson

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

# envirotech

# Bill of Lading

MANIFEST # 79427
GENERATOR Kinder Morgan (picked up from)
POINT OF ORIGIN Bio Vista Comp Station *
TRANSPORTER Envirotech
DATE 5/22/2023 JOB # 14073-0073

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 | Contaminated Water | | | | 1 | | 992/705 | 1550 | |
| | | | | | | 1 | | | | |
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| | | | | | | | | | SCANNED | |

| RESULTS | | |
|---|---|---|
| -251 | CHLORIDE TEST | 1 |
| | CHLORIDE TEST | |
| | CHLORIDE TEST | |
| Pass | PAINT FILTER TEST | 1 |

LANDFARM EMPLOYEE

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

NOTES
* From San Juan River Plant, Blanco N. Flare, and numerous pit sites.

**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 Sean Cleary Phone (515) 557-0109

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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 79427

# CHLORIDE TESTING / PAINT FILTER TESTING

DATE 5/22/2023 TIME 1550

Attach test strip here

CUSTOMER Kinder Morgan

SITE Rio Vista Comp Station SJ River Plant Blanco N Flare Aluminosis Pits sites

DRIVER [redacted]

SAMPLE Soil Straight _____ With Dirt ✓

**CHLORIDE TEST** -281 mg/Kg

ACCEPTED YES ✓ NO _____

**PAINT FILTER TEST** Time started 1550 Time completed 1600

PASS YES ✓ NO _____

SAMPLER/ANALYST [redacted]

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

envirotech

# Bill of Lading

MANIFEST # 81123 8 pit sites
GENERATOR Kinder Morgan
POINT OF ORIGIN Rio Vista Comp
TRANSPORTER Envirotech
DATE 09/01/23 JOB # 14073-0073

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 | Tank Bottoms Cont Liquid | | | 1 | | — | 958 | 1025 | |
| | | | | | 1 | | | | | |
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| RESULTS | | |
|---|---|---|
| -272 | CHLORIDE TEST | 1 |
| | CHLORIDE TEST | |
| | CHLORIDE TEST | |
| Pass | PAINT FILTER TEST | 1 |

LANDFARM EMPLOYEE Cory Robinson

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

NOTES

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

0073

envirotech

BOL# 91123

# CHLORIDE TESTING / PAINT FILTER TESTING

DATE 09/01/23 TIME 1025 Attach test strip here

CUSTOMER ~~Rio Vista Co~~ Kindermorgan

SITE Rio Vista Comp

DRIVER ~~Santos Fuentes~~

SAMPLE Soil Straight _____ With Dirt X

**CHLORIDE TEST** 272 mg/Kg

ACCEPTED YES X NO _____

**PAINT FILTER TEST** Time started 1025 Time completed 1035

PASS YES X NO _____

SAMPLER/ANALYST Gary Robinson


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

envirotech

# Bill of Lading

MANIFEST # 82577
GENERATOR El Paso
POINT OF ORIGIN See the C-138 for list of sites
TRANSPORTER Envirotech
DATE 11/16/23 JOB # 14073-0081

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 | B'F | Tank bottoms | | | 1 | — | — | 725 | 1430 | |
| | | | | | 1 | | | | | |
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| RESULTS | | | LANDFARM EMPLOYEE | NOTES |
|---|---|---|---|---|
| -272 | CHLORIDE TEST | 1 | | |
| | 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

SAN JUAN PRINTING 2021 407-3

envirotech

BOL# 82577

# CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11/16/23 TIME 1430

Attach test strip here


CUSTOMER El Paso

SITE See Bol 82577

DRIVER Stored by Gomez

SAMPLE Soil Straight _____ With Dirt X

**CHLORIDE TEST** 272 mg/Kg

ACCEPTED YES X NO _____

**PAINT FILTER TEST** Time started 1430 Time completed 1441

PASS YES X NO _____

SAMPLER/ANALYST _____

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

# APPENDIX F

Groundwater Analytical Lab Reports

Stantec

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/13/2023 5:51:43 PM Revision 1

## JOB DESCRIPTION

Johnston Federal #4.00

## JOB NUMBER

400-238095-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

# Eurofins Pensacola

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization

Generated
6/13/2023 5:51:43 PM
Revision 1

Authorized for release by
Isabel Enfinger, Project Manager I
isabel.enfinger@et.eurofinsus.com
Designee for
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Laboratory Job ID: 400-238095-1

# Table of Contents

# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Job ID: 400-238095-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-238095-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 5/23/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4º C.

**GC/MS VOA**
Method 8260D: The matrix spike (MS) recoveries for analytical batch 400-626453 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The matrix spike (MS) recovery for analytical batch 400-627229 was outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-22 (400-238095-12). Elevated reporting limits (RLs) are provided.

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

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

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: TRIP BLANK — Lab Sample ID: 400-238095-1

No Detections.

## Client Sample ID: DUP-01 — Lab Sample ID: 400-238095-2

No Detections.

## Client Sample ID: MW-6 — Lab Sample ID: 400-238095-3

No Detections.

## Client Sample ID: MW-9 — Lab Sample ID: 400-238095-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 85 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Toluene | 6.5 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 2.2 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Xylenes, Total | 13 | | 10 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-13 — Lab Sample ID: 400-238095-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.8 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-15 — Lab Sample ID: 400-238095-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1.6 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-16 — Lab Sample ID: 400-238095-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 12 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-17 — Lab Sample ID: 400-238095-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 6.3 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 1.1 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-18 — Lab Sample ID: 400-238095-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 7.5 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 1.5 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Xylenes, Total | 10 | | 10 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-19 — Lab Sample ID: 400-238095-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 21 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 1.5 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-20 — Lab Sample ID: 400-238095-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 110 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Toluene | 1.0 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 2.3 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-20 (Continued) — Lab Sample ID: 400-238095-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | 20 | | 10 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-22 — Lab Sample ID: 400-238095-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 160 | | 2.0 | | ug/L | 2 | | 8260D | Total/NA |
| Ethylbenzene | 43 | | 2.0 | | ug/L | 2 | | 8260D | Total/NA |
| Xylenes, Total | 440 | | 20 | | ug/L | 2 | | 8260D | Total/NA |

## Client Sample ID: MW-23 — Lab Sample ID: 400-238095-13

No Detections.

## Client Sample ID: MW-24 — Lab Sample ID: 400-238095-14

No Detections.

## Client Sample ID: MW-25 — Lab Sample ID: 400-238095-15

No Detections.

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

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

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-238095-1 | TRIP BLANK | Water | 05/19/23 09:10 | 05/23/23 09:10 |
| 400-238095-2 | DUP-01 | Water | 05/19/23 09:15 | 05/23/23 09:10 |
| 400-238095-3 | MW-6 | Water | 05/19/23 10:55 | 05/23/23 09:10 |
| 400-238095-4 | MW-9 | Water | 05/19/23 10:30 | 05/23/23 09:10 |
| 400-238095-5 | MW-13 | Water | 05/19/23 10:25 | 05/23/23 09:10 |
| 400-238095-6 | MW-15 | Water | 05/19/23 10:10 | 05/23/23 09:10 |
| 400-238095-7 | MW-16 | Water | 05/19/23 10:15 | 05/23/23 09:10 |
| 400-238095-8 | MW-17 | Water | 05/19/23 10:20 | 05/23/23 09:10 |
| 400-238095-9 | MW-18 | Water | 05/19/23 10:35 | 05/23/23 09:10 |
| 400-238095-10 | MW-19 | Water | 05/19/23 10:40 | 05/23/23 09:10 |
| 400-238095-11 | MW-20 | Water | 05/19/23 10:45 | 05/23/23 09:10 |
| 400-238095-12 | MW-22 | Water | 05/19/23 10:50 | 05/23/23 09:10 |
| 400-238095-13 | MW-23 | Water | 05/19/23 09:35 | 05/23/23 09:10 |
| 400-238095-14 | MW-24 | Water | 05/19/23 09:55 | 05/23/23 09:10 |
| 400-238095-15 | MW-25 | Water | 05/19/23 09:45 | 05/23/23 09:10 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: TRIP BLANK

**Date Collected: 05/19/23 09:10**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-1

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 20:10 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 20:10 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 20:10 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 20:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *05/31/23 20:10* | *1* |
| *Dibromofluoromethane* | *100* | | *75 - 126* | | *05/31/23 20:10* | *1* |
| *4-Bromofluorobenzene* | *96* | | *72 - 130* | | *05/31/23 20:10* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: DUP-01
**Date Collected: 05/19/23 09:15**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-2
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 19:18 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 19:18 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 19:18 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/25/23 19:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* | | *05/25/23 19:18* | *1* |
| *Dibromofluoromethane* | *107* | | *75 - 126* | | *05/25/23 19:18* | *1* |
| *4-Bromofluorobenzene* | *110* | | *72 - 130* | | *05/25/23 19:18* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-6

**Date Collected: 05/19/23 10:55**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-3

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 20:35 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 20:35 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 20:35 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 20:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *94* | | *64 - 132* | | *05/31/23 20:35* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *05/31/23 20:35* | *1* |
| *4-Bromofluorobenzene* | *100* | | *72 - 130* | | *05/31/23 20:35* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-9
**Date Collected: 05/19/23 10:30**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-4
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **85** | | 1.0 | | ug/L | | | 06/01/23 01:56 | 1 |
| **Toluene** | **6.5** | | 1.0 | | ug/L | | | 06/01/23 01:56 | 1 |
| **Ethylbenzene** | **2.2** | | 1.0 | | ug/L | | | 06/01/23 01:56 | 1 |
| **Xylenes, Total** | **13** | | 10 | | ug/L | | | 06/01/23 01:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *06/01/23 01:56* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *06/01/23 01:56* | *1* |
| *4-Bromofluorobenzene* | *100* | | *72 - 130* | | *06/01/23 01:56* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-13

