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2022 ANNUAL GROUNDWATER REPORT

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

Review of the 2022 ANNUAL GROUNDWATER REPORT: Content satisfactory

1. Continue to follow "Planned Future Activities" as noted within this report.
2. Submit next annual groundwater report to OCD no later than April 1, 2024.

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

The Site is located on Private/Fee land. An initial site assessment was completed in August 1994, and an excavation of 60 cubic yards (cy) to a depth of approximately 12 feet below ground surface (bgs) was completed in September 1994. Monitoring wells were installed in 1995 (MW-1, MW-2, MW-3), 2006 (MW-4, TMW-5), 2013 (MW-6 through MW-12), 2014 (MW-13 through MW-20), 2020 (MW-21 through MW-23) and 2022 (MW-24 and MW-25). Remediation wells were installed in 2018 (TW-1, TW-2, and SVE-1), 2020 (AS-3 through AS-22 and SVE-2 through SVE-8), and 2022 (SVE-12 through SVE-14). Temporary monitoring well TMW-5 was plugged and abandoned in 2014. The location of the Site is depicted on Figure 1. A Site Plan map depicting the locations of monitoring wells and current and historical site features is provided as Figure 2.

Light non-aqueous-phase liquid (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 2022. A 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.

WELL INSTALLATION ACTIVITIES

Monitoring and remediation well installation activities were conducted from October 18 to 24, 2022, in accordance with the September 26, 2022, Well Installation Activities Workplan. NMOCD was notified of the planned start of these activities via email on September 28, 2022 (Appendix A). The proposed well locations were staked during a previous mobilization prior to completion of New Mexico 811 locates. Prior to advancement of drill augers, each well location was also cleared to a depth of up to 8 feet bgs using hydro-vacuum methods to confirm the absence of subsurface utilities or other obstructions.

Two monitoring wells (MW-24 and MW-25) were installed to better characterize the dissolved-phase hydrocarbons at the site. Four soil vapor extraction (SVE) wells (SVE-9 through SVE-12) were installed to facilitate future active remediation through SVE methods. Following completion, the ground surface and top-of-casing (TOC) elevations for the new monitoring wells were surveyed by Stantec.

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Monitoring wells MW-24 and MW-25 were constructed of 2-inch-diameter, Schedule 40, 0.010-slot polyvinyl chloride (PVC) screen and 2-inch-diameter, Schedule 40 PVC riser casing. For each monitoring well, a 20-foot screen was installed to intersect the groundwater surface and provide sufficient water column for sample collection. Total depths of the monitoring wells were 55 feet bgs for MW-24 and 60 feet bgs for MW-25. The riser casing for each monitoring well was installed from the top of the screen to approximately 2.5 feet above the ground surface. The annular space adjacent to the well screen was filled with silica sand from the bottom of the borehole to 2 feet above the top of the screen. Three feet of hydrated bentonite chips were placed above the sand pack. Bentonite grout was placed above the bentonite chips to 6 inches below the bottom of the well vault. Lockable, stick-up completions were installed over each monitoring well and 3 concrete-filled bollards were installed around each monitoring well to prevent vehicular damage.

Each SVE well was constructed to a maximum depth of 50 feet bgs. The SVE wells were each completed with 10 feet of schedule 40 PVC screen, 4-inch diameter, with 0.01-inch slots. The annular space adjacent to each screen was filled with silica sand from the bottom of the borehole to 1 foot above the top of the screen. A three-foot layer of hydrated bentonite chips was placed above the top of the sand. Bentonite grout was placed above the chips to approximately 3 feet bgs. The remaining annular space was filled with sand and native fill. A lockable compression cap was placed on the top of each well casing. The SVE wells were installed below grade, buried with an irrigation-style protective cover over the top of the well, and staked for location during future system installation activities.

During advancement of each monitoring well, soil sampling was conducted continuously to the termination depth of the soil boring to assess potential hydrocarbon impacts at each location. One soil sample per boring, selected by highest photoionization detector (PID) response (or directly above field-apparent water table) was collected and placed in laboratory-provided 4-ounce jars and shipped on ice under standard chain-of-custody protocol to Eurofins Environment Testing Southeast, LLC (Eurofins) in Pensacola, Florida. The samples were analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method SW846 8021B; gasoline-range organics, diesel-range organics, and oil-range organics by EPA Method 8015M; and chlorides by EPA Method 300.

During advancement of each SVE well, each borehole was blind drilled to a depth of 35 feet bgs, at which point continuous soil sampling was completed to the termination depth of the boring. This soil sampling was completed to log lithology and field screen soil samples immediately above and within the planned screened intervals. No soil samples were retained for laboratory analysis from the SVE well locations.

Development of monitoring wells MW-24 and MW-25 was performed using well swab surging and pumping until sediment had been removed and visibly clear water was observed. Following development activities, HydraSleeve™ (HydraSleeve) sampling bags were set in MW-24 and MW-25 approximately 0.5 feet above the bottom of the screened interval. The well swab and down-hole pump were decontaminated between wells. No development was completed on the SVE wells.

Borehole logs and well construction diagrams, and associated New Mexico Office of the State Engineer forms, for MW-24, MW-25, and SVE 9 to SVE-12 are provided in Appendix B.

Development and decontamination water were containerized and transported to Envirotech, Inc., (Envirotech) located south of Bloomfield, New Mexico for disposal. A copy of the wastewater disposal

documentation is included in Appendix C. Soil cuttings were loaded into a lined roll-off staged at the Site, which was removed and disposed of at Envirotech. Envirotech's soil disposal documentation is included 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, 2022 and October 26, 2022, prior to initiating groundwater sampling activities at the Site. Copies of the 2022 NMOCD notifications are provided in Appendix A.

Groundwater monitoring and sampling was completed on May 20 and November 5, 2022. Water levels were gauged at monitoring wells MW-1 through MW-4, and MW-6 through MW-23, during the May event and at monitoring wells MW-1 through MW-4, and MW-6 through MW-25 during the November event. During the May sampling event, monitoring wells MW-6, MW-9, MW-13, MW-15 through MW-20, and MW-23 were sampled. During the November sampling event, monitoring wells MW-2, MW-4, MW-6, MW-9, MW-12 through MW-20, and MW-23 through MW-25 were sampled. Groundwater samples were collected from selected monitoring wells using HydraSleeve no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the bottom of the well screen.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins, where they were analyzed for BTEX using 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 for disposal. Waste disposal documentation is included in Appendix C.

LNAPL SKIMMER SYSTEM INSTALLATION

Beginning August 26 through 27, 2022, Stantec oversaw the installation of a LNAPL Solar Skimmer system and associated equipment for use to recover LNAPL from MW-21 at the site. The system is enclosed in a Container Express container (CONEX). Sierra Oilfield Services, Inc. (Sierra) was contracted to acquire and refurbish the CONEX, prep the site around MW-21, transport and place the system, and assist with on-going Operation and Maintenance (O&M) activities. Taft Electric, Inc. (Taft) was contracted to install solar panels and make connections between the panels, system components, and deep cycle batteries. The work proceeded in accordance with the work plan submitted to NMOCD on August 19, 2022, without significant deviation. The NMOCD was also notified of the start of the installation activities on August 19, 2022 (Appendix A).

Daily Report Forms summarizing the work performed each day are included as Appendix E. A photolog showing construction details and the final site condition is provided in Appendix F. The final configuration of the remediation infrastructure and other improvements is depicted on Figure 2.

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The skimmer system consists of a Geotech Solar Sipper LNAPL skimmer and pump installed at MW-21. The 20-foot by 8-foot by 8.5-foot-tall steel CONEX houses the skimmer system and has a hole in the floor allowing the CONEX to be placed over MW-21 to secure the pump, controller, drum, and associated spill pallet. The system is powered by solar panels mounted on top of the CONEX, with a battery bank located inside an inset within the unit, segregated from the remainder of the interior of the CONEX. Solar-powered roof fans and passive vents provide ventilation inside the CONEX, and the atmosphere inside the CONEX is monitored for explosive vapors prior to entering through an access port in the side of the CONEX. LNAPL accumulation (into a 55-gallon drum) is monitored and actuated by a flashing beacon (visible on cellular camera) and high-level shutoff, respectively. In February 2023, a manual high-level indicator was also installed.

The skimmer system is remotely monitored by a cellular security camera system and regular inspections. Collection of accumulated LNAPL data and maintenance of the system are performed on a regular basis. LNAPL thickness measurements and recovery amounts in MW-21 since system start-up are presented on Table 1. Recovered LNAPL will be transported from the Site for disposal at Envirotech.

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 2022 is provided in Appendix A.

LNAPL was observed and recovered in monitoring wells MW-3, MW-7, MW-8, MW-21, and MW-22 during all four events in 2022. In November 2022 LNAPL was also observed in MW-1.

The LNAPL recovery data is summarized on Table 1. 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 site visit was transported for disposal at Basin Disposal, Inc. in Bloomfield, NM and recovered LNAPL from the August site visit was disposed at Envirotech (Appendix C).

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. Soil analytical results are summarized in Table 4.

SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2022 groundwater sampling and gauging events. Soil analytical results are depicted in Figure 7.

ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix G. The soil analytical report is included in Appendix H.

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GROUNDWATER RESULTS

- Groundwater elevations indicate the groundwater flow direction at the Site was generally to the east-southeast during 2022 (see Figures 4 and 6).
- LNAPL was observed in MW-3, MW-7, MW-8, MW-21, and MW-22 in 2022; therefore, no groundwater samples were collected at these locations. LNAPL also was observed in MW-1 during the November event and no groundwater sample was collected from this location.
- One or more groundwater samples collected in 2022 from MW-9, MW-10, MW-11, MW-13, MW-15, MW-20, 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 2022 were either below the NMWQCC standard or were not detected.
- Concentrations of toluene in the samples collected from site monitoring wells in 2022 were either below the NMWQCC standard (750 µg/L) 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 2022.
- Concentrations of total xylenes in the samples collected from site monitoring wells in 2022 were either below the NMWQCC standard (620 µg/L) or were not detected.
- A field duplicate was collected from monitoring well MW-18 in May 2022 and from MW-6 and MW-2 in November 2022. The relative percent difference for benzene in the May 2022 primary/duplicate pair collected from MW-18 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, and it is noted the reported benzene concentrations were both below the applicable NMWQCC standard. No 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 2022 groundwater monitoring events.

SOIL RESULTS

- Soil samples were collected during advancement of monitoring wells MW-24 and MW-25. Results are shown in tabular format in Table 4 and graphically in Figure 7.
- Benzene was not detected in the soil samples collected during advancement of MW-24 and MW-25.
- Total BTEX was detected below the NMOCD criteria (50 mg/kg) in the soil sample collected during advancement of MW-24 and was not detected in the soil sample collected during advancement of MW-25.
- TPH was not detected in the soil samples collected during advancement of MW-24 and MW-25.
- Chloride was not detected in the soil samples collected during advancement of MW-24 and MW-25.

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PLANNED FUTURE ACTIVITIES

Groundwater monitoring events will be conducted on a semi-annual basis, utilizing 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 2023.