**Date Collected: 05/19/23 10:25**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-5

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **2.8** | | 1.0 | | ug/L | | | 05/31/23 21:00 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 21:00 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 21:00 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 21:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *05/31/23 21:00* | *1* |
| *Dibromofluoromethane* | *100* | | *75 - 126* | | *05/31/23 21:00* | *1* |
| *4-Bromofluorobenzene* | *100* | | *72 - 130* | | *05/31/23 21:00* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-15
**Date Collected: 05/19/23 10:10**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-6
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **1.6** | | 1.0 | | ug/L | | | 05/31/23 21:24 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 21:24 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 21:24 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 21:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *05/31/23 21:24* | *1* |
| *Dibromofluoromethane* | *103* | | *75 - 126* | | *05/31/23 21:24* | *1* |
| *4-Bromofluorobenzene* | *101* | | *72 - 130* | | *05/31/23 21:24* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-16
**Date Collected: 05/19/23 10:15**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-7
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **12** | | 1.0 | | ug/L | | | 05/31/23 21:49 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 21:49 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 21:49 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 21:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *64 - 132* | | *05/31/23 21:49* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *05/31/23 21:49* | *1* |
| *4-Bromofluorobenzene* | *94* | | *72 - 130* | | *05/31/23 21:49* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-17
**Date Collected: 05/19/23 10:20**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-8
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **6.3** | | 1.0 | | ug/L | | | 05/31/23 22:14 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 22:14 | 1 |
| **Ethylbenzene** | **1.1** | | 1.0 | | ug/L | | | 05/31/23 22:14 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 22:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *82* | | *64 - 132* | | *05/31/23 22:14* | *1* |
| *Dibromofluoromethane* | *103* | | *75 - 126* | | *05/31/23 22:14* | *1* |
| *4-Bromofluorobenzene* | *99* | | *72 - 130* | | *05/31/23 22:14* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-18
**Date Collected: 05/19/23 10:35**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-9
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **7.5** | | 1.0 | | ug/L | | | 05/31/23 22:38 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 22:38 | 1 |
| **Ethylbenzene** | **1.5** | | 1.0 | | ug/L | | | 05/31/23 22:38 | 1 |
| **Xylenes, Total** | **10** | | 10 | | ug/L | | | 05/31/23 22:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *64 - 132* | | *05/31/23 22:38* | *1* |
| *Dibromofluoromethane* | *101* | | *75 - 126* | | *05/31/23 22:38* | *1* |
| *4-Bromofluorobenzene* | *92* | | *72 - 130* | | *05/31/23 22:38* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-19
**Date Collected: 05/19/23 10:40**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-10
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **21** | | 1.0 | | ug/L | | | 05/31/23 23:03 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 23:03 | 1 |
| **Ethylbenzene** | **1.5** | | 1.0 | | ug/L | | | 05/31/23 23:03 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 23:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *05/31/23 23:03* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *05/31/23 23:03* | *1* |
| *4-Bromofluorobenzene* | *96* | | *72 - 130* | | *05/31/23 23:03* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-20
**Date Collected: 05/19/23 10:45**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-11
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **110** | | 1.0 | | ug/L | | | 06/01/23 02:20 | 1 |
| **Toluene** | **1.0** | | 1.0 | | ug/L | | | 06/01/23 02:20 | 1 |
| **Ethylbenzene** | **2.3** | | 1.0 | | ug/L | | | 06/01/23 02:20 | 1 |
| **Xylenes, Total** | **20** | | 10 | | ug/L | | | 06/01/23 02:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* | | *06/01/23 02:20* | *1* |
| *Dibromofluoromethane* | *102* | | *75 - 126* | | *06/01/23 02:20* | *1* |
| *4-Bromofluorobenzene* | *91* | | *72 - 130* | | *06/01/23 02:20* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-22
**Date Collected: 05/19/23 10:50**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-12
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **160** | | 2.0 | | ug/L | | | 06/01/23 02:45 | 2 |
| Toluene | <2.0 | | 2.0 | | ug/L | | | 06/01/23 02:45 | 2 |
| **Ethylbenzene** | **43** | | 2.0 | | ug/L | | | 06/01/23 02:45 | 2 |
| **Xylenes, Total** | **440** | | 20 | | ug/L | | | 06/01/23 02:45 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* | | *06/01/23 02:45* | *2* |
| *Dibromofluoromethane* | *106* | | *75 - 126* | | *06/01/23 02:45* | *2* |
| *4-Bromofluorobenzene* | *98* | | *72 - 130* | | *06/01/23 02:45* | *2* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-23

**Date Collected: 05/19/23 09:35**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-13

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 23:28 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 23:28 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 23:28 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 23:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *64 - 132* | | *05/31/23 23:28* | *1* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *05/31/23 23:28* | *1* |
| *4-Bromofluorobenzene* | *96* | | *72 - 130* | | *05/31/23 23:28* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-24
**Date Collected: 05/19/23 09:55**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-14
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 19:44 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 19:44 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 19:44 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/25/23 19:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *05/25/23 19:44* | *1* |
| *Dibromofluoromethane* | *111* | | *75 - 126* | | *05/25/23 19:44* | *1* |
| *4-Bromofluorobenzene* | *110* | | *72 - 130* | | *05/25/23 19:44* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-25

**Date Collected: 05/19/23 09:45**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-15

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 23:52 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 23:52 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 23:52 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 23:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *95* | | *64 - 132* | | *05/31/23 23:52* | *1* |
| *Dibromofluoromethane* | *100* | | *75 - 126* | | *05/31/23 23:52* | *1* |
| *4-Bromofluorobenzene* | *95* | | *72 - 130* | | *05/31/23 23:52* | *1* |

# Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## 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: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: TRIP BLANK
**Lab Sample ID: 400-238095-1**
**Date Collected: 05/19/23 09:10**
**Matrix: Water**
**Date Received: 05/23/23 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 20:10 | WPD | EET PEN |

## Client Sample ID: DUP-01
**Lab Sample ID: 400-238095-2**
**Date Collected: 05/19/23 09:15**
**Matrix: Water**
**Date Received: 05/23/23 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 626453 | 05/25/23 19:18 | BPO | EET PEN |

## Client Sample ID: MW-6
**Lab Sample ID: 400-238095-3**
**Date Collected: 05/19/23 10:55**
**Matrix: Water**
**Date Received: 05/23/23 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 20:35 | WPD | EET PEN |

## Client Sample ID: MW-9
**Lab Sample ID: 400-238095-4**
**Date Collected: 05/19/23 10:30**
**Matrix: Water**
**Date Received: 05/23/23 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 06/01/23 01:56 | WPD | EET PEN |

## Client Sample ID: MW-13
**Lab Sample ID: 400-238095-5**
**Date Collected: 05/19/23 10:25**
**Matrix: Water**
**Date Received: 05/23/23 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 21:00 | WPD | EET PEN |

## Client Sample ID: MW-15
**Lab Sample ID: 400-238095-6**
**Date Collected: 05/19/23 10:10**
**Matrix: Water**
**Date Received: 05/23/23 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 21:24 | WPD | EET PEN |

## Client Sample ID: MW-16
**Lab Sample ID: 400-238095-7**
**Date Collected: 05/19/23 10:15**
**Matrix: Water**
**Date Received: 05/23/23 09:10**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 21:49 | WPD | EET PEN |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-17
**Date Collected: 05/19/23 10:20**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-8
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 22:14 | WPD | EET PEN |

## Client Sample ID: MW-18
**Date Collected: 05/19/23 10:35**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-9
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 22:38 | WPD | EET PEN |

## Client Sample ID: MW-19
**Date Collected: 05/19/23 10:40**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 23:03 | WPD | EET PEN |

## Client Sample ID: MW-20
**Date Collected: 05/19/23 10:45**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-11
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 627229 | 06/01/23 02:20 | WPD | EET PEN |

## Client Sample ID: MW-22
**Date Collected: 05/19/23 10:50**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-12
**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 | 8260D | | 2 | 5 mL | 5 mL | 627229 | 06/01/23 02:45 | WPD | EET PEN |

## Client Sample ID: MW-23
**Date Collected: 05/19/23 09:35**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-13
**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 | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 23:28 | WPD | EET PEN |

## Client Sample ID: MW-24
**Date Collected: 05/19/23 09:55**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-14
**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 | 8260D | | 1 | 5 mL | 5 mL | 626453 | 05/25/23 19:44 | BPO | EET PEN |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

## Client Sample ID: MW-25
**Date Collected: 05/19/23 09:45**
**Date Received: 05/23/23 09:10**

## Lab Sample ID: 400-238095-15
**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 | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 23:52 | WPD | EET PEN |

## Client Sample ID: Method Blank
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: MB 400-626453/4
**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 | 8260D | | 1 | 5 mL | 5 mL | 626453 | 05/25/23 10:43 | BPO | EET PEN |

## Client Sample ID: Method Blank
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: MB 400-627229/4
**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 | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 16:56 | WPD | EET PEN |

## Client Sample ID: Lab Control Sample
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: LCS 400-626453/1002
**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 | 8260D | | 1 | 5 mL | 5 mL | 626453 | 05/25/23 09:32 | BPO | EET PEN |

## Client Sample ID: Lab Control Sample
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: LCS 400-627229/1002
**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 | 8260D | | 1 | 5 mL | 5 mL | 627229 | 05/31/23 16:13 | WPD | EET PEN |

**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: Johnston Federal #4.00

Job ID: 400-238095-1

## GC/MS VOA

### Analysis Batch: 626453

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-238095-2 | DUP-01 | Total/NA | Water | 8260D | |
| 400-238095-14 | MW-24 | Total/NA | Water | 8260D | |
| MB 400-626453/4 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-626453/1002 | Lab Control Sample | Total/NA | Water | 8260D | |

### Analysis Batch: 627229

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-238095-1 | TRIP BLANK | Total/NA | Water | 8260D | |
| 400-238095-3 | MW-6 | Total/NA | Water | 8260D | |
| 400-238095-4 | MW-9 | Total/NA | Water | 8260D | |
| 400-238095-5 | MW-13 | Total/NA | Water | 8260D | |
| 400-238095-6 | MW-15 | Total/NA | Water | 8260D | |
| 400-238095-7 | MW-16 | Total/NA | Water | 8260D | |
| 400-238095-8 | MW-17 | Total/NA | Water | 8260D | |
| 400-238095-9 | MW-18 | Total/NA | Water | 8260D | |
| 400-238095-10 | MW-19 | Total/NA | Water | 8260D | |
| 400-238095-11 | MW-20 | Total/NA | Water | 8260D | |
| 400-238095-12 | MW-22 | Total/NA | Water | 8260D | |
| 400-238095-13 | MW-23 | Total/NA | Water | 8260D | |
| 400-238095-15 | MW-25 | Total/NA | Water | 8260D | |
| MB 400-627229/4 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-627229/1002 | Lab Control Sample | Total/NA | Water | 8260D | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

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

**Lab Sample ID: MB 400-626453/4**
**Matrix: Water**
**Analysis Batch: 626453**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 10:43 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 10:43 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/25/23 10:43 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/25/23 10:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *05/25/23 10:43* | *1* |
| *Dibromofluoromethane* | *119* | | *75 - 126* | | *05/25/23 10:43* | *1* |
| *4-Bromofluorobenzene* | *107* | | *72 - 130* | | *05/25/23 10:43* | *1* |

**Lab Sample ID: LCS 400-626453/1002**
**Matrix: Water**
**Analysis Batch: 626453**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 52.2 | | ug/L | | 104 | 70 - 130 |
| Toluene | 50.0 | 53.6 | | ug/L | | 107 | 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* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *108* | | *64 - 132* |
| *Dibromofluoromethane* | *98* | | *75 - 126* |
| *4-Bromofluorobenzene* | *126* | | *72 - 130* |

**Lab Sample ID: MB 400-627229/4**
**Matrix: Water**
**Analysis Batch: 627229**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 16:56 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 16:56 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/31/23 16:56 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/31/23 16:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *05/31/23 16:56* | *1* |
| *Dibromofluoromethane* | *103* | | *75 - 126* | | *05/31/23 16:56* | *1* |
| *4-Bromofluorobenzene* | *99* | | *72 - 130* | | *05/31/23 16:56* | *1* |

**Lab Sample ID: LCS 400-627229/1002**
**Matrix: Water**
**Analysis Batch: 627229**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 48.4 | | ug/L | | 97 | 70 - 130 |
| Toluene | 50.0 | 48.3 | | ug/L | | 97 | 70 - 130 |
| Ethylbenzene | 50.0 | 48.2 | | ug/L | | 96 | 70 - 130 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-238095-1

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

**Lab Sample ID: LCS 400-627229/1002**
**Matrix: Water**
**Analysis Batch: 627229**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | | | 100 | 96.0 | | ug/L | | 96 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* |
| *Dibromofluoromethane* | *102* | | *75 - 126* |
| *4-Bromofluorobenzene* | *99* | | *72 - 130* |

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Sarah Gardner + Sean Clary | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-120291-41341.1 |
|---|---|---|---|---|
| Client Contact: Joe Wiley | Phone: 303-291-2239 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: | Page: Page 1 of 2 |
| Company: El Paso Energy Corporation | PWSID: | | | Job #: |
| Address: 1001 Louisiana Street Room S1905B | Due Date Requested: Standard | | | |
| City: Houston | TAT Requested (days): Standard | | | |
| State, Zip: TX, 77002 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040031 | | | |
| Email: joe.wiley@kindermorgan.com | WO #: Johnston Federal #4.0_ERG_ARF_04-26-2023 | | | |
| Project Name: Johnston Federal #4.00 | Project #: 40015823 | | | |
| Site: Johnston Federal 4 | SSOW#: | | | |

**Analysis Requested**

400-238095 COC

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

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | 8260D - BTEX - 8260 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | A | | |
| Trip Blank | 5/19/23 | 910 | 2 | Water | — | 2 | 2 | Trip Blank |
| DUP-01 | 5/19/23 | 915 | G | Water | — | 2 | 2 | Unpreserved |
| MW-6 | 5/19/23 | 1055 | G | Water | — | 2 | 2 | |
| MW-9 | 5/19/23 | 1030 | G | Water | — | 2 | 2 | |
| MW-13 | 5/19/23 | 1025 | G | Water | — | 2 | 2 | |
| MW-15 | 5/19/23 | 1010 | G | Water | — | 2 | 2 | |
| MW-16 | 5/19/23 | 1015 | G | Water | — | 2 | 2 | |
| MW-17 | 5/19/23 | 1020 | G | Water | — | 2 | 2 | |
| MW-18 | 5/19/23 | 1035 | G | Water | — | 2 | 2 | |
| MW-19 | 5/19/23 | 1040 | G | Water | — | 2 | 2 | |
| MW-20 | 5/19/23 | 1045 | G | Water | — | 2 | 2 | |

**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 |
|---|---|---|---|---|---|
| Sarah Gardner | 5/22/23 1200 | Stantec | [signature] | 5/23/23 9:10 | |
| 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: 0.4°C IR11

Ver: 06/08/2021

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: Sarah Gardner & Sean Clary | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-120291-41341.2 |
|---|---|---|---|---|
| Client Contact: Joe Wiley | Phone: 303-291-2239 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: | Page: Page 2 of 2 |
| Company: El Paso Energy Corporation | PWSID: | | | Job #: |
| Address: 1001 Louisiana Street Room S1905B | Due Date Requested: | | | |
| City: Houston | TAT Requested (days): | | | |
| State, Zip: TX, 77002 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040031 | | | |
| Email: joe.wiley@kindermorgan.com | WO #: Johnston Federal #4.0_ERG_ARF_04-26-2023 | | | |
| Project Name: Johnston Federal #4.00 | Project #: 40015823 | | | |
| Site: Johnston Federal #4 | SSOW#: | | | |

**Analysis Requested**

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

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | 8260D - BTEX - 8260 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | A | | |
| MW-22 | 5/19/23 | 1050 | G | Water | — | 2 | 2 | |
| MW-23 | 5/19/23 | 935 | G | Water | — | 2 | 2 | |
| MW-24 | 5/19/23 | 955 | G | Water | — | 2 | 2 | unpreserved |
| MW-25 | 5/19/23 | 945 | G | Water | — | 2 | 2 | |
| | | | | Water | | | | |

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

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

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

Special Instructions/QC Requirements:

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

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | [signature] | 5/22/23 @ 1200 | Stantec | [signature] | 5/23/23 8:10 | |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | 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: 0.4°C IR11 |
|---|---|---|

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-238095-1

**Login Number: 238095** **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. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| 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 | |
| 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. | True | |
| 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. | True | |

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-238095-1
Project/Site: Johnston Federal #4.00

## 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 | 02-22-26 |
| Arkansas DEQ | State | 88-0689 | 09-01-23 |
| California | State | 2510 | 06-30-23 |
| Florida | NELAP | E81010 | 06-30-23 |
| Georgia | State | E81010(FL) | 06-30-23 |
| Illinois | NELAP | 200041 | 10-09-23 |
| Kansas | NELAP | E-10253 | 10-31-23 |
| Kentucky (UST) | State | 53 | 06-30-23 |
| Louisiana (All) | NELAP | 30976 | 06-30-23 |
| Louisiana (DW) | State | LA017 | 12-31-23 |
| Maryland | State | 233 | 09-30-23 |
| Michigan | State | 9912 | 06-30-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-23 |
| Oklahoma | NELAP | 9810 | 08-31-23 |
| Pennsylvania | NELAP | 68-00467 | 01-31-24 |
| South Carolina | State | 96026 | 06-30-23 |
| Tennessee | State | TN02907 | 06-30-23 |
| Texas | NELAP | T104704286 | 09-30-23 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-23 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| USDA | US Federal Programs | FLGNV23001 | 01-08-26 |
| Virginia | NELAP | 460166 | 06-14-23 |
| West Virginia DEP | State | 136 | 03-31-24 |

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/4/2023 9:27:23 AM

## JOB DESCRIPTION

Johnston Federal #4.00

## JOB NUMBER

400-246679-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

# Eurofins Pensacola

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization

Generated
12/4/2023 9:27:23 AM

Authorized for release by
Isabel Enfinger, Project Manager I
isabel.enfinger@et.eurofinsus.com
Designee for
Cheyenne Whitmire, Project Manager II
Cheyenne.Whitmire@et.eurofinsus.com
(850)471-6222

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Laboratory Job ID: 400-246679-1

# Table of Contents

# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Job ID: 400-246679-1

### Laboratory: Eurofins Pensacola

**Narrative**

**Job Narrative**
**400-246679-1**

**Receipt**
The samples were received on 11/14/2023 8:56 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0º C.

**GC/MS VOA**
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1 (400-246679-1), MW-3 (400-246679-3), MW-10 (400-246679-7), MW-11 (400-246679-8), MW-15 (400-246679-12), MW-16 (400-246679-13), MW-17 (400-246679-14), MW-20 (400-246679-17) and MW-22 (400-246679-18). Elevated reporting limits (RLs) are provided.