Installation of a remediation system is contingent on obtaining a power source for the system, which is being coordinated with the site operator, and upgrades to remediation system equipment being completed for EPCGP at another location. Once a power source agreement has been finalized and remediation system upgrades have been completed, a work plan for the installation and start-up of a SVE system will be prepared and submitted under separate cover.

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 2023, and their results, will be summarized in the 2023 Annual Report, to be completed for submittal by April 1, 2024.

TABLES

TABLE 1 – LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY

TABLE 2 – GROUNDWATER ANALYTICAL RESULTS

TABLE 3 – GROUNDWATER ELEVATION RESULTS

TABLE 4 – SOIL ANALYTICAL RESULTS

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
3/23/2022	52.33	52.37	0.04	<0.01	0.09	manual
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	

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY
Johnston Federal #4

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
			Total:	18.2	316	

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
11/30/2016	50.89	51.49	0.60	13.2	798	MDPE*
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
			Total:	151.4	8151	

TABLE 1
LIGHT NON-AQUEOUS PHASE LIQUID RECOVERY SUMMARY
Johnston Federal #4

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
11/12/2019	51.94	52.53	0.59	0.34	0.32	manual
5/17/2020	52.02	52.79	0.77	0.42	0.50	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:	99.7	816	

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	1.50	Solar Skimmer
10/14/2022	50.39	50.42	0.03	<0.01	<0.01	Solar Skimmer
			Total:	6.5	3.31	

Well ID - MW-22						
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
3/23/2022	49.82	50.08	0.26	0.03	0.19	manual
5/20/2022	49.80	50.02	0.22	0.03	0.06	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
			Total:	0.3	2.1	

Notes:
NM = Not Measured. Measured thickness was obtained by measuring the thickness within a bailer.
ND = Not Detected.
* = Includes calculated recovered hydrocarbon vapors.
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
MW-1	09/24/10	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-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	03/18/21	NS	NS	NS	NS
MW-1	05/18/21	NS	NS	NS	NS
MW-1	08/22/21	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-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
MW-2	06/18/03	186	<5	34.9	16.8
MW-2	09/16/03	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	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
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

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	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
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
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

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	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
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	08/22/21	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	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-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
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

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	05/17/20	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	11/05/22	<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
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

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-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-1(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-1(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-1(MW-6)*	11/05/22	<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
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	08/22/21	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-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

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-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	08/22/21	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-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
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	11/05/22	39	<1.0	<1.0	<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

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-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-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
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	08/22/21	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-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

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-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	11/05/22	<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
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-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

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-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	11/05/22	4.4	<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
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-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
DP-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

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-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	11/05/22	1.6	<1.0	<1.0	<10
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
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-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-1(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-1(MW-18)*	05/18/21	7.4	<0.41	2.2	15
MW-18	11/15/21	4.7	<1.0	1.6	11

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-18	05/20/22	7.9	<1.0	1.6	11
DUP-1(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-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
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-2(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-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-1(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

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	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	08/22/21	NS	NS	NS	NS
MW-21	11/15/21	NS	NS	NS	NS
MW-21	05/20/22	NS	NS	NS	NS
MW-21	11/05/22	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	08/22/21	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-23	05/17/20	3.3	4	1.7	15
MW-23	11/13/20	<1.0	<1.0	<1.0	<10
DUP-1(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-24	11/05/22	100	2.4	20	47
MW-25	11/05/22	<1.0	<1.0	8.7	31

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

TABLE 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-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

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	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
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

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	05/14/12	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-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
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

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	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
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

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	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-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
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

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	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
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
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

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	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
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-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

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-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-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
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

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	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-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
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	11/05/22	6073.57	ND	52.36		6021.21
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

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-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	11/05/22	6073.42	ND	52.27		6021.15
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
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-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

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-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	11/05/22	6073.32	ND	47.92		6025.40
MW-13	10/23/14	6073.25	ND	51.62		6021.63
MW-13	05/29/15	6073.25	ND	51.69		6021.56
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-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

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-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	11/05/22	6073.14	ND	51.92		6021.22
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
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-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

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-16	05/20/22	6071.78	ND	51.08		6020.70
MW-16	11/05/22	6071.78	ND	50.80		6020.98
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
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-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-19	10/23/14	6074.00	ND	52.41		6021.59
MW-19	05/29/15	6074.00	ND	52.48		6021.52

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	11/23/15	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
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-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-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

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	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
MW-21	08/28/22	6071.17	ND	50.56	0.00	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	0.00	6020.87
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	0.00	6020.82
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-24	11/05/22	6070.20	ND	50.20		6020.00
MW-25	11/05/22	6069.28	ND	50.60		6018.68
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

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	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)

TABLE 4 - SOIL ANALYTICAL RESULTS

Johnston Federal #4																
Location	Date	Benzene (mg/kg)		Toluene (mg/kg)		Ethylbenzene (mg/kg)		Total Xylenes (mg/kg)	BTEX Total (mg/kg)	GRO C6-10 (mg/kg)	DRO C10-28 (mg/kg)	MRO C28-35 (mg/kg)	TPH (mg/kg)		Chloride (mg/kg)	
NMOCD Criteria:		10		NE		NE		NE	50	NE	NE	NE	100		600	
MW-6 (47.5-50)	11/06/13	0.037	J	0.50		0.17		2.0	2.71	--	--	--	**150**		81	
MW-7 (43-45)	11/02/13	BDL		0.24		0.37		5.1	5.71	--	--	--	33	J	59	
MW-8 (47.5-50)	11/04/13	BDL		0.19		0.17		2.4	2.76	--	--	--	**620**		83	
MW-9 (53-55)	11/07/13	0.031	J	0.51		0.32		3.1	3.96	--	--	--	**150**		27	J
MW-10 (52.5-55)	11/06/13	0.018	J	0.09		0.023	J	0.27	0.401	--	--	--	**630**		32	J
MW-11 (50-52.5)	11/04/13	BDL		0.040	J	0.098	J	1.6	1.738	--	--	--	**170**		82	
MW-12 (22.5-25)	11/05/13	BDL		BDL		BDL		BDL	BDL	--	--	--	**120**		18	J
MW-13 (50-52)	08/10/14	0.00497	J	BDL		0.0318		BDL	0.03677	--	--	--	**1000**	H	2.19	J
MW-14 (38-40)	08/07/14	BDL		BDL		BDL		BDL	BDL	--	--	--	BDL	H	3.42	J
MW-15 (48-50)	08/08/14	1.64		13.6		2.34		25.5	43.08	--	--	--	**2100**	H	3.55	J
MW-16 (48-50)	08/09/14	0.144		1.25		0.302		4.03	5.726	--	--	--	46	H	4.07	
MW-17 (46-48)	08/12/14	0.0754	J	0.480		0.367		4.35	5.2724	--	--	--	50		3.12	J
MW-18 (48-50)	08/11/14	0.0248		0.343		0.196		2.23	2.7938	--	--	--	45	H	4.21	
MW-19 (48-50)	08/07/14	0.0253		0.119		0.082		0.786	1.0123	--	--	--	BDL	H	3.6	J
MW-20 (48-50)	08/10/14	0.0266		1.00		0.306		4.34	5.6726	--	--	--	**150**	H	2.35	J
MW-21 (47-48)	04/17/20	BRL		0.034		0.054		0.68	0.768	11	22	BRL	33		BRL	
MW-22 (47-48)	04/16/20	BRL		0.42		0.36		3.7	4.48	140	44	BRL	**184**		BRL	
MW-23 (21.5-22.5)	04/17/20	BRL		BRL		BRL		BRL	BRL	BRL	BRL	BRL	BRL		BRL	
MW-24 (45)	10/19/22	BRL		BRL		BRL		0.013	0.013	BRL	BRL	BRL	BRL		BRL	
MW-25 (30)	10/18/22	BRL		BRL		BRL		BRL	BRL	BRL	BRL	BRL	BRL		BRL	
SB-1 (36.1-38)	06/30/15	BRL		BRL		2.4		11	13.4	730	160	BRL	**890**		BRL	
SB-1 (38-40)	06/30/15	7.8		110		46		330	**493.8**	5,800	320	BRL	**6120**		BRL	
SB-1 (42.5-45)	06/30/15	7.5		73		24		170	**274.5**	3,500	160	BRL	**3660**		BRL	
SB-1 (46.9-48)	06/30/15	1.8		26		13		86	**126.8**	1,800	250	BRL	**2050**		BRL	
SVE-1 (30.5-31.5)	06/20/18	0.051		BRL		2.4		13	15.451	520	170	BRL	**690**		BRL	
SVE-1 (42.3-43.3)	06/20/18	2.0		34		14		110	**160.0**	2,000	77	BRL	**2077**		BRL	
TW-1 (47-48)	06/20/18	BRL		BRL		BRL		BRL	BRL	13	9.3	BRL	22		BRL	
TW-2 (43.5-44.5)	06/21/18	BRL		BRL		BRL		BRL	BRL	BRL	BRL	BRL	BRL		BRL	
TW-2 (47-48)	06/21/18	0.14		0.90		0.46		2.9	4.40	63	12	BRL	75		BRL	

Notes:

J	Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time.
mg/kg	Milligrams per kilogram
BDL	Below Detection Limit
BRL	Below Reporting Limit
NE	New Mexico Oil Conservation Division (NMOCD) Standard Not Established
BTEX	Benzene, toluene, ethylbenzene, xylenes
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics
Total BTEX	Sum of the detectable concentrations of individual BTEX constituents
Total TPH	Total Petroleum Hydrocarbon, concentration as reported by the analytical laboratory or calculated by adding GRO, DRO, and MRO and rounded to the nearest mg/kg.
NMOCD Criteria	New Mexico Oil Conservation Division closure criteria for groundwater 50 feet or less below the bottom of pit to groundwater less than 10,000 mg/L TDS Results bolded and highlighted yellow exceed their respective NMOCD Standards
Shaded	Soil sample interval appears to be submerged based on available static water level gauging data.