Method 8260D: One of three internal standard responses was outside of acceptance limits for the following samples: MW-23 (400-246679-19). The 4-Bromofluorobenzene surrogate was the only analyte quantitated with this internal standard and the percent recoveries were within acceptance criteria. Therefore the data has been reported.

Method 8260D: Surrogate recovery for the following samples were outside control limits: MW-19 (400-246679-16) and MW-24 (400-246679-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following sample was analyzed outside of 12 hour run window: MW-22 (400-246679-18). The original analysis is reported as primary and reanalysis reported as secondary.

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

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

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-1 — Lab Sample ID: 400-246679-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 4200 | | 50 | | ug/L | 50 | | 8260D | Total/NA |
| Ethylbenzene | 140 | | 50 | | ug/L | 50 | | 8260D | Total/NA |
| Toluene | 5700 | | 50 | | ug/L | 50 | | 8260D | Total/NA |
| Xylenes, Total | 3700 | | 500 | | ug/L | 50 | | 8260D | Total/NA |

## Client Sample ID: MW-2 — Lab Sample ID: 400-246679-2

No Detections.

## Client Sample ID: MW-3 — Lab Sample ID: 400-246679-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 370 | | 5.0 | | ug/L | 5 | | 8260D | Total/NA |

## Client Sample ID: MW-4 — Lab Sample ID: 400-246679-4

No Detections.

## Client Sample ID: MW-6 — Lab Sample ID: 400-246679-5

No Detections.

## Client Sample ID: MW-9 — Lab Sample ID: 400-246679-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 56 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 1.3 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-10 — Lab Sample ID: 400-246679-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1500 | | 5.0 | | ug/L | 5 | | 8260D | Total/NA |
| Ethylbenzene | 26 | | 5.0 | | ug/L | 5 | | 8260D | Total/NA |
| Toluene | 9.9 | | 5.0 | | ug/L | 5 | | 8260D | Total/NA |
| Xylenes, Total | 71 | | 50 | | ug/L | 5 | | 8260D | Total/NA |

## Client Sample ID: MW-11 — Lab Sample ID: 400-246679-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 19 | | 2.0 | | ug/L | 2 | | 8260D | Total/NA |
| Ethylbenzene | 73 | | 2.0 | | ug/L | 2 | | 8260D | Total/NA |
| Toluene | 9.0 | | 2.0 | | ug/L | 2 | | 8260D | Total/NA |
| Xylenes, Total | 27 | | 20 | | ug/L | 2 | | 8260D | Total/NA |

## Client Sample ID: MW-12 — Lab Sample ID: 400-246679-9

No Detections.

## Client Sample ID: MW-13 — Lab Sample ID: 400-246679-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 7.3 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-14 — Lab Sample ID: 400-246679-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-15 — Lab Sample ID: 400-246679-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2100 | | 20 | | ug/L | 20 | | 8260D | Total/NA |
| Ethylbenzene | 72 | | 20 | | ug/L | 20 | | 8260D | Total/NA |
| Xylenes, Total | 480 | | 200 | | ug/L | 20 | | 8260D | Total/NA |

## Client Sample ID: MW-16 — Lab Sample ID: 400-246679-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1200 | | 10 | | ug/L | 10 | | 8260D | Total/NA |
| Ethylbenzene | 49 | | 10 | | ug/L | 10 | | 8260D | Total/NA |

## Client Sample ID: MW-17 — Lab Sample ID: 400-246679-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 690 | | 10 | | ug/L | 10 | | 8260D | Total/NA |
| Ethylbenzene | 180 | | 10 | | ug/L | 10 | | 8260D | Total/NA |
| Xylenes, Total | 1000 | | 100 | | ug/L | 10 | | 8260D | Total/NA |

## Client Sample ID: MW-18 — Lab Sample ID: 400-246679-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 16 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 4.0 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Xylenes, Total | 26 | | 10 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-19 — Lab Sample ID: 400-246679-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 75 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 4.4 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Xylenes, Total | 41 | | 10 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-20 — Lab Sample ID: 400-246679-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 420 | | 5.0 | | ug/L | 5 | | 8260D | Total/NA |
| Ethylbenzene | 15 | | 5.0 | | ug/L | 5 | | 8260D | Total/NA |
| Xylenes, Total | 110 | | 50 | | ug/L | 5 | | 8260D | Total/NA |

## Client Sample ID: MW-22 — Lab Sample ID: 400-246679-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 670 | | 20 | | ug/L | 20 | | 8260D | Total/NA |
| Ethylbenzene | 170 | | 20 | | ug/L | 20 | | 8260D | Total/NA |
| Xylenes, Total | 1800 | | 200 | | ug/L | 20 | | 8260D | Total/NA |
| Benzene - RA | 700 | H | 20 | | ug/L | 20 | | 8260D | Total/NA |
| Ethylbenzene - RA | 190 | H | 20 | | ug/L | 20 | | 8260D | Total/NA |
| Xylenes, Total - RA | 2100 | H | 200 | | ug/L | 20 | | 8260D | Total/NA |

## Client Sample ID: MW-23 — Lab Sample ID: 400-246679-19

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-24 — Lab Sample ID: 400-246679-20

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 18 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 1.6 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: MW-25 — Lab Sample ID: 400-246679-21

No Detections.

## Client Sample ID: DUP-01 — Lab Sample ID: 400-246679-22

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 46 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |
| Ethylbenzene | 3.7 | | 1.0 | | ug/L | 1 | | 8260D | Total/NA |

## Client Sample ID: DUP-02 — Lab Sample ID: 400-246679-23

No Detections.

## Client Sample ID: TB-01 — Lab Sample ID: 400-246679-24

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

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

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 400-246679-1 | MW-1 | Water | 11/11/23 09:50 | 11/14/23 08:56 |
| 400-246679-2 | MW-2 | Water | 11/11/23 10:00 | 11/14/23 08:56 |
| 400-246679-3 | MW-3 | Water | 11/11/23 10:08 | 11/14/23 08:56 |
| 400-246679-4 | MW-4 | Water | 11/11/23 10:19 | 11/14/23 08:56 |
| 400-246679-5 | MW-6 | Water | 11/11/23 11:36 | 11/14/23 08:56 |
| 400-246679-6 | MW-9 | Water | 11/11/23 10:25 | 11/14/23 08:56 |
| 400-246679-7 | MW-10 | Water | 11/11/23 10:29 | 11/14/23 08:56 |
| 400-246679-8 | MW-11 | Water | 11/11/23 10:36 | 11/14/23 08:56 |
| 400-246679-9 | MW-12 | Water | 11/11/23 10:42 | 11/14/23 08:56 |
| 400-246679-10 | MW-13 | Water | 11/11/23 10:47 | 11/14/23 08:56 |
| 400-246679-11 | MW-14 | Water | 11/11/23 10:53 | 11/14/23 08:56 |
| 400-246679-12 | MW-15 | Water | 11/11/23 10:58 | 11/14/23 08:56 |
| 400-246679-13 | MW-16 | Water | 11/11/23 11:04 | 11/14/23 08:56 |
| 400-246679-14 | MW-17 | Water | 11/11/23 11:11 | 11/14/23 08:56 |
| 400-246679-15 | MW-18 | Water | 11/11/23 11:16 | 11/14/23 08:56 |
| 400-246679-16 | MW-19 | Water | 11/11/23 11:24 | 11/14/23 08:56 |
| 400-246679-17 | MW-20 | Water | 11/11/23 12:04 | 11/14/23 08:56 |
| 400-246679-18 | MW-22 | Water | 11/11/23 11:30 | 11/14/23 08:56 |
| 400-246679-19 | MW-23 | Water | 11/11/23 12:09 | 11/14/23 08:56 |
| 400-246679-20 | MW-24 | Water | 11/11/23 09:43 | 11/14/23 08:56 |
| 400-246679-21 | MW-25 | Water | 11/11/23 12:16 | 11/14/23 08:56 |
| 400-246679-22 | DUP-01 | Water | 11/11/23 12:00 | 11/14/23 08:56 |
| 400-246679-23 | DUP-02 | Water | 11/11/23 12:00 | 11/14/23 08:56 |
| 400-246679-24 | TB-01 | Water | 11/11/23 09:00 | 11/14/23 08:56 |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-1
**Date Collected: 11/11/23 09:50**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-1
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **4200** | | 50 | | ug/L | | | 11/22/23 14:36 | 50 |
| **Ethylbenzene** | **140** | | 50 | | ug/L | | | 11/22/23 14:36 | 50 |
| **Toluene** | **5700** | | 50 | | ug/L | | | 11/22/23 14:36 | 50 |
| **Xylenes, Total** | **3700** | | 500 | | ug/L | | | 11/22/23 14:36 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *109* | | *72 - 130* | | *11/22/23 14:36* | *50* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *11/22/23 14:36* | *50* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* | | *11/22/23 14:36* | *50* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-2
**Date Collected: 11/11/23 10:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-2
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 19:56 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 19:56 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 19:56 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/21/23 19:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *113* | | *72 - 130* | | *11/21/23 19:56* | *1* |
| *Dibromofluoromethane* | *116* | | *75 - 126* | | *11/21/23 19:56* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/21/23 19:56* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-3
**Date Collected: 11/11/23 10:08**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-3
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **370** | | 5.0 | | ug/L | | | 11/21/23 22:10 | 5 |
| Ethylbenzene | <5.0 | | 5.0 | | ug/L | | | 11/21/23 22:10 | 5 |
| Toluene | <5.0 | | 5.0 | | ug/L | | | 11/21/23 22:10 | 5 |
| Xylenes, Total | <50 | | 50 | | ug/L | | | 11/21/23 22:10 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *72 - 130* | | *11/21/23 22:10* | *5* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *11/21/23 22:10* | *5* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/21/23 22:10* | *5* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-4
**Date Collected: 11/11/23 10:19**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-4
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 20:23 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 20:23 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 20:23 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/21/23 20:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *104* | | *72 - 130* | | *11/21/23 20:23* | *1* |
| *Dibromofluoromethane* | *115* | | *75 - 126* | | *11/21/23 20:23* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/21/23 20:23* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-6
**Date Collected: 11/11/23 11:36**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-5
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 13:15 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 13:15 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 13:15 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 13:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *115* | | *72 - 130* | | *11/22/23 13:15* | *1* |
| *Dibromofluoromethane* | *110* | | *75 - 126* | | *11/22/23 13:15* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* | | *11/22/23 13:15* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-9
**Date Collected: 11/11/23 10:25**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-6
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **56** | | 1.0 | | ug/L | | | 11/22/23 02:08 | 1 |
| **Ethylbenzene** | **1.3** | | 1.0 | | ug/L | | | 11/22/23 02:08 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 02:08 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 02:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *113* | | *72 - 130* | | *11/22/23 02:08* | *1* |
| *Dibromofluoromethane* | *87* | | *75 - 126* | | *11/22/23 02:08* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *64 - 132* | | *11/22/23 02:08* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-10
**Date Collected: 11/11/23 10:29**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-7
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **1500** | | 5.0 | | ug/L | | | 11/22/23 13:42 | 5 |
| **Ethylbenzene** | **26** | | 5.0 | | ug/L | | | 11/22/23 13:42 | 5 |
| **Toluene** | **9.9** | | 5.0 | | ug/L | | | 11/22/23 13:42 | 5 |
| **Xylenes, Total** | **71** | | 50 | | ug/L | | | 11/22/23 13:42 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *111* | | *72 - 130* | | *11/22/23 13:42* | *5* |
| *Dibromofluoromethane* | *105* | | *75 - 126* | | *11/22/23 13:42* | *5* |
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* | | *11/22/23 13:42* | *5* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-11
**Date Collected: 11/11/23 10:36**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-8
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **19** | | 2.0 | | ug/L | | | 11/22/23 04:13 | 2 |
| **Ethylbenzene** | **73** | | 2.0 | | ug/L | | | 11/22/23 04:13 | 2 |
| **Toluene** | **9.0** | | 2.0 | | ug/L | | | 11/22/23 04:13 | 2 |
| **Xylenes, Total** | **27** | | 20 | | ug/L | | | 11/22/23 04:13 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *110* | | *72 - 130* | | *11/22/23 04:13* | *2* |
| *Dibromofluoromethane* | *91* | | *75 - 126* | | *11/22/23 04:13* | *2* |
| *Toluene-d8 (Surr)* | *111* | | *64 - 132* | | *11/22/23 04:13* | *2* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-12
**Date Collected: 11/11/23 10:42**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-9
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 02:33 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 02:33 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 02:33 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 02:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *114* | | *72 - 130* | | *11/22/23 02:33* | *1* |
| *Dibromofluoromethane* | *89* | | *75 - 126* | | *11/22/23 02:33* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* | | *11/22/23 02:33* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-13
**Date Collected: 11/11/23 10:47**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-10
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **7.3** | | 1.0 | | ug/L | | | 11/22/23 02:58 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 02:58 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 02:58 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 02:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *108* | | *72 - 130* | | *11/22/23 02:58* | *1* |
| *Dibromofluoromethane* | *86* | | *75 - 126* | | *11/22/23 02:58* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *64 - 132* | | *11/22/23 02:58* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-14
**Date Collected: 11/11/23 10:53**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-11
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 03:23 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 03:23 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 03:23 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 03:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *107* | | *72 - 130* | | *11/22/23 03:23* | *1* |
| *Dibromofluoromethane* | *88* | | *75 - 126* | | *11/22/23 03:23* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *64 - 132* | | *11/22/23 03:23* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-15
**Date Collected: 11/11/23 10:58**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-12
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **2100** | | 20 | | ug/L | | | 11/22/23 21:44 | 20 |
| **Ethylbenzene** | **72** | | 20 | | ug/L | | | 11/22/23 21:44 | 20 |
| Toluene | <20 | | 20 | | ug/L | | | 11/22/23 21:44 | 20 |
| **Xylenes, Total** | **480** | | 200 | | ug/L | | | 11/22/23 21:44 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *72 - 130* | | *11/22/23 21:44* | *20* |
| *Dibromofluoromethane* | *108* | | *75 - 126* | | *11/22/23 21:44* | *20* |
| *Toluene-d8 (Surr)* | *123* | | *64 - 132* | | *11/22/23 21:44* | *20* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-16
**Date Collected: 11/11/23 11:04**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-13
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **1200** | | 10 | | ug/L | | | 11/22/23 20:51 | 10 |
| **Ethylbenzene** | **49** | | 10 | | ug/L | | | 11/22/23 20:51 | 10 |
| Toluene | <10 | | 10 | | ug/L | | | 11/22/23 20:51 | 10 |
| Xylenes, Total | <100 | | 100 | | ug/L | | | 11/22/23 20:51 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *106* | | *72 - 130* | | *11/22/23 20:51* | *10* |
| *Dibromofluoromethane* | *107* | | *75 - 126* | | *11/22/23 20:51* | *10* |
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* | | *11/22/23 20:51* | *10* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-17
**Date Collected: 11/11/23 11:11**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-14
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **690** | | 10 | | ug/L | | | 11/22/23 21:17 | 10 |
| **Ethylbenzene** | **180** | | 10 | | ug/L | | | 11/22/23 21:17 | 10 |
| Toluene | <10 | | 10 | | ug/L | | | 11/22/23 21:17 | 10 |
| **Xylenes, Total** | **1000** | | 100 | | ug/L | | | 11/22/23 21:17 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *85* | | *72 - 130* | | *11/22/23 21:17* | *10* |
| *Dibromofluoromethane* | *78* | | *75 - 126* | | *11/22/23 21:17* | *10* |
| *Toluene-d8 (Surr)* | *72* | | *64 - 132* | | *11/22/23 21:17* | *10* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-18
**Date Collected: 11/11/23 11:16**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-15
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **16** | | 1.0 | | ug/L | | | 11/22/23 18:37 | 1 |
| **Ethylbenzene** | **4.0** | | 1.0 | | ug/L | | | 11/22/23 18:37 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 18:37 | 1 |
| **Xylenes, Total** | **26** | | 10 | | ug/L | | | 11/22/23 18:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *108* | | *72 - 130* | | *11/22/23 18:37* | *1* |
| *Dibromofluoromethane* | *110* | | *75 - 126* | | *11/22/23 18:37* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* | | *11/22/23 18:37* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-19
**Date Collected: 11/11/23 11:24**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-16
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **75** | | 1.0 | | ug/L | | | 11/22/23 19:03 | 1 |
| **Ethylbenzene** | **4.4** | | 1.0 | | ug/L | | | 11/22/23 19:03 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 19:03 | 1 |
| **Xylenes, Total** | **41** | | 10 | | ug/L | | | 11/22/23 19:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *72 - 130* | | *11/22/23 19:03* | *1* |
| *Dibromofluoromethane* | *135* | *S1+* | *75 - 126* | | *11/22/23 19:03* | *1* |
| *Toluene-d8 (Surr)* | *127* | | *64 - 132* | | *11/22/23 19:03* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-20

**Date Collected: 11/11/23 12:04**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-17

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **420** | | 5.0 | | ug/L | | | 11/22/23 20:24 | 5 |
| **Ethylbenzene** | **15** | | 5.0 | | ug/L | | | 11/22/23 20:24 | 5 |
| Toluene | <5.0 | | 5.0 | | ug/L | | | 11/22/23 20:24 | 5 |
| **Xylenes, Total** | **110** | | 50 | | ug/L | | | 11/22/23 20:24 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *121* | | *72 - 130* | | *11/22/23 20:24* | *5* |
| *Dibromofluoromethane* | *110* | | *75 - 126* | | *11/22/23 20:24* | *5* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* | | *11/22/23 20:24* | *5* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-22

**Date Collected: 11/11/23 11:30**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-18

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **670** | | 20 | | ug/L | | | 11/22/23 22:11 | 20 |
| **Ethylbenzene** | **170** | | 20 | | ug/L | | | 11/22/23 22:11 | 20 |
| Toluene | <20 | | 20 | | ug/L | | | 11/22/23 22:11 | 20 |
| **Xylenes, Total** | **1800** | | 200 | | ug/L | | | 11/22/23 22:11 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *84* | | *72 - 130* | | *11/22/23 22:11* | *20* |
| *Dibromofluoromethane* | *104* | | *75 - 126* | | *11/22/23 22:11* | *20* |
| *Toluene-d8 (Surr)* | *115* | | *64 - 132* | | *11/22/23 22:11* | *20* |

### Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **700** | **H** | 20 | | ug/L | | | 11/29/23 15:50 | 20 |
| **Ethylbenzene** | **190** | **H** | 20 | | ug/L | | | 11/29/23 15:50 | 20 |
| Toluene | <20 | H | 20 | | ug/L | | | 11/29/23 15:50 | 20 |
| **Xylenes, Total** | **2100** | **H** | 200 | | ug/L | | | 11/29/23 15:50 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *107* | | *72 - 130* | | *11/29/23 15:50* | *20* |
| *Dibromofluoromethane* | *87* | | *75 - 126* | | *11/29/23 15:50* | *20* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* | | *11/29/23 15:50* | *20* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-23
**Date Collected: 11/11/23 12:09**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-19
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 19:30 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 19:30 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 19:30 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 19:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *108* | **3* | *72 - 130* | | *11/22/23 19:30* | *1* |
| *Dibromofluoromethane* | *114* | | *75 - 126* | | *11/22/23 19:30* | *1* |
| *Toluene-d8 (Surr)* | *126* | | *64 - 132* | | *11/22/23 19:30* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-24
**Date Collected: 11/11/23 09:43**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-20
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **18** | | 1.0 | | ug/L | | | 11/22/23 19:57 | 1 |
| **Ethylbenzene** | **1.6** | | 1.0 | | ug/L | | | 11/22/23 19:57 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 19:57 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 19:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *147* | *S1+* | *72 - 130* | | *11/22/23 19:57* | *1* |
| *Dibromofluoromethane* | *81* | | *75 - 126* | | *11/22/23 19:57* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* | | *11/22/23 19:57* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-25
**Date Collected: 11/11/23 12:16**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-21
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 12:49 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 12:49 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 12:49 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 12:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *109* | | *72 - 130* | | *11/22/23 12:49* | *1* |
| *Dibromofluoromethane* | *111* | | *75 - 126* | | *11/22/23 12:49* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *64 - 132* | | *11/22/23 12:49* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: DUP-01
**Date Collected: 11/11/23 12:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-22
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **46** | | 1.0 | | ug/L | | | 11/22/23 17:34 | 1 |
| **Ethylbenzene** | **3.7** | | 1.0 | | ug/L | | | 11/22/23 17:34 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 17:34 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 17:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *111* | | *72 - 130* | | *11/22/23 17:34* | *1* |
| *Dibromofluoromethane* | *84* | | *75 - 126* | | *11/22/23 17:34* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* | | *11/22/23 17:34* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: DUP-02
**Date Collected: 11/11/23 12:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-23
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 17:59 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 17:59 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 17:59 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 17:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *118* | | *72 - 130* | | *11/22/23 17:59* | *1* |
| *Dibromofluoromethane* | *86* | | *75 - 126* | | *11/22/23 17:59* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* | | *11/22/23 17:59* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: TB-01

**Date Collected: 11/11/23 09:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-24

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 17:09 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 17:09 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 17:09 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 17:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *112* | | *72 - 130* | | *11/22/23 17:09* | *1* |
| *Dibromofluoromethane* | *85* | | *75 - 126* | | *11/22/23 17:09* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *64 - 132* | | *11/22/23 17:09* | *1* |

# Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| *3 | ISTD response or retention time outside acceptable limits. |
| H | Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements. |
| 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: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-1
**Date Collected: 11/11/23 09:50**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-1
**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 | 8260D | | 50 | 5 mL | 5 mL | 651420 | 11/22/23 14:36 | BPO | EET PEN |

## Client Sample ID: MW-2
**Date Collected: 11/11/23 10:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-2
**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 | 8260D | | 1 | 5 mL | 5 mL | 651212 | 11/21/23 19:56 | BPO | EET PEN |

## Client Sample ID: MW-3
**Date Collected: 11/11/23 10:08**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-3
**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 | 8260D | | 5 | 5 mL | 5 mL | 651212 | 11/21/23 22:10 | BPO | EET PEN |

## Client Sample ID: MW-4
**Date Collected: 11/11/23 10:19**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-4
**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 | 8260D | | 1 | 5 mL | 5 mL | 651212 | 11/21/23 20:23 | BPO | EET PEN |

## Client Sample ID: MW-6
**Date Collected: 11/11/23 11:36**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-5
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 13:15 | BPO | EET PEN |

## Client Sample ID: MW-9
**Date Collected: 11/11/23 10:25**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 651377 | 11/22/23 02:08 | BPO | EET PEN |

## Client Sample ID: MW-10
**Date Collected: 11/11/23 10:29**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-7
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 5 | 5 mL | 5 mL | 651420 | 11/22/23 13:42 | BPO | EET PEN |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-11
**Date Collected: 11/11/23 10:36**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-8
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 2 | 5 mL | 5 mL | 651377 | 11/22/23 04:13 | BPO | EET PEN |

## Client Sample ID: MW-12
**Date Collected: 11/11/23 10:42**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-9
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 651377 | 11/22/23 02:33 | BPO | EET PEN |

## Client Sample ID: MW-13
**Date Collected: 11/11/23 10:47**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-10
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 651377 | 11/22/23 02:58 | BPO | EET PEN |

## Client Sample ID: MW-14
**Date Collected: 11/11/23 10:53**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-11
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 651377 | 11/22/23 03:23 | BPO | EET PEN |

## Client Sample ID: MW-15
**Date Collected: 11/11/23 10:58**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-12
**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 | 8260D | | 20 | 5 mL | 5 mL | 651420 | 11/22/23 21:44 | BPO | EET PEN |

## Client Sample ID: MW-16
**Date Collected: 11/11/23 11:04**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-13
**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 | 8260D | | 10 | 5 mL | 5 mL | 651420 | 11/22/23 20:51 | BPO | EET PEN |

## Client Sample ID: MW-17
**Date Collected: 11/11/23 11:11**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-14
**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 | 8260D | | 10 | 5 mL | 5 mL | 651420 | 11/22/23 21:17 | BPO | EET PEN |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-18
**Date Collected: 11/11/23 11:16**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-15
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 18:37 | BPO | EET PEN |

## Client Sample ID: MW-19
**Date Collected: 11/11/23 11:24**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-16
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 19:03 | BPO | EET PEN |

## Client Sample ID: MW-20
**Date Collected: 11/11/23 12:04**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-17
**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 | 8260D | | 5 | 5 mL | 5 mL | 651420 | 11/22/23 20:24 | BPO | EET PEN |

## Client Sample ID: MW-22
**Date Collected: 11/11/23 11:30**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-18
**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 | 8260D | RA | 20 | 5 mL | 5 mL | 652102 | 11/29/23 15:50 | BPO | EET PEN |
| Total/NA | Analysis | 8260D | | 20 | 5 mL | 5 mL | 651420 | 11/22/23 22:11 | BPO | EET PEN |

## Client Sample ID: MW-23
**Date Collected: 11/11/23 12:09**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-19
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 19:30 | BPO | EET PEN |

## Client Sample ID: MW-24
**Date Collected: 11/11/23 09:43**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-20
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 19:57 | BPO | EET PEN |

## Client Sample ID: MW-25
**Date Collected: 11/11/23 12:16**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-21
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 12:49 | BPO | EET PEN |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: DUP-01
**Date Collected: 11/11/23 12:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-22
**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 | 8260D | | 1 | 5 mL | 5 mL | 651419 | 11/22/23 17:34 | BPO | EET PEN |

## Client Sample ID: DUP-02
**Date Collected: 11/11/23 12:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-23
**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 | 8260D | | 1 | 5 mL | 5 mL | 651419 | 11/22/23 17:59 | BPO | EET PEN |

## Client Sample ID: TB-01
**Date Collected: 11/11/23 09:00**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-24
**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 | 8260D | | 1 | 5 mL | 5 mL | 651419 | 11/22/23 17:09 | BPO | EET PEN |

## Client Sample ID: Method Blank
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: MB 400-651212/3
**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 | 8260D | | 1 | 5 mL | 5 mL | 651212 | 11/21/23 12:15 | BPO | EET PEN |

## Client Sample ID: Method Blank
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: MB 400-651377/3
**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 | 8260D | | 1 | 5 mL | 5 mL | 651377 | 11/21/23 18:37 | BPO | EET PEN |

## Client Sample ID: Method Blank
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: MB 400-651419/3
**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 | 8260D | | 1 | 5 mL | 5 mL | 651419 | 11/22/23 11:43 | BPO | EET PEN |

## Client Sample ID: Method Blank
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: MB 400-651420/3
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 11:54 | BPO | EET PEN |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: Method Blank
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: MB 400-652102/3
**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 | 8260D | | 1 | 5 mL | 5 mL | 652102 | 11/29/23 12:04 | BPO | EET PEN |

## Client Sample ID: Lab Control Sample
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: LCS 400-651212/1001
**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 | 8260D | | 1 | 5 mL | 5 mL | 651212 | 11/21/23 10:48 | BPO | EET PEN |

## Client Sample ID: Lab Control Sample
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: LCS 400-651377/1001
**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 | 8260D | | 1 | 5 mL | 5 mL | 651377 | 11/21/23 17:37 | BPO | EET PEN |

## Client Sample ID: Lab Control Sample
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: LCS 400-651419/1001
**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 | 8260D | | 1 | 5 mL | 5 mL | 651419 | 11/22/23 10:24 | BPO | EET PEN |

## Client Sample ID: Lab Control Sample
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: LCS 400-651420/1001
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 09:54 | BPO | EET PEN |

## Client Sample ID: Lab Control Sample
**Date Collected: N/A**
**Date Received: N/A**

## Lab Sample ID: LCS 400-652102/1001
**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 | 8260D | | 1 | 5 mL | 5 mL | 652102 | 11/29/23 10:58 | BPO | EET PEN |