FIGURES

FIGURE 1: SITE LOCATION

FIGURE 2: SITE PLAN

FIGURE 3: GROUNDWATER ANALYTICAL RESULTS - MAY 20, 2022

FIGURE 4: GROUNDWATER ELEVATION MAP - MAY 20, 2022

FIGURE 5: GROUNDWATER ANALYTICAL RESULTS - NOVEMBER 5, 2022

FIGURE 6: GROUNDWATER ELEVATION MAP - NOVEMBER 5, 2022

FIGURE 7: SOIL ANALYTICAL RESULTS

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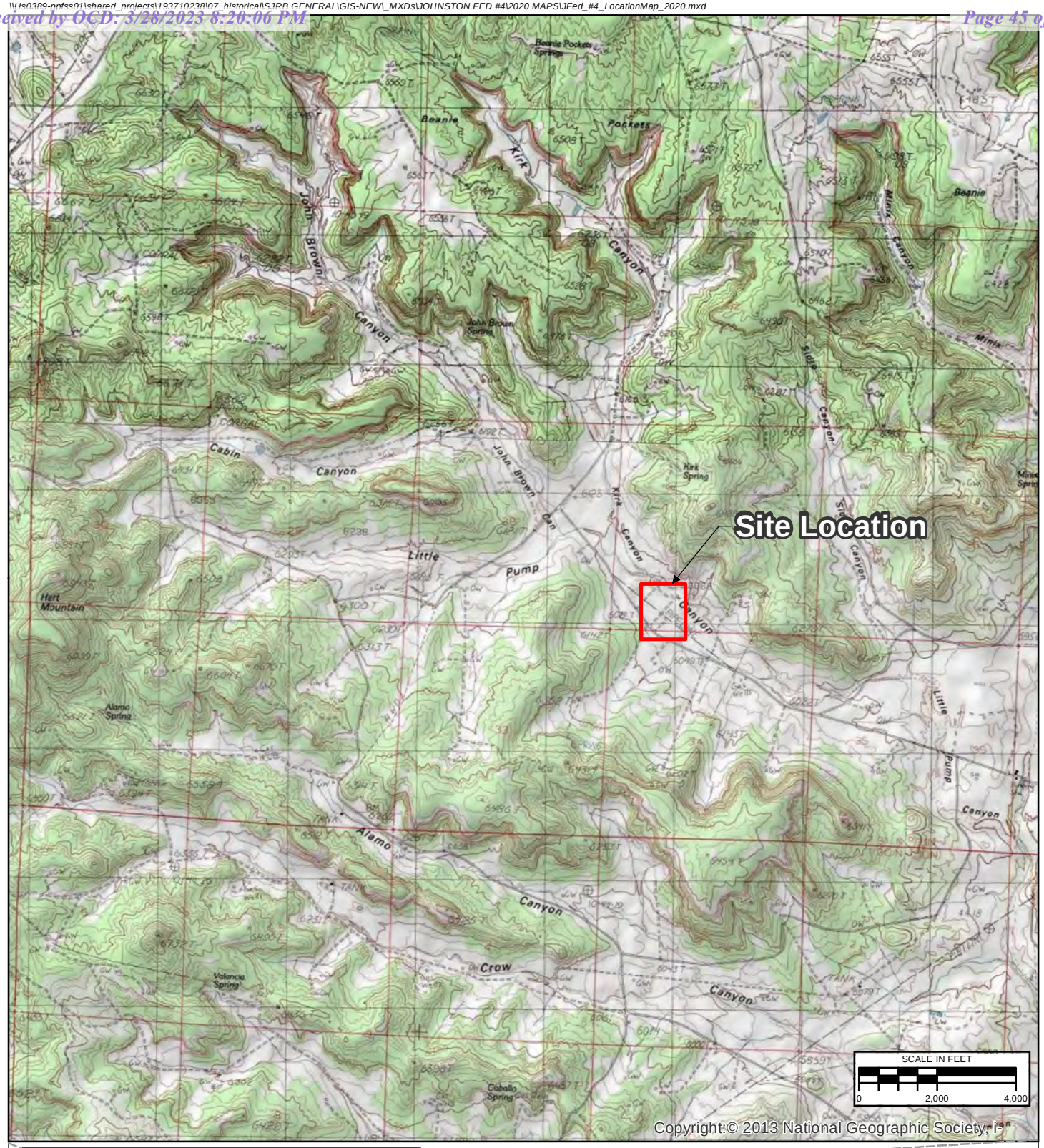

N

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

TITLE
SITE LOCATION

Stantec

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

FIGURE
1

Released to Imaging: 5/17/2023 1:06:34 PM

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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

ENTERPRISE

SOLAR PANEL

SYSTEM EXPANSION
LATERAL TERMINATIONS

SOLAR LNAPL
SKIMMER (CONEX)

MW-4, MW-19, MW-23, MW-6, MW-18, MW-1, MW-3, MW-7, MW-9, MW-20, MW-2, MW-17, MW-8, MW-10, MW-16, MW-22, MW-25, MW-11, MW-13, MW-15, MW-12, MW-14, MW-21, MW-24

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

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

TW-1, TW-2

TMW-5

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

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

N

SCALE IN FEET
0 25 50

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-03-19	SAH	SAH	SRV

TITLE:

SITE PLAN

PROJECT:

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

Stantec

Figure No.: 2

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BLM PROPERTY

SEXTON PROPERTY

AREA OF FORMER PIT OR EXCAVATION

FORMER EPC PIT EXCAVATED TO 10 FEET

SMA BENCHMARK
ELEV. 6070.51
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO WEST

HILCORP WATER
HILCORP GAS

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

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

MW-4
NS

MW-6
B: 1.7
T: <1.0
E: <1.0
X: <10

MW-18
B: 7.9
T: <1.0
E: 1.6
X: 11

DUP-1
B: 2.9
T: <1.0
E: <1.0
X: <1.0

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

MW-1
NS

MW-9
B: 56
T: 1.7
E: 1.1
X: <10

MW-7
NS

MW-3
NS

MW-2
NS

MW-20
B: 120
T: 2.0
E: 2.6
X: 23

MW-8
NS

MW-16
B: 2.4
T: <1.0
E: <1.0
X: <10

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

MW-10
NS

MW-22
NS

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

MW-11
NS

MW-15
B: 1.9
T: <1.0
E: <1.0
X: <10

MW-21
NS

MW-12
NS

MW-14
NS

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

TW-1 TW-2

TMW-5

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
	2023-03-19	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 20, 2022

PROJECT:

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

Stantec

Figure No.: 3

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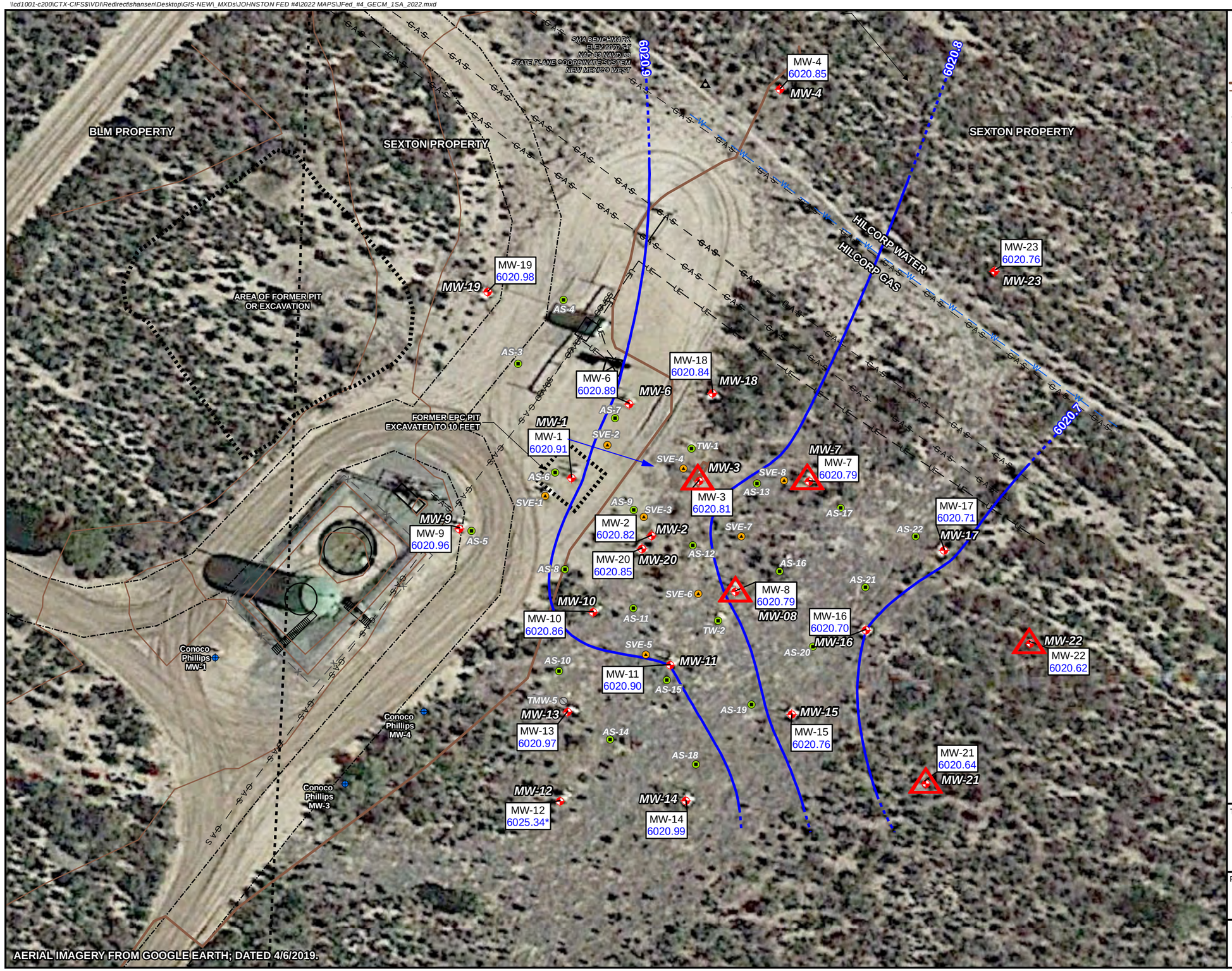


LEGEND:

- 6070 — APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS LINE
- WATER LINE
- FENCE
- 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:

6021.08 — GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6020.8 — 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	2023-03-19	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
MAY 20, 2022

PROJECT:

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

Stantec

Figure No.: 4

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2022 MAPS\JFed_#4_GARM_2SA_2022.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
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-19
B: 8.6
T: <1.0
E: <1.0
X: <10

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

DUP-1
B: <1.0
T: <1.0
E: <1.0
X: <10

MW-18
B: 3.5
T: <1.0
E: <1.0
X: <10

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

MW-1
NS

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

MW-3
NS

MW-7
NS

MW-9
B: 39
T: <1.0
E: <1.0
X: <10

MW-20
B: 43
T: <1.0
E: 2.3
X: 11

MW-8
NS

MW-16
B: 1.6
T: <1.0
E: <1.0
X: <10

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

MW-10
B: 36
T: <1.0
E: <1.0
X: <10

MW-22
NS

MW-25
B: <1.0
T: <1.0
E: 8.7
X: 31

MW-11
B: 39
T: 240
E: 280
X: 330

MW-13
B: 2.1
T: <1.0
E: <1.0
X: <10

MW-15
B: 21
T: <1.0
E: <1.0
X: <10

MW-21
NS

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

MW-14
B: 4.4
T: <1.0
E: <1.0
X: <10

MW-24
B: 43
T: 2.4
E: 20
X: 47

Conoco Phillips MW-1

Conoco Phillips MW-4

Conoco Phillips MW-3

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

LEGEND:

- APPROX. GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- GAS LINE
- WATER LINE
- FENCE
- 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
	2023-03-19	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS
NOVEMBER 5, 2022

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\2022 MAPS\JFed_#4_GECM_2SA_2022.mxd

BLM PROPERTY

SEXTON PROPERTY

SEXTON PROPERTY

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

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 6021.09

MW-19 6021.25

MW-6 6021.15

MW-18 6021.09

MW-1 6021.19

MW-7 6021.04

MW-9 6021.21

MW-3 6021.07

MW-2 6021.08

MW-20 6021.12

MW-8 6021.02

MW-10 6021.15

MW-11 6021.15

MW-13 6021.21

MW-12 6025.40*

MW-14 6021.22

MW-15 6021.01

MW-23 6021.00

MW-17 6020.96

MW-16 6020.98

MW-22 6020.87

MW-21 6020.82

MW-24 6020.00

MW-25 6018.68

6021.0

6020.0

6019.0

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

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:

6021.04 GROUNDWATER ELEVATION CORRECTED FOR LNAPL THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).

6020.5 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	2023-03-19	SAH	SAH	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 5, 2022

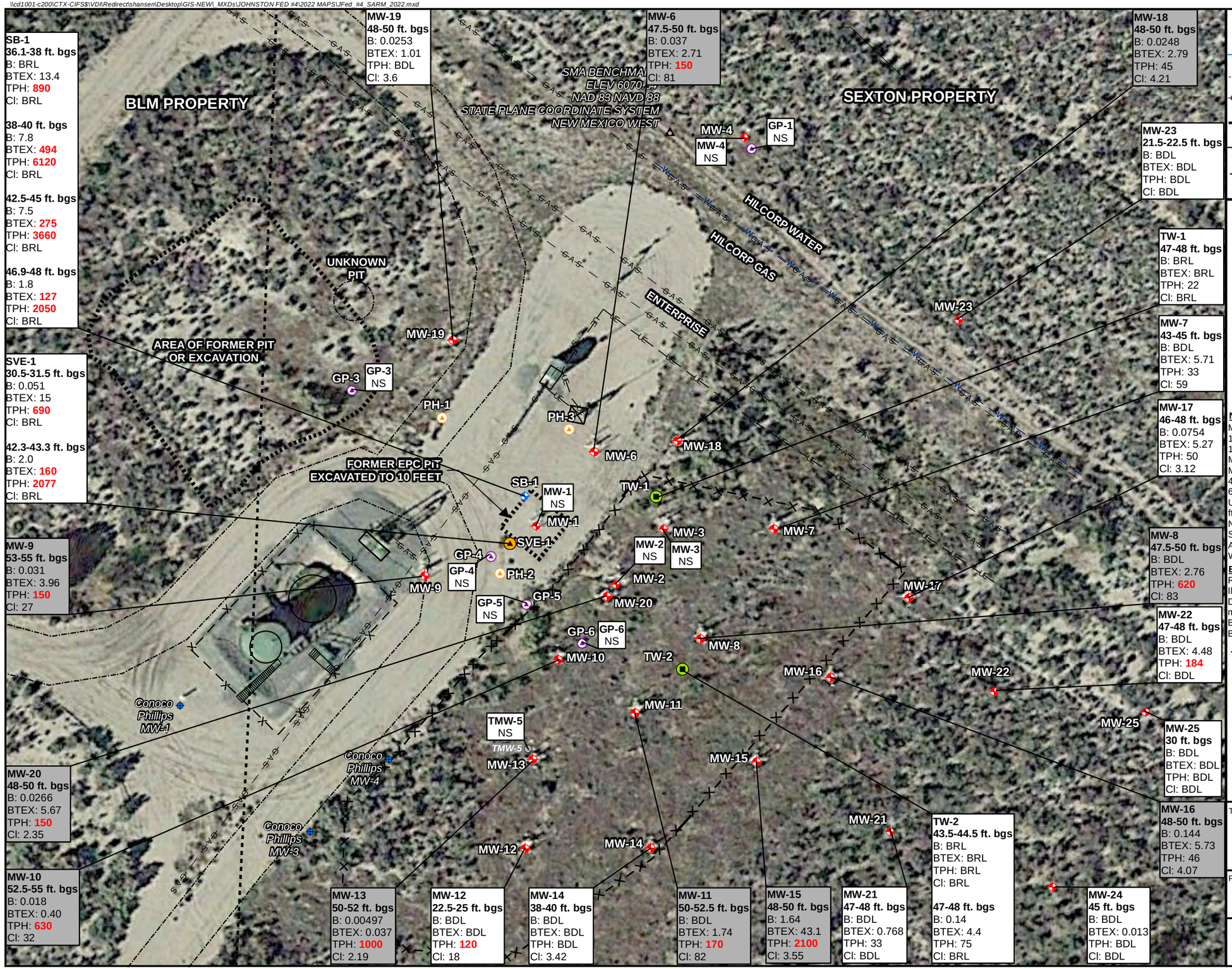
PROJECT:

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

Stantec

Figure No.: 6

\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\JOHNSTON FED #4\2022 MAPS\JFed_#4_SARM_2022.mxd



APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – BORING LOGS AND WELL DIAGRAMS

APPENDIX C – WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX D – SOIL DISPOSAL DOCUMENTATION

APPENDIX E – DAILY FIELD REPORTS

APPENDIX F – PHOTOGRAPHIC LOG

APPENDIX G – GROUNDWATER SAMPLING ANALYTICAL REPORTS

APPENDIX H – SOIL SAMPLING ANALYTICAL REPORT

APPENDIX A

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

Hi Cory -

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

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

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11313 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

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

Hi Nelson -

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

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

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
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From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming product recovery activities
Date: Monday, July 18, 2022 3:30:01 PM

Hi Nelson -

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

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

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

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
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From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: Johnston Federal #4 (nAUTOfAB000305) - Notice of upcoming LNAPL recovery activities
Date: Friday, August 19, 2022 7:45:58 PM

Hi Nelson –

On behalf of El Paso CGP Company (EPCGP), this correspondence is to provide notice of LNAPL recovery activities, planned to begin on August 24, 2022, with the installation of a LNAPL skimmer system in monitoring well MW-22. A work plan detailing these activities has been submitted in e-permitting.

Please contact Joe Wiley, with EPCGP, at 713-420-3475, 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
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From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: Johnston Federal #4 (Incident Number nAUTOfAB000305) - Notice of upcoming field activities
Date: Wednesday, September 28, 2022 3:30:08 PM

Hi Nelson –

This correspondence is to provide notice to the NMOCD of planned monitoring well installation activities at the above-referenced El Paso site. The well installation activities are to begin on October 10, 2022. A work plan for these activities was submitted in the e-permitting portal.

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

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
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From: Varsa, Steve
To: Nelson.Velez@state.nm.us
Cc: Bratcher, Mike, EMNRD; Wiley, Joe
Subject: El Paso CGP Company - Notice of upcoming groundwater sampling activities
Date: Wednesday, October 26, 2022 3:13:50 PM

Hi Nelson -

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

Site Name	Incident Number	Sample Date
Canada Mesa #2	nAUTOfAB000065	11/6/2022
Fields A#7A	nAUTOfAB000176	10/31/2022
Fogelson 4-1	nAUTOfAB000192	10/30/2022
Gallegos Canyon Unit #124E	nAUTOfAB000205	11/3/2022
GCU Com A #142E	nAUTOfAB000219	11/2/2022
James F. Bell #1E	nAUTOfAB000291	11/4/2022
Johnston Fed #4	nAUTOfAB000305	11/5/2022
Johnston Fed #6A	nAUTOfAB000309	11/5/2022
K27 LDO72	nAUTOfAB000316	11/6/2022
Knight #1	nAUTOfAB000324	11/4/2022
Lateral L 40 Line Drip	nAUTOfAB000335	10/30/2022
Sandoval GC A #1A	nAUTOfAB000635	11/5/2022
Standard Oil Com #1	nAUTOfAB000666	11/6/2022
State Gas Com N #1	nAUTOfAB000668	11/1/2022

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

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

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
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APPENDIX B

Drilling Log

Stantec

Monitoring Well **MW-24**

Page: 1 of 2

Project *Johnston Federal #4* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Surface Elev. *6067.86 ft* North *2133250.328* East *2741135.518*

Top of Casing *6070.20 ft* Water Level Initial ▽ *6013.9* 10/24/22 00:00 Static ▼ *6019.6* 11/05/22 00:00

Hole Depth *55.2 ft* Screen: Diameter *2 in* Length *20.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *37.5 ft* Type *PVC*

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

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Scott Stanley*

Start Date *10/19/2022* Completion Date *10/20/2022* Checked By *S. Varsa*

COMMENTS
A 5-foot sampler was used during advancement of this borehole.

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

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						0-8' Hydroexcavated.	
5	NM	0%					
	1.4	100%			SM	Sand, silty, brown (7.5 YR 5/3), dry, very loose, roots.	
10	0.3					No recovery.	
	NR	0%					
	NR						
	NR						
	0.0	100%			SW SM	Sand, silty, brown (7.5 YR 5/3), dry, loose, well-graded.	
15	0.4					No recovery.	
	NR	0%					
	NR						
	NR						
	0.1	100%			SW SM	Sand with little silt, brown to light brown (7.5 YR 5/3 to 6/4), dry, loose, well-graded.	
20	0.1					No recovery.	
	NR	0%					
	NR						
	NR						
	0.1	100%			SW SM	Sand with silt, brown to light brown (7.5 YR 5/3 to 6/4), dry, loose, well-graded.	
25	0.3				ML	Silt with little clay, pale brown (10 YR 6/3), dry, hard, nonplastic.	
	NR	0%				No recovery.	
	NR						
	NR						
	0.2	100%			SW SM	Sand with silt, brown to light brown (7.5 YR 5/3 to 6/4), dry, loose, well-graded.	
30					ML	Silt with trace clay, brown (10 YR 4/3), dry, hard, nonplastic.	