## Client Sample ID: MW-25
**Date Collected: 11/11/23 12:16**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-21 MS
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 15:29 | BPO | EET PEN |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

## Client Sample ID: MW-25
**Date Collected: 11/11/23 12:16**
**Date Received: 11/14/23 08:56**

## Lab Sample ID: 400-246679-21 MSD
**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 | 8260D | | 1 | 5 mL | 5 mL | 651420 | 11/22/23 15:56 | BPO | EET PEN |

**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: Johnston Federal #4.00

Job ID: 400-246679-1

## GC/MS VOA

### Analysis Batch: 651212

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-246679-2 | MW-2 | Total/NA | Water | 8260D | |
| 400-246679-3 | MW-3 | Total/NA | Water | 8260D | |
| 400-246679-4 | MW-4 | Total/NA | Water | 8260D | |
| MB 400-651212/3 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-651212/1001 | Lab Control Sample | Total/NA | Water | 8260D | |

### Analysis Batch: 651377

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-246679-6 | MW-9 | Total/NA | Water | 8260D | |
| 400-246679-8 | MW-11 | Total/NA | Water | 8260D | |
| 400-246679-9 | MW-12 | Total/NA | Water | 8260D | |
| 400-246679-10 | MW-13 | Total/NA | Water | 8260D | |
| 400-246679-11 | MW-14 | Total/NA | Water | 8260D | |
| MB 400-651377/3 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-651377/1001 | Lab Control Sample | Total/NA | Water | 8260D | |

### Analysis Batch: 651419

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-246679-22 | DUP-01 | Total/NA | Water | 8260D | |
| 400-246679-23 | DUP-02 | Total/NA | Water | 8260D | |
| 400-246679-24 | TB-01 | Total/NA | Water | 8260D | |
| MB 400-651419/3 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-651419/1001 | Lab Control Sample | Total/NA | Water | 8260D | |

### Analysis Batch: 651420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-246679-1 | MW-1 | Total/NA | Water | 8260D | |
| 400-246679-5 | MW-6 | Total/NA | Water | 8260D | |
| 400-246679-7 | MW-10 | Total/NA | Water | 8260D | |
| 400-246679-12 | MW-15 | Total/NA | Water | 8260D | |
| 400-246679-13 | MW-16 | Total/NA | Water | 8260D | |
| 400-246679-14 | MW-17 | Total/NA | Water | 8260D | |
| 400-246679-15 | MW-18 | Total/NA | Water | 8260D | |
| 400-246679-16 | MW-19 | Total/NA | Water | 8260D | |
| 400-246679-17 | MW-20 | Total/NA | Water | 8260D | |
| 400-246679-18 | MW-22 | Total/NA | Water | 8260D | |
| 400-246679-19 | MW-23 | Total/NA | Water | 8260D | |
| 400-246679-20 | MW-24 | Total/NA | Water | 8260D | |
| 400-246679-21 | MW-25 | Total/NA | Water | 8260D | |
| MB 400-651420/3 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-651420/1001 | Lab Control Sample | Total/NA | Water | 8260D | |
| 400-246679-21 MS | MW-25 | Total/NA | Water | 8260D | |
| 400-246679-21 MSD | MW-25 | Total/NA | Water | 8260D | |

### Analysis Batch: 652102

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-246679-18 - RA | MW-22 | Total/NA | Water | 8260D | |
| MB 400-652102/3 | Method Blank | Total/NA | Water | 8260D | |
| LCS 400-652102/1001 | Lab Control Sample | Total/NA | Water | 8260D | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

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

**Lab Sample ID: MB 400-651212/3**
**Matrix: Water**
**Analysis Batch: 651212**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 12:15 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 12:15 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 12:15 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/21/23 12:15 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *106* | | *72 - 130* | | *11/21/23 12:15* | *1* |
| *Dibromofluoromethane* | *109* | | *75 - 126* | | *11/21/23 12:15* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/21/23 12:15* | *1* |

**Lab Sample ID: LCS 400-651212/1001**
**Matrix: Water**
**Analysis Batch: 651212**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 49.3 | | ug/L | | 99 | 70 - 130 |
| m-Xylene & p-Xylene | 50.0 | 48.7 | | ug/L | | 97 | 70 - 130 |
| o-Xylene | 50.0 | 46.9 | | ug/L | | 94 | 70 - 130 |
| Ethylbenzene | 50.0 | 49.1 | | ug/L | | 98 | 70 - 130 |
| Toluene | 50.0 | 49.8 | | ug/L | | 100 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *67 - 134* |
| *4-Bromofluorobenzene* | *107* | | *72 - 130* |
| *Dibromofluoromethane* | *108* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* |

**Lab Sample ID: MB 400-651377/3**
**Matrix: Water**
**Analysis Batch: 651377**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 18:37 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 18:37 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/21/23 18:37 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/21/23 18:37 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *110* | | *72 - 130* | | *11/21/23 18:37* | *1* |
| *Dibromofluoromethane* | *95* | | *75 - 126* | | *11/21/23 18:37* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *64 - 132* | | *11/21/23 18:37* | *1* |

**Lab Sample ID: LCS 400-651377/1001**
**Matrix: Water**
**Analysis Batch: 651377**

**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 | 45.2 | | ug/L | | 90 | 70 - 130 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

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

**Lab Sample ID: LCS 400-651377/1001**
**Matrix: Water**
**Analysis Batch: 651377**

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

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| m-Xylene & p-Xylene | | | 50.0 | 52.1 | | ug/L | | 104 | 70 - 130 | | |
| o-Xylene | | | 50.0 | 48.9 | | ug/L | | 98 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 49.9 | | ug/L | | 100 | 70 - 130 | | |
| Toluene | | | 50.0 | 48.5 | | ug/L | | 97 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *124* | | *67 - 134* |
| *4-Bromofluorobenzene* | *109* | | *72 - 130* |
| *Dibromofluoromethane* | *97* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *105* | | *64 - 132* |

**Lab Sample ID: MB 400-651419/3**
**Matrix: Water**
**Analysis Batch: 651419**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 11:43 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 11:43 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 11:43 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 11:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *108* | | *72 - 130* | | *11/22/23 11:43* | *1* |
| *Dibromofluoromethane* | *100* | | *75 - 126* | | *11/22/23 11:43* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *64 - 132* | | *11/22/23 11:43* | *1* |

**Lab Sample ID: LCS 400-651419/1001**
**Matrix: Water**
**Analysis Batch: 651419**

**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 | 43.4 | | ug/L | | 87 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 50.0 | 49.2 | | ug/L | | 98 | 70 - 130 | | |
| o-Xylene | | | 50.0 | 45.6 | | ug/L | | 91 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 46.8 | | ug/L | | 94 | 70 - 130 | | |
| Toluene | | | 50.0 | 45.7 | | ug/L | | 91 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *121* | | *67 - 134* |
| *4-Bromofluorobenzene* | *108* | | *72 - 130* |
| *Dibromofluoromethane* | *98* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *102* | | *64 - 132* |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

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

**Lab Sample ID: MB 400-651420/3**
**Matrix: Water**
**Analysis Batch: 651420**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 11:54 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 11:54 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/22/23 11:54 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/22/23 11:54 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *110* | | *72 - 130* | | *11/22/23 11:54* | *1* |
| *Dibromofluoromethane* | *110* | | *75 - 126* | | *11/22/23 11:54* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *64 - 132* | | *11/22/23 11:54* | *1* |

**Lab Sample ID: LCS 400-651420/1001**
**Matrix: Water**
**Analysis Batch: 651420**

**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 | 43.9 | | ug/L | | 88 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 50.0 | 45.6 | | ug/L | | 91 | 70 - 130 | | |
| o-Xylene | | | 50.0 | 42.8 | | ug/L | | 86 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 44.0 | | ug/L | | 88 | 70 - 130 | | |
| Toluene | | | 50.0 | 44.6 | | ug/L | | 89 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *110* | | *67 - 134* |
| *4-Bromofluorobenzene* | *107* | | *72 - 130* |
| *Dibromofluoromethane* | *107* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *101* | | *64 - 132* |

**Lab Sample ID: 400-246679-21 MS**
**Matrix: Water**
**Analysis Batch: 651420**

**Client Sample ID: MW-25**
**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 | 44.0 | | ug/L | | 88 | 56 - 142 | | |
| m-Xylene & p-Xylene | <5.0 | | 50.0 | 42.1 | | ug/L | | 84 | 57 - 130 | | |
| o-Xylene | <5.0 | | 50.0 | 40.2 | | ug/L | | 80 | 61 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 41.5 | | ug/L | | 83 | 58 - 131 | | |
| Toluene | <1.0 | | 50.0 | 43.4 | | ug/L | | 87 | 65 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *67 - 134* |
| *4-Bromofluorobenzene* | *109* | | *72 - 130* |
| *Dibromofluoromethane* | *106* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *102* | | *64 - 132* |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4.00

Job ID: 400-246679-1

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

**Lab Sample ID: 400-246679-21 MSD**
**Matrix: Water**
**Analysis Batch: 651420**

**Client Sample ID: MW-25**
**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 | 42.4 | | ug/L | | 85 | 56 - 142 | 4 | 30 |
| m-Xylene & p-Xylene | <5.0 | | 50.0 | 32.2 | | ug/L | | 64 | 57 - 130 | 26 | 30 |
| o-Xylene | <5.0 | | 50.0 | 32.3 | | ug/L | | 65 | 61 - 130 | 22 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 32.8 | | ug/L | | 66 | 58 - 131 | 23 | 30 |
| Toluene | <1.0 | | 50.0 | 38.8 | | ug/L | | 78 | 65 - 130 | 11 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *67 - 134* |
| *4-Bromofluorobenzene* | *110* | | *72 - 130* |
| *Dibromofluoromethane* | *106* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *103* | | *64 - 132* |