Continued Next Page

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

Drilling Log

Stantec

Monitoring Well **MW-24**

Page: 2 of 2

Project *She* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30	0.1				SM	Sand, silty with little clay, brown (7.5 YR 5/3), dry, loose.	
	0.6						
	0.8				ML	Silt with little clay, brown (10 YR 4/3), dry, hard, nonplastic.	
	0.6	100%					
	0.2						
35	0.2					No recovery.	
	NR	0%					
	NR				SM	Sand, silty, brown (7.5 YR 5/3 to 10 YR 4/3), dry, medium dense to dense.	
	0.2						
	0.3	100%					
40	0.0					No recovery.	
	0.2	0%			SW SM	Sand, silty, brown (7.5 YR 5/4 to 4/4), dry, loose to medium dense, well-graded.	
	0.0						
	0.0	100%			CL ML	Clay, silty, very dark gray to dark gray (10 YR 3/1 to 4/1), dry to moist, hard.	
	1.5						
45	11	MW-24 45'				No recovery.	
	NR	0%					
	4.8				SP SM	Sand, silty, very dark grayish brown (10 YR 3/2), moist, medium dense, poorly-graded.	
	18.3				SP SM	Sand, silty, black to very dark gray (10 YR 2/1 to Gley 1 3/N), moist to wet, medium dense, petroleum odor, staining, poorly-graded.	
	3,033	100%			CL ML	Clay, silty, greenish gray (Gley 1 5/1 5GY), moist, firm, nonplastic.	
50	64.9				ML	Silt with trace clay, greenish gray (Gley 1 5/1 5GY), moist, hard, nonplastic.	
	2.6						
	25.9				ML	Silt with trace clay, light brown (7.5 YR 6/3), dry to moist, hard, nonplastic.	
	1.8	100%					
	1.4				ML	Weathered shale, dark greenish gray (Gley 1 4/1 10Y), dry, semi-lithified. Silt (weathered siltstone), brown (7.5 YR 5/3), dry, very hard, nonplastic, micaceous.	
55	0.5	100%			SW SM	Sand (weathered sandstone), pinkish gray (7.5 YR 7/2), dry, very dense, moderate to stong cementation.	
					SP SC	Sand (weathered sandstone), clayey, brownish yellow sand (10 YR 6/6) and brown clay (10 YR 4/3), moist, dense to very dense, moderate to strong cementation, poorly-graded, auger refusal at 55.2'.	
						End of boring = 55.2'. Well set at 55.2'.	
60							
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 54 (MW-24) Johnston Federal #4	WELL TAG ID NO.: MW-24	OSE FILE NO(S).: SJ- 4067
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS): DEGREES MINUTES SECONDS
LATITUDE: 2133250.33 Northing N
LONGITUDE: 2741135.52 Easting W
* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW 1/4 of the SW 1/4, Section 27, T31N, R9W

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD-1664	NAME OF LICENSED DRILLER: Brendan Remillard		NAME OF WELL DRILLING COMPANY: Cascade Drilling
DRILLING STARTED: 10-19-22	DRILLING ENDED: 10-19-22	DEPTH OF COMPLETED WELL (FT): 55.2	BORE HOLE DEPTH (FT): 55.2
DEPTH WATER FIRST ENCOUNTERED (FT): 47			
COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT): 47.9
DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:			
DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem auger			

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	35.2	8	PVC Riser	Flush Thread	2inch	Sch 40	N/A
35.2	55.2	8	PVC Screen	Flush Thread	2inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	8	Concrete Completion		Hand Pour
2	28.8	8	Cement / Grout Mix		Tremmie
28.8	32.4	8	Bentonite chips		Hand Pour
32.4	55.2	8	Sand Filter Pack		Hand Pour

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

FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	45	45	Silt Sands	Y (N)	
45	55.2	10.2	Cemented Sand Stone	(Y) N	0.75
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.75

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION:
5" Stick-up well vault and 3 protective bollards all painted yellow, Locking cap

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

6. SIGNATURE

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

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

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

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Monitoring Well **MW-25**

Page: 1 of 2

Project *Johnston Federal #4* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Surface Elev. *6067.24 ft* North *2133305.215* East *2741164.662*

Top of Casing *6069.28 ft* Water Level Initial ▽ *6021.89* 10/19/22 00:00 Static ▼ *6018.65* 10/24/22 00:00

Hole Depth *60.2 ft* Screen: Diameter *2 in* Length *20.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *2 in* Length *42.2 ft* Type *PVC*

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

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Scott Stanley*

Start Date *10/18/2022* Completion Date *10/19/2022* Checked By *S. Varsa*

COMMENTS
A 5-foot sampler was used during advancement of this borehole.

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

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) — Geologic Descriptions are Based on the USCS.	Well Completion
0	NM	0%	3 ALIGER			0-8' Hydroexcavated. (from 5-8', Sand, silty, brown (7.5 YR 5/4), dry, very loose, roots)	
5	NM	100%					
	NM	100%			SM	Sand, silty, brown (7.5 YR 5/4), dry, loose.	
10	0.2						
	0.2					No recovery.	
	NR	0%					
	NR						
	NR	100%			SM	Sand, silty, brown (7.5 YR 5/3), dry, loose.	
	0.2						
15	0.2					No recovery.	
	NR	0%					
	NR						
	NR	100%			SW SM	Sand with silt, brown to light brown (7.5 YR 6/4 to 5/4), dry, loose.	
	0.1						
20	0.0					No recovery.	
	NR	0%					
	NR						
	NR	100%			SW SM	Sand with silt, brown/light brown to brown/pale brown (7.5 YR 6/4 to 5/4 to 10 YR 6/3 to 5/3), dry, loose.	
	0.0						
25	0.0					No recovery.	
	NR	0%					
	NR						
	NR	100% MW-25 30'			SW SM	Sand with little silt, brown to yellowish brown (7.5 YR 5/4 to 10 YR 5/4), dry, loose.	
	0.0						
30	0.6					No recovery.	
	NR	0%					
	0.0				ML	Silt with little clay, yellowish brown (10 YR 5/4), dry, very soft, nonplastic.	
	0.0	100%					
	0.1				ML	Silt, with clay, brown (10 YR 5/3), dry, soft, non- to very slightly plastic.	
35							

Continued Next Page

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

Drilling Log

Stantec

Monitoring Well **MW-25**

Page: 2 of 2

Project *She* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
35	0.1					No recovery.	
	NR	0%			CL ML	Clay, silty, brown (10 YR 4/3), dry, soft to firm, low plasticity.	
	0.1						
	0.1	100%			CL SC	Sand, clayey, brown (7.5 YR 5/3 to 5/4), dry, loose, well-graded.	
	0.1						
40	0.0				ML	Silt, clayey, brown (7.5 YR 5/4 to 4/4), dry, soft, nonplastic.	
	0.0						
	0.0				CL ML	Clay, silty, brown (7.5 YR 5/4), dry to moist, firm, non-to low plasticity.	
	0.0	100%					
	0.0						
45 ▽	0.0					No recovery.	
	NR	0%			CL ML	Clay, silty, brown (7.5 YR 5/4), dry to moist, firm, non- to low plasticity.	
	0.0						
▼	0.0	100%			SP SM	Sand with silt, white (10 YR 8/1) to gray (Gley 1 5/N), moist, loose to medium dense, slight odor, stained black to gray.	
	11.6						
50	217				CL ML	Clay, silty, brown (7.5 YR 4/3), moist, soft, nonplastic.	
	NR	0%				No recovery.	
	65				CL ML	Clay, silty, gray (Gley 1 5/N), moist, firm, non- to low plasticity.	
	0.3	100%			SP SM	Sand with silt, white (10 YR 8/1) to gray (Gley 1 5/N), wet, loose to medium dense, slight odor, stained black.	
	3.4				SP SM	Sand with silt, dark gray to gray (10 YR 4/1 to 5Y 5/1), wet, loose to medium dense.	
55	0.3				ML	Silt, clayey, strong brown (7.5 YR 5/6), wet, soft, nonplastic.	
	16.9				SP SM	Sand with silt, yellowish brown and dark gray to gray (10 YR 5/6 and 10 YR 4/1 to 5Y 5/1), wet, medium dense, odor-petroleum, stained dark gray.	
	0.5				SP SM	Sand with little silt, yellowish brown (10 YR 5/6), wet, medium dense, odor-petroleum, no staining.	
	39.5	100%			SP SM	Sand with little silt, greenish gray (Gley 1 5/1 5GY), wet, dense, odor-petroleum, stained greenish gray.	
	5.2				SP SM	Sand (weathered sandstone), yellowish brown (10 YR 5/4), wet, very dense, cemented, odor-petroleum, no staining.	
60	1,5				SP SM	Sand (weathered sandstone), yellowish brown (10 YR 5/4), wet, very dense, cemented, no odor, no staining, auger refusal at 60.2'.	
	0.3	100%					
65						End of boring = 60.2'. Well set at 60.2'.	
70							
75							
80							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 55 (MW-25) Johnston Federal #4	WELL TAG ID NO.: MW-25	OSE FILE NO(S).: SJ- 4067
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS) — DEGREES / MINUTES / SECONDS

- LATITUDE: 2133400.95 Northing N
- LONGITUDE: 274159.18 Easting W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW 1/4 of the SW 1/4, Section 27, T31N, R9W

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD-1664	NAME OF LICENSED DRILLER: Brendon Remillard		NAME OF WELL DRILLING COMPANY: Cascade Drilling
DRILLING STARTED: 10-18-22	DRILLING ENDED: 10-18-22	DEPTH OF COMPLETED WELL (FT): 60.2	BORE HOLE DEPTH (FT): 60.2
DEPTH WATER FIRST ENCOUNTERED (FT): 49.5			
STATIC WATER LEVEL IN COMPLETED WELL (FT): 48.5			

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

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow stem auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40.2	8	PVC Riser	Flush Thread	2 inch	Sch 40	N/A
40.2	60.2	8	PVC Screen	Flush Thread	2 inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	8	Concrete Completion		Hand Pour
2	34.2	8	Cement / Grout Mix		Tremmie
34.2	37.2	8	Bentonite chips		Hand Pour
37.2	60.2	8	Sand Filter Pack		Hand Pour

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

FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	55	55	Silt / Sands	Y (N)	
55	60.2	5.2	Cemented Sand Stone	(Y) N	0.75
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.75

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION:
5" Stick-up well vault and 3 protective bollards all painted yellow, Locking cap

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

6. SIGNATURE

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

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

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

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Vapor Extraction Well **SVE-9**

Page: 1 of 2

Project *Johnston Federal #4* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Surface Elev. *6068.96 ft* North *2133258.296* East *2741070.277*

Top of Casing *6068.74 ft* Water Level Initial ▽ *6020.24* 10/20/22 00:00 Static ▼

Hole Depth *50.3 ft* Screen: Diameter *4 in* Length *10.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *8.25 in* Casing: Diameter *4 in* Length *40.1 ft* Type *PVC*

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

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Scott Stanley*

Start Date *10/20/2022* Completion Date *10/20/2022* Checked By *S. Varsa*

COMMENTS

A 5-foot sampler was used during advancement of this borehole. The measured depth to water at nearby monitoring well MW-24 was 56.3 (elevation 6013.9 feet ASL).

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

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						0-8' Hydroexcavated. Blind drilled to 35' - not sampled or logged. See lithology for nearby monitoring well MW-21.	
5							
10							
15							
20							
25							
30						*Continued Next Page*	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

Drilling Log

Stantec

Vapor Extraction Well **SVE-9**

Page: 2 of 2

Project *She* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30							
35	NR	0%				No recovery.	
	0.1				SW SM	Sand, silty, brown (7.5 YR 5/4), dry, medium dense, well-graded.	
	0.0	100%			CL ML	Clay, silty, dark yellowish brown (10 YR 3/6), dry, firm to hard, nonplastic.	
	0.0				SW SM	Sand, silty, light brown to brown (7.5 YR 6/4 to 5/4), dry, dense to very dense.	
40	0.1	0%				No recovery.	
	0.2				SW SM	Sand, silty, pink to light brown (7.5 YR 7/4 to 6/4), dry, dense to very dense, weak to moderate cementation.	
	0.1						
	0.4	100%			CL ML	Clay, silty, strong brown to dark brown grading to black (7.5 YR 4/6 to 3/4 grading to 10 YR 2/1 to Gley 1 2.5/N), dry to slightly moist, hard, nonplastic.	
	9.4						
45	251.3				CL ML	Clay, silty, with gravel, brown to yellowish brown (10 YR 5/3 to 5/4), dry, hard, nonplastic, strong hydrocarbon odor, staining.	
	NR					No recovery.	
	NR	0%					
	NR						
▽	11.3	100%			SW SM	Sand, silty, dark grayish brown (10 YR 4/2) with occasional grayish green (Gley 1 4/2 5G), dry to moist, medium dense, moderate petroleum odor, hydrocarbon staining.	
50	707.4						
						End of boring = 50.3'. Boring overdrilled to 51.2' with 12" augers. Set well at 50.3'.	
55							
60							
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 56 (SVE-09) Johnston Federal #4	WELL TAG ID NO.: SVE-09	OSE FILE NO(S).: SJ- 4067
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS) — DEGREES / MINUTES / SECONDS

LATITUDE: 2133258.30 Northing N

LONGITUDE: 2741070.28 Easting W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

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

SW 1/4 of the SW 1/4, Section 27, T31N, R9W

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD-1664	NAME OF LICENSED DRILLER: Brendon Remillard		NAME OF WELL DRILLING COMPANY: Cascade Drilling
DRILLING STARTED: 10-20-22	DRILLING ENDED: 10-20-22	DEPTH OF COMPLETED WELL (FT): 50.3	BORE HOLE DEPTH (FT): 51
DEPTH WATER FIRST ENCOUNTERED (FT): 49			

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

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A SVE installed above water level

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

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

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40.3	12	PVC Riser	Flush Thread	4inch	Sch 40	N/A
40.3	50.3	12	PVC Screen	Flush Thread	4inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	3	12	Plastic Vault		Hand Pour
3	34	12	Cement/Grout Mix		Tremmie Pipe
34	39	12	Bentonite chips		Hand pour
39	50.3	12	Sand Filter		Hand poour

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

FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

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

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION:

Flushmount well cover/vault, Locking cap

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

Brendon Remillard

6. SIGNATURE

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

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Vapor Extraction Well **SVE-10**

Page: 1 of 2

Project *Johnston Federal #4* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Surface Elev. *6068.41 ft* North *2133282.695* East *2741081.378*

Top of Casing *6068.09 ft* Water Level Initial ▽ *6019.59* 10/21/22 00:00 Static ▼

Hole Depth *50.2 ft* Screen: Diameter *4 in* Length *10.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *12.0 in* Casing: Diameter *4 in* Length *39.9 ft* Type *PVC*

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

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Scott Stanley*

Start Date *10/21/2022* Completion Date *10/21/2022* Checked By *S. Varsa*

COMMENTS
A 5-foot sampler was used during advancement of this borehole. The measured depth to water at nearby monitoring well MW-24 was 56.3 (elevation 6013.9 feet ASL).

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

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						0-8' Hydroexcavated. Blind drilled to 35' - not sampled or logged. See lithology for nearby monitoring well MW-21.	
5							
10							
15							
20							
25							
30						*Continued Next Page*	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

Drilling Log

Stantec

Vapor Extraction Well **SVE-10**

Page: 2 of 2

Project *She* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30							
35	NR	0%				No recovery.	
	0.0				CL	Clay, with trace silt, dark brown (7.5 YR 3/2), dry to moist, firm, soil forms "balls".	
	0.1						
	0.0	100%			SM	Sand, silty, strong brown (7.5 YR 5/6), dry, medium dense, poorly-graded.	
	0.1				CL ML	Clay, silty, yellowish red (5 YR 4/6), dry, firm, low plasticity.	
40	NR					No recovery.	
	1.6	0%			CL ML	Clay, silty, yellowish red (5 YR 4/6), dry, firm, low plasticity.	
	2.0						
	3.9	100%			SP SM	Sand, silty, dark gray (5Y 4/1), dry, medium dense, poorly-graded.	
	8.8						
45	NM				CL ML	Clay, silty, reddish brown (5 YR 4/4), dry to moist, firm, nonplastic.	
	NR	0%				No recovery.	
	NM						
	NM	100%					
▽	3.4				CL	Clay, silty, with sand, dark greenish gray (Gley 1 4/1 10Y), soft to firm, moist to wet, slight odor, hydrocarbon stained.	
50	45.8				SP SC	Sand, clayey, dark greenish gray to black (Gley 1 4/1 10Y to 2.5/N), wet, soft, moderate odor, hydrocarbon stained.	
						End of boring = 50'. Boring overdrilled to 50.5' with 12" augers. Set well at 50.2'.	
55							
60							
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 57 (SVE-10) Johnston Federal #4	WELL TAG ID NO.: SVE-10	OSE FILE NO(S.): SJ- 4067
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS): DEGREES MINUTES SECONDS

LATITUDE: 2133282.70 Northing N

LONGITUDE: 2741081.38 Easting W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW1/4 of the SW 1/4, Section 27, T31N, R9W

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD-1664	NAME OF LICENSED DRILLER: Brendon Remillard		NAME OF WELL DRILLING COMPANY: Cascade Drilling
DRILLING STARTED: 10-21-22	DRILLING ENDED: 10-21-22	DEPTH OF COMPLETED WELL (FT): 50.2	BORE HOLE DEPTH (FT): 50.5
DEPTH WATER FIRST ENCOUNTERED (FT): 49			

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

STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40.2	12	PVC Riser	Flush Thread	4 inch	Sch 40	N/A
40.2	50.2	12	PVC Screen	Flush Thread	4 inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	3	12	Plastic Vault		Hand Pour
3	33.8	12	Cement/Grout Mix		Tremie
33.8	38.8	12	Bentonite chips		Hand Pour
38.8	50.2	12	Sand Filter Pack		Hand Pour

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

FILE NO. POD NO. TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	50.5	50.5	Silt/Sands	Y (N)	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION:

Flushmount well cover/vault, Locking cap

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

Brendon Remillard

6. SIGNATURE

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

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

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

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Vapor Extraction Well **SVE-11**

Page: 1 of 2

Project *Johnston Federal #4* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Surface Elev. *6067.99 ft* North *2133307.458* East *2741093.063*

Top of Casing *6067.38 ft* Water Level Initial ▽ *6018.38* 10/22/22 00:00 Static ▼

Hole Depth *50.2 ft* Screen: Diameter *4 in* Length *10.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *12.0 in* Casing: Diameter *4 in* Length *39.6 ft* Type *PVC*

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

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Scott Stanley*

Start Date *10/22/2022* Completion Date *10/22/2022* Checked By *S. Varsa*

COMMENTS
A 5-foot sampler was used during advancement of this borehole. The measured depth to water at nearby monitoring well MW-22 was 49.7 feet (elevation 6020.77 feet ASL).

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

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						0-8' Hydroexcavated. Blind drilled to 35' - not sampled or logged. See lithology for nearby monitoring well MW-22.	
5							
10							
15							
20							
25							
30						*Continued Next Page*	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

Drilling Log

Stantec

Vapor Extraction Well **SVE-11**

Page: 2 of 2

Project *She* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30							
35	NR					No recovery.	
	NR	0%					
	0.0				CL ML	Clay with little silt, dark brown (7.5 YR 3/2), dry, firm, soil forms "balls".	
	0.0						
	0.1	100%			ML	Silt with trace poorly-graded sand, brown (7.5 YR 5/3), dry, hard.	
40	0.0					No recovery.	
	NR	0%					
	34.5				CL ML	Clay with silt, very dark grayish brown (10 YR 3/2), dry, soft.	
	13.9	100%			CL ML	Clay with silt, black (Gley 1 2.5/N), dry, soft, slight odor, hydrocarbon odor.	
	47				CL ML	Clay with silt, dark greenish gray (Gley 1 4/1 10Y), dry, hard, slight odor, hydrocarbon staining.	
45	59.6					No recovery.	
	NR	0%					
	NR						
	11.5				CL ML	Clay with silt, gray (5Y 4/1), moist, soft, slight odor, hydrocarbon staining.	
	348	100%					
▽ 50	298.7				SC CL	Sand, clayey, very dark gray (5Y 3/1), wet, medium dense to dense, moderate odor, hydrocarbon stained, poorly-graded.	
						End of boring = 50'. Boring overdrilled to 50.5' with 12" augers. Set well at 50.2'.	
55							
60							
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.) POD 58 (SVE-11) Johnston Federal #4	WELL TAG ID NO. SVE-11	OSE FILE NO(S). SJ- 4067
WELL OWNER NAME(S) El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL) 713-420-3475
WELL OWNER MAILING ADDRESS 1001 Louisiana Street Room 1445B		CITY Houston / STATE TX / ZIP 77002

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	2133307.46 Northing			N
LONGITUDE	2741093.06 Easting			W

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

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE
SW 1/4 of the SW 1/4, Section 27, T31N, R9W

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY
WD-1664	Brendon Remillard			Cascade Drilling
DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10-22-22	10-22-22	50.2	50.5	49.5

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

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

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

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40.2	12	PVC Riser	Flush Thread	4inch	Sch 40	N/A
40.2	50.2	12	PVC Screen	Flush Thread	4inch	Sch 40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	3	12	Plaster Vault		Hand
3	33.8	12	Cement/Grout mix		Tremie
33.8	38.8	12	Bentonite chips		Hand pour
38.8	50.2	12	Sand Filter Pack		Hand Pour

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

FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	50.5	50.5	Silt/Sands	Y (N)	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION:
Flushmount well cover/vault, Locking cap

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

6. SIGNATURE

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

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

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

FILE NO.	POD NO.	TRN NO.

Drilling Log

Stantec

Vapor Extraction Well **SVE-12**

Page: 1 of 2

Project *Johnston Federal #4* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Surface Elev. *6067.98 ft* North *2133323.495* East *2741121.429*

Top of Casing *6067.92 ft* Water Level Initial ▽ *6019.42* 10/22/22 00:00 Static ▼

Hole Depth *50.0 ft* Screen: Diameter *4 in* Length *10.0 ft* Type/Size *PVC/0.01 in*

Hole Diameter *12.0 in* Casing: Diameter *4 in* Length *39.9 ft* Type *PVC*

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

Driller *Brendon Remillard* Driller Reg. # *WD-1664* Log By *Scott Stanley*

Start Date *10/22/2022* Completion Date *10/24/2022* Checked By *S. Varsa*

COMMENTS
A 5-foot sampler was used during advancement of this borehole. The measured depth to water at nearby monitoring well MW-22 was 49.7 feet (elevation 6020.77 feet ASL).