**Lab Sample ID: MB 400-652102/3**
**Matrix: Water**
**Analysis Batch: 652102**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/29/23 12:04 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/29/23 12:04 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/29/23 12:04 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/29/23 12:04 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *105* | | *72 - 130* | | *11/29/23 12:04* | *1* |
| *Dibromofluoromethane* | *100* | | *75 - 126* | | *11/29/23 12:04* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *64 - 132* | | *11/29/23 12:04* | *1* |

**Lab Sample ID: LCS 400-652102/1001**
**Matrix: Water**
**Analysis Batch: 652102**

**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 | 47.4 | | ug/L | | 95 | 70 - 130 |
| m-Xylene & p-Xylene | 50.0 | 51.8 | | ug/L | | 104 | 70 - 130 |
| o-Xylene | 50.0 | 49.5 | | ug/L | | 99 | 70 - 130 |
| Ethylbenzene | 50.0 | 50.4 | | ug/L | | 101 | 70 - 130 |
| Toluene | 50.0 | 49.3 | | ug/L | | 99 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *122* | | *67 - 134* |
| *4-Bromofluorobenzene* | *104* | | *72 - 130* |
| *Dibromofluoromethane* | *99* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *100* | | *64 - 132* |

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

# Chain of Custody Record

eurofins | Environment Testing

400-246679 COC

| Client Information | Sampler: SRC/ERB | Lab PM: Whitmire, Cheyenne R | Carr | COC No: 400-124035-41341.1 |
|---|---|---|---|---|
| Client Contact: Joe Wiley | Phone: 575-253-0830 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State | Page: Page 1 of 3 |
| Company: El Paso Energy Corporation | PWSID | | | Job #: |
| Address: 1001 Louisiana Street Room S1905B | Due Date Requested: STD | | | |
| City: Houston | TAT Requested (days): | | | |
| State, Zip: TX, 77002 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040031 | | | |
| Email: joe.wiley@kindermorgan.com | WO #: Johnston Federal #4_ERG_ARF_10_24_2023 | | | |
| Project Name: Johnston Federal #4.00 | Project #: 40015823 | | | |
| Site | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

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

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | 8260D - BTEX - 8260 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | A | | |
| MW-1 | 11/1/2023 | 0950 | G | Water | N | X | | |
| MW-2 | 11/1/2023 | 1000 | G | Water | N | X | | |
| MW-3 | 11/1/2023 | 1008 | G | Water | N | X | | |
| MW-4 | 11/1/2023 | 1019 | G | Water | N | X | | |
| MW-6 | 11/1/2023 | 1136 | G | Water | N | X | | |
| MW-9 | 11/1/2023 | 1025 | G | Water | N | X | | |
| MW-10 | 11/1/2023 | 1029 | G | Water | N | X | | |
| MW-11 | 11/1/2023 | 1036 | G | Water | N | X | | |
| MW-12 | 11/1/2023 | 1042 | G | Water | N | X | | |
| MW-13 | 11/1/2023 | 1047 | G | Water | N | X | | |
| MW-14 | 11/1/2023 | 1053 | G | Water | N | X | | |

ERB

***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 |
|---|---|---|---|---|---|
| Emily | 11/13/2023 1250 | SN | T.E. | 11/14/23 0800 | |
| 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: 0.0°C IR |
|---|---|---|

Ver: 06/08/2021

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: SRC/ERB | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-124035-41341.2 |
|---|---|---|---|---|
| Client Contact: Joe Wiley | Phone: 515-253-0830 | E-Mail: Cheyenne Whitmire@et.eurofinsus.com | State of Origin: | Page: Page 2 of 3 |
| Company: El Paso Energy Corporation | PWSID: | | | Job #: |
| Address: 1001 Louisiana Street Room S1905B | Due Date Requested: STD | | | |
| City: Houston | TAT Requested (days): | | | |
| State, Zip: TX, 77002 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040031 | | | |
| Email: joe.wiley@kindermorgan.com | WO #: Johnston Federal #4_ERG_ARF_10_24_2023 | | | |
| Project Name: Johnston Federal #4.00 | Project #: 40015823 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

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

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | 8260D - BTEX - 8260 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | |
| MW-15 | 11/1/2023 | 1058 | G | Water | N | N X | | |
| MW-16 | 11/1/2023 | 1104 | G | Water | N | N X | | |
| MW-17 | 11/1/2023 | 1111 | G | Water | N | N X | | |
| MW-18 | 11/1/2023 | 1116 | G | Water | N | N X | | |
| MW-19 | 11/1/2023 | 1124 | G | Water | N | N X | | |
| MW-20 | 11/1/2023 | 1204 | G | Water | N | N X | | |
| MW-22 | 11/1/2023 | 1130 | G | Water | N | N X | | |
| MW-23 | 11/1/2023 | 1209 | G | Water | N | N X | | |
| MW-24 | 11/1/2023 | 0943 | G | Water | N | N X | | |
| MW-25 | 11/1/2023 | 1216 | G | Water | N | N X | | |
| DUP-01 | 11/1/2023 | — | G | Water | N | N X | | |

ERB

**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 |
|---|---|---|---|---|---|---|
| | Eva Reilly | 11/13/2023 1250 | STN | T.E. | 11.14.23 0856 | |
| | 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. |
|---|---|---|
| | | 0.0 °C IR |

Ver: 06/08/2021

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: SRC/ERB | Lab PM: Whitmire, Cheyenne R | Carrier Tracking No(s): | COC No: 400-124035-41341.3 |
|---|---|---|---|---|
| Client Contact: Joe Wiley | Phone: 515-253-0830 | E-Mail: Cheyenne.Whitmire@et.eurofinsus.com | State of Origin: | Page: Page 3 of 3 |
| Company: El Paso Energy Corporation | PWSID: | | | Job #: |
| Address: 1001 Louisiana Street Room S1905B | Due Date Requested: STD | | | |
| City: Houston | TAT Requested (days): | | | |
| State, Zip: TX, 77002 | Compliance Project: Δ Yes Δ No | | | |
| Phone: | PO #: WD1040031 | | | |
| Email: joe.wiley@kindermorgan.com | WO #: Johnston Federal #4_ERG_ARF_10_24_2023 | | | |
| Project Name: Johnston Federal #4.00 | Project #: 40015823 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

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

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | 8260D - BTEX - 8260 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | X | A | | |
| DUP-02 | 11/1/2023 | — | G | Water | N | X | | |
| TB-01 | 11/1/2023 | 0900 | G | Water | N | X | | |
| | | | | Water | | | | |
| | | | | Water | | | | |
| | | | | Water | | | | |

ERB

ERB

**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 |
|---|---|---|---|---|---|
| Eva Kelly | 11/13/2023 1250 | STN | T.E. | 11-14-23 0804 | |
| 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: 0.0°C IR8 |
|---|---|---|

Ver: 06/08/2021

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-246679-1

**Login Number: 246679** **List Source: Eurofins Pensacola**
**List Number: 1**
**Creator: Roberts, Alexis J**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 0.0°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: 400-246679-1
Project/Site: Johnston Federal #4.00

## 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 | 06-30-24 |
| ANAB | ISO/IEC 17025 | L2471 | 02-22-26 |
| Arkansas DEQ | State | 88-00689 | 08-01-24 |
| California | State | 2510 | 06-30-24 |
| Florida | NELAP | E81010 | 06-30-24 |
| Georgia | State | E81010(FL) | 06-30-24 |
| Illinois | NELAP | 200041 | 10-09-24 |
| Kansas | NELAP | E-10253 | 10-31-24 |
| Kentucky (UST) | State | 53 | 06-30-24 |
| Louisiana (All) | NELAP | 30976 | 06-30-24 |
| Louisiana (DW) | State | LA017 | 12-31-23 |
| North Carolina (WW/SW) | State | 314 | 12-31-23 |
| Oklahoma | NELAP | 9810 | 08-31-24 |
| Pennsylvania | NELAP | 68-00467 | 01-31-24 |
| South Carolina | State | 96026 | 06-30-24 |
| Tennessee | State | TN02907 | 06-30-24 |
| Texas | NELAP | T104704286 | 09-30-24 |
| US Fish & Wildlife | US Federal Programs | A22340 | 06-30-24 |
| USDA | US Federal Programs | P330-21-00056 | 05-17-24 |
| USDA | US Federal Programs | FLGNV23001 | 01-08-26 |
| Virginia | NELAP | 460166 | 06-14-24 |
| West Virginia DEP | State | 136 | 03-31-24 |
| West Virginia DEP | State | 136 | 03-31-24 |

**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 325472

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| El Paso Natural Gas Company, L.L.C<br>1001 Louisiana Street<br>Houston, TX 77002 | 7046 |
| | Action Number:<br>325472 |
| | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| michael.buchanan | Review of the Johnston Fed #4 Site, 2023 Annual Groundwater Monitoring Report: content satisfactory 1. Continue to conduct semi-annual monitoring for groundwater as prescribed for those wells not conveying LNAPL. 2. The OCD was notified on 11/22/2023 of installation activities for the SVE system and approximately when that would be installed, at the beginning of 2024. 3. Keep OCD abreast of what is operating currently at the site for SVE and AS, and what the status is for those systems. 4. Submit the 2024 annual report to OCD by April 1, 2025. | 9/4/2024 |