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

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0						0-8' Hydroexcavated. Blind drilled to 35' - not sampled or logged. See lithology for nearby monitoring well MW-22.	
5							
10							
15							
20							
25							
30						*Continued Next Page*	

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

Drilling Log

Stantec

Vapor Extraction Well **SVE-12**

Page: 2 of 2

Project *She* Owner *El Paso CGP Company*

Location *San Juan County, New Mexico* Project Number *193709202*

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
						Continued	
30							
35	0.1				ML	Silt, clayey, reddish yellow (7.5 YR 6/6), dry, soft, soil from 35-35.2' forms "balls".	
	0.0				CL ML	Clay, silty, dark yellowish brown (10 YR 4/6), dry to moist, firm, non- to low plasticity.	
	0.0	100%					
	0.1				ML	Silt with trace clay, reddish yellow (7.5 YR 6/6), dry, soft to firm.	
40	0.0						
	1.7				ML	Silt with trace clay, dark grayish brown (10 YR 4/2), dry, soft, slight odor.	
	2.7						
	5.9	100%			ML	Silt, clayey, brown (10 YR 4/3), dry, firm to hard, moderate odor.	
	7.9				SM	Sand, silty, olive gray (5Y 4/2), moist, moderate odor, petroleum staining.	
45	235.1						
	NR	0%				No recovery.	
	NR						
	47.4				SM	Sand, silty, dark greenish gray (Gley 1 4/1 10Y), moist to wet, moderate odor, petroleum staining.	
	189.7	100%					
50	4.4						
						End of boring = 50'. Boring overdrilled to 50.5' with 12" augers. Set well at 50'.	
55							
60							
65							
70							

Drilling Log JOHNSTON FED #4.GPJ MWH IA.GDT 12/14/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 59 (SVE-12) Johnston Federal #4	WELL TAG ID NO.: SVE-12	OSE FILE NO(S).: SJ- 4067
WELL OWNER NAME(S): El Paso CGP Company, LLC (Contact: Joseph Wiley)		PHONE (OPTIONAL): 713-420-3475
WELL OWNER MAILING ADDRESS: 1001 Louisiana Street Room 1445B		CITY: Houston STATE: TX ZIP: 77002

WELL LOCATION (FROM GPS): DEGREES / MINUTES / SECONDS

- LATITUDE: 2133323.50 Northing N
- LONGITUDE: 2741121.43 Easting W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW 1/4 of the SW 1/4, Section 27, T31N, R9W

2. DRILLING & CASING INFORMATION

LICENSE NO.: WD1664	NAME OF LICENSED DRILLER: Brenden Remillard		NAME OF WELL DRILLING COMPANY: Cascade Drilling
DRILLING STARTED: 10-24-22	DRILLING ENDED: 10-24-22	DEPTH OF COMPLETED WELL (FT): 50	BORE HOLE DEPTH (FT): 50.5
DEPTH WATER FIRST ENCOUNTERED (FT): 49			

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

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow stem auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40	12	PVC Riser	Flush Thread	4inch	Sch 40	N/A
40	50	12	PVC Screen	Flush Thread	4inch	Sch40	0.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	3	12	Plastic Vault		Hand
3	33	12	Cement/Grout Mix		Tremmie
33	38	12	Bentonite chips		Hand Pour
38	50	12	Sand Filter Pack		Hand Pour

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

FILE NO. | POD NO. | TRN NO.

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	50.5	50.5	Silt/Sands	Y (N)	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION:

Flushmount well cover/vault, Locking cap

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

Brendon Remillard

6. SIGNATURE

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

Brendon Remillard — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

11-30-22 — DATE

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

FILE NO.	POD NO.	TRN NO.

APPENDIX C

824194

30 Years of Environmental Health and Safety Excellence

BASIN DISPOSAL

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

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

DATE 3-23-22
DEL. TKT#.
GENERATOR: Elpaso CGP
BILL TO: Elpaso CGP
HAULING CO. Stan Tech
DRIVER: Sean C.
(Print Full Name)
ORDERED BY: Joe W.
CODES:

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

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Johnston Fed #4	1	70			70	22 MAR 23 4:56PM
2		Johnston Fed #64						
3		Lat L 30						
4								
5								

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

☒ Approved ☐ Denied ATTENDANT SIGNATURE _____

SAN JUAN PRINTING 2020 1973-1

Page 87 of 205

envirotech

Bill of Lading

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

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

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

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

LANDFARM EMPLOYEE Cory Robinson BLM

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

NOTES

SCANNED

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

Generator Onsite Contact _____ Phone _____

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

SAN JUAN PRINTING 2021 407-3

Received by OCD: 3/28/2023 8:20:06 PM
Released to Imaging: 5/17/2023 1:06:34 PM

envirotech

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

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

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

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

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

GENERATOR

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

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

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

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

TRANSPORTER

Transporter 1 Acknowledgement of Receipt of Special Waste		
Printed/Typed Name: Colton Tohn	Signature:	Date: 8/3/22
Transporter 2 Acknowledgement of Receipt of Special Waste		
Printed/Typed Name:	Signature:	Date:

FACILITY

Discrepancy Indication Space:

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

Printed/Typed Name:	Signature:	Date:
Cary Robinson		08.03.22

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san juan reproduction 578-137

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LF 574417

envirotech

Bill of Lading

MANIFEST # 75862
GENERATOR El Paso
POINT OF ORIGIN Johnston Fed # 4
TRANSPORTER Riley
DATE 10-12-22 JOB # 14073-0068-0050

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	LF2	Hydrovac Cont Soil	P12		5			32098	1210	
-	LF2	Washout by Riley	P12		5				1210	
					10					

RESULTS		
-298	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Corey 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

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envirotech BOL# 75862

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10-12-22 TIME 1210 Attach test strip here

CUSTOMER El Paso

SITE Johnston Fed #4

DRIVER C. Gomez

SAMPLE Soil / Straight X With Dirt

CHLORIDE TEST 298 mg/Kg

ACCEPTED YES X NO

PAINT FILTER TEST Time started Time completed

PASS YES ✓ NO

SAMPLER/ANALYST

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised August 1, 2011

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: **Billing code for invoice:**

El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. Originating Site:
Johnston Federal #4

3. Location of Material (Street Address, City, State or ULSTR):
Unit N, Sec. 27, T31N, R09W

4. Source and Description of Waste:
Historic releases occurred on the above-referenced property. As part of environmental investigation activities, utility clearance via hydrovac methods will be conducted. Hydrovac spoils generated from these activities will be removed from the Site for disposal.

Estimated Volume 6 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

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

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

6. Transporter:
Riley Industrial, Inc.

OCD Permitted Surface Waste Management Facility

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

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

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

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

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

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envirotech

Bill of Lading

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

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

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

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

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

Generator Onsite Contact _____ Phone _____

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

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envirotech

BOL# 76385

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-7-22 TIME 8:45 Am

CUSTOMER Kinder Morgan

SITE Pit Sites

DRIVER A. Musso

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST -291 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 8:47 Time completed _____

PASS YES _____ NO _____

SAMPLER/ANALYST CR

Attach test strip here

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

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envirotech

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

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

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

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

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

Additional Descriptions for Special Waste Listed Above:

Special Handling Instructions:

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

GENERATOR

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

TRANSPORTER

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

FACILITY

Discrepancy Indication Space:

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

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised August 1, 2011

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

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

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

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

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

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

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

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

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

OCD Permitted Surface Waste Management Facility

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

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

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

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

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____

APPENDIX D

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LF 57447

envirotech

Bill of Lading

MANIFEST # 75862
GENERATOR El Paso
POINT OF ORIGIN Johnston Fed #4
TRANSPORTER Riley
DATE 10-12-22 JOB # 14073-0068-0050

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	LF2	Hydrovac Cont Soil	P12		5			32098	1210	
-	LF2	Washout by Riley	P12		5				1210	
					10					

RESULTS		
-298	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Corey 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

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envirotech BOL# 75862

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10·12·22 TIME 1210

Attach test strip here

CUSTOMER El Paso

SITE Johnston Fed #4

DRIVER C Courante

SAMPLE Soil / Straight X With Dirt ______

CHLORIDE TEST ~298 mg/Kg

ACCEPTED YES X NO ______

PAINT FILTER TEST Time started ______ Time completed ______

PASS YES ✓ NO ______

SAMPLER/ANALYST [signature]

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

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised August 1, 2011

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: **Billing code for invoice:**

El Paso CGP Company L.L.C., 1001 Louisiana Street, Room 1445B, Houston, TX 77002

2. Originating Site:
Johnston Federal #4

3. Location of Material (Street Address, City, State or ULSTR):
Unit N, Sec. 27, T31N, R09W

4. Source and Description of Waste:
Historic releases occurred on the above-referenced property. As part of environmental investigation activities, utility clearance via hydrovac methods will be conducted. Hydrovac spoils generated from these activities will be removed from the Site for disposal.

Estimated Volume 6 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Joseph Wiley, representative or authorized agent for El Paso CGP Company, LLC do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

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

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

6. Transporter:
Riley Industrial, Inc.

OCD Permitted Surface Waste Management Facility

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

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

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

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

PRINT NAME: _____ TITLE: _____ DATE: _____

SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent

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envirotech

Bill of Lading

MANIFEST # 76084
GENERATOR kinder morgan
POINT OF ORIGIN Johnson Federal # 4
TRANSPORTER Envirotech
DATE 10/26/22 JOB # 14073-0068

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5	Cont. Soil	M-34	14				660	1222	
2	" "	" "	M-34		1			686	1638	
				14	1					

SCANNED

RESULTS		
-291	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PTSU	PAINT FILTER TEST	1

LANDFARM EMPLOYEE DR

☐ 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

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BOL# 76984

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10/25/22 TIME 1222

Attach test strip here

CUSTOMER Kinder Morgan

SITE Johnson Federal #4

DRIVER Ruiloba Uc

SAMPLE (Soil) Straight ✓ With Dirt _____

CHLORIDE TEST ~241 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1222 Time completed 1232

PASS YES ✓ NO _____

SAMPLER/ANALYST [signature]

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

APPENDIX E

DAILY FIELD REPORT
Solar LNAPL Skimmer Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 8/26/22 Friday
WEATHER: cloudy, light precipitation in late PM, ~80s F
PROJECT No.: 193709000
Everyone Safely Off Site: Yes

ON-SITE PERSONNEL (name, company, project role)
Sean Clary, Stantec, project oversight
Scott Stanley, Stantec, project oversight
Jeremy Valdez, Sierra Oilfield Services, crane operator and oversight
Varick Nez, Sierra Oilfield Services, backoe operator
Jarek Nez, Sierra Oilfield Services, laborer
Jeffrey Clichee, Sierra Oilfield Services, laborer
LeeRiah Augustine, Sierra Oilfield Services, laborer
Jose Valdez, Sierra Oilfield Services, Welder
Sergio Cruz, Sierra Oilfield Services, Welder's assistant
William Crosby, Taft Electric, electric installer
Kevin Parrish, Taft Electric, electric installer

VISITORS (name, company)
Jason Valdez, Sierra Oilfield Services

CONSTRUCTION EQUIPMENT (type, model)
310SC Backhoe
National Crane NBT 45

TASKS PERFORMED
Daily Health and Safety Meetings
Clear Brush
Pull bollards and knock off concrete for storage
Complete crane inspection/lift paperwork and crane conex into position
Rivet screen for venting
Install celing fans (3) and plywood around stickup
Remount Geotech box that dislodged during travel
Mount 2 100W solar panels
Install solar sipper and alarm state indicator light
Install Ring cameras
Secure conex
Scott Stanley depart

PROJECT COMMENTS/NOTES (health and safety, operational issues/concerns, corrective actions, etc.)
In order to install the roof vents, one individual needed to physically get on top of the shipping container. Reviewed KM fall protection requirements onsite, called project manager to confirm strategy, and used an inspected fall protection harness while the worker was drilling 12 self tapping screws through the roof of the container.

NEXT DAY'S PLANNED ACTIVITIES
Sierra to paint shiping container Carlsbad Canyon Tan, using tarps while spraying/sandblasting
Stantec to perform startup and testout of sipper system

PREPARED BY: Sean Clary

REVIEWED BY: Steve Varsa

DAILY FIELD REPORT
Solar LNAPL Skimmer Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 8/27/22 Saturday
WEATHER: Sparsly cloudy, 80's F, clear
PROJECT No.: 193709000

Everyone Safely Off Site: Yes

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

Sean Clary, Stantec, project oversight
Ferland Benally, Sierra Oilfield Services, Painter
Leroy Jensen, Sierra Oilfield Services, Painter's assistant

VISITORS (name, company)

None

CONSTRUCTION EQUIPMENT (type, model)

PDS1855 air compressor
Clemco sand blaster
GMAX II paint sprayer

TASKS PERFORMED

Daily Health and Safety Meetings
Lay out plastic to catch sand blast material and paint chips/overspray
Cover solar panels with plastic sheeting
Sandblast conex
Paint conex
Bag sandblast material for removal from site and roll up tarps
Remove plastic sheeting
Adjust skimmer position and operation parameters and observe product removal
Secure conex

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

The plastic on the (2) 100W solar panels was shifted by the wind and a small amount of paint overspray appears to have landed on part of each panel, these were wiped down using a ladder.

NEXT DAY'S PLANNED ACTIVITIES

Check on skimmer system
Install contact sensors on 2 doors

PREPARED BY: Sean Clary

REVIEWED BY: Steve Varsa

DAILY FIELD REPORT
Solar LNAPL Skimmer Installation

El Paso CGP Company
1001 Louisiana
Houston, Texas 77002

Johnston Federal #4
Groundwater Pit Site

DATE: 8/28/22 Saturday
WEATHER: Sparsly cloudy, 80's F, clear
PROJECT No.: 193709281

Everyone Safely Off Site: Yes

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

Sean Clary, Stantec, project oversight

VISITORS (name, company)

None.

CONSTRUCTION EQUIPMENT (type, model)

None.

TASKS PERFORMED

Daily Health and Safety Meetings
Check DTP/DTW in MW-21 and adjust skimmer parameters.
Installed contact sensors on main door and control inset door. Tested contact sensors.
Secure conex

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

None.

NEXT DAY'S PLANNED ACTIVITIES

None.

PREPARED BY: Sean Clary

REVIEWED BY: Steve Varsa

APPENDIX F

Stantec

Photographic Log

Client:	**El Paso CGP**	**Project:**	**Solar LNAPL Skimmer Install**
Site Name:	**Johnston Federal 4**	**Site Location:**	**San Juan River Basin, New Mexico**

Photograph ID: 1

Photo Location:
MW-21

Direction:
Southeast

Survey Date:
8/26/2022

Comments:
Sierra clears brush before placing skimmer system over MW-21.

Photograph ID: 2

Photo Location:
MW-21

Direction:
South

Survey Date:
8/26/2022

Comments:
Solar LNAPL Skimmer System in place over MW-21 with (2) 100W solar panels installed. Inset housing for battery bank and skimmer panel visible.

Stantec

Photographic Log

Client:	**El Paso CGP**	**Project:**	**Solar LNAPL Skimmer Install**
Site Name:	**Johnston Federal 4**	**Site Location:**	**San Juan River Basin, New Mexico**

Photograph ID: 3 **Photo Location:** MW-21 **Direction:** Northwest **Survey Date:** 8/26/2022 **Comments:** Solar LNAPL Skimmer System in place over MW-21. Ventilation and solar powered cellular security camera visible.	
Photograph ID: 4 **Photo Location:** MW-21 **Direction:** NA **Survey Date:** 8/27/2022 **Comments:** MW-21 stickup with skimmer installed. Thermometer and stickup are viewable from cellular camera inside the shipping container.	

Stantec

Photographic Log

Client:	**El Paso CGP**	**Project:**	**Solar LNAPL Skimmer Install**
Site Name:	**Johnston Federal 4**	**Site Location:**	**San Juan River Basin, New Mexico**

Photograph ID: 5

Photo Location:
MW-21

Direction:
South

Survey Date:
8/27/2022

Comments:
Workers placed and secured plastic sheeting to catch sandblast material and paint backsplash for removal from site.

Photograph ID: 6

Photo Location:
MW-21

Direction:
West

Survey Date:
8/27/2022

Comments:
Painted conex (Carlsbad Canyon Tan) with solar security camera and warning signage.

APPENDIX G

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-220399-1
Client Project/Site: Johnston Fed #4

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

Attn: Steve Varsa

Authorized for release by:
6/8/2022 8:58:25 AM
Isabel Enfinger, Project Manager I
(850)471-6237
isabel.enfinger@et.eurofinsus.com

Designee for

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

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

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

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Laboratory Job ID: 400-220399-1

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Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Job ID: 400-220399-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-220399-1

Comments
No additional comments.

Receipt
The samples were received on 5/24/2022 9:02 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.0º C.

GC/MS VOA
Method 8260C: Surrogate recovery for the following sample was outside control limits: MW-6 (400-220399-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 Fed #4

Job ID: 400-220399-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 400-220399-1

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 400-220399-2

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

Client Sample ID: MW-9 — Lab Sample ID: 400-220399-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	56		1.0		ug/L	1		8260C	Total/NA
Toluene	1.7		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 400-220399-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	10		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-15 — Lab Sample ID: 400-220399-5

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

Client Sample ID: MW-16 — Lab Sample ID: 400-220399-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-17 — Lab Sample ID: 400-220399-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 400-220399-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	7.9		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.6		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	11		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 400-220399-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	10		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 400-220399-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	120		1.0		ug/L	1		8260C	Total/NA
Toluene	2.0		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	2.6		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	23		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 400-220399-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: DUP-01 — Lab Sample ID: 400-220399-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.9		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-220399-1	TRIP BLANK	Water	05/20/22 13:30	05/24/22 09:02
400-220399-2	MW-6	Water	05/20/22 15:50	05/24/22 09:02
400-220399-3	MW-9	Water	05/20/22 15:00	05/24/22 09:02
400-220399-4	MW-13	Water	05/20/22 16:00	05/24/22 09:02
400-220399-5	MW-15	Water	05/20/22 16:10	05/24/22 09:02
400-220399-6	MW-16	Water	05/20/22 16:20	05/24/22 09:02
400-220399-7	MW-17	Water	05/20/22 16:35	05/24/22 09:02
400-220399-8	MW-18	Water	05/20/22 15:10	05/24/22 09:02
400-220399-9	MW-19	Water	05/20/22 14:50	05/24/22 09:02
400-220399-10	MW-20	Water	05/20/22 17:00	05/24/22 09:02
400-220399-11	MW-23	Water	05/20/22 16:50	05/24/22 09:02
400-220399-12	DUP-01	Water	05/20/22 15:15	05/24/22 09:02

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: TRIP BLANK

Date Collected: 05/20/22 13:30
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/02/22 18:29	1
Toluene	<1.0		1.0		ug/L			06/02/22 18:29	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 18:29	1
Xylenes, Total	<10		10		ug/L			06/02/22 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*72 - 119*		*06/02/22 18:29*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*06/02/22 18:29*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*06/02/22 18:29*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-6

Date Collected: 05/20/22 15:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.7**		1.0		ug/L			06/02/22 15:08	1
Toluene	<1.0		1.0		ug/L			06/02/22 15:08	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 15:08	1
Xylenes, Total	<10		10		ug/L			06/02/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*	*S1+*	*72 - 119*		*06/02/22 15:08*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*06/02/22 15:08*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*06/02/22 15:08*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-9

Date Collected: 05/20/22 15:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**56**		1.0		ug/L			06/02/22 21:01	1
Toluene	**1.7**		1.0		ug/L			06/02/22 21:01	1
Ethylbenzene	**1.1**		1.0		ug/L			06/02/22 21:01	1
Xylenes, Total	<10		10		ug/L			06/02/22 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*72 - 119*		*06/02/22 21:01*	*1*
Dibromofluoromethane	*99*		*75 - 126*		*06/02/22 21:01*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*06/02/22 21:01*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-13

Date Collected: 05/20/22 16:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**10**		1.0		ug/L			06/02/22 21:26	1
Toluene	<1.0		1.0		ug/L			06/02/22 21:26	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 21:26	1
Xylenes, Total	<10		10		ug/L			06/02/22 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*06/02/22 21:26*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*06/02/22 21:26*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*06/02/22 21:26*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-15

Date Collected: 05/20/22 16:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.9**		1.0		ug/L			06/02/22 21:51	1
Toluene	<1.0		1.0		ug/L			06/02/22 21:51	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 21:51	1
Xylenes, Total	<10		10		ug/L			06/02/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*06/02/22 21:51*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*06/02/22 21:51*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*06/02/22 21:51*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-16

Date Collected: 05/20/22 16:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-6

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.4**		1.0		ug/L			06/02/22 22:16	1
Toluene	<1.0		1.0		ug/L			06/02/22 22:16	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 22:16	1
Xylenes, Total	<10		10		ug/L			06/02/22 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*72 - 119*		*06/02/22 22:16*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*06/02/22 22:16*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*06/02/22 22:16*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-17

Date Collected: 05/20/22 16:35
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-7

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**		1.0		ug/L			06/02/22 22:41	1
Toluene	<1.0		1.0		ug/L			06/02/22 22:41	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 22:41	1
Xylenes, Total	<10		10		ug/L			06/02/22 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*72 - 119*		*06/02/22 22:41*	*1*
Dibromofluoromethane	*100*		*75 - 126*		*06/02/22 22:41*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*06/02/22 22:41*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-18

Date Collected: 05/20/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-8

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.9**		1.0		ug/L			06/02/22 23:06	1
Toluene	<1.0		1.0		ug/L			06/02/22 23:06	1
Ethylbenzene	**1.6**		1.0		ug/L			06/02/22 23:06	1
Xylenes, Total	**11**		10		ug/L			06/02/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*06/02/22 23:06*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*06/02/22 23:06*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*06/02/22 23:06*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-19

Date Collected: 05/20/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-9

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**10**		1.0		ug/L			06/02/22 23:31	1
Toluene	<1.0		1.0		ug/L			06/02/22 23:31	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 23:31	1
Xylenes, Total	<10		10		ug/L			06/02/22 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*72 - 119*		*06/02/22 23:31*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*06/02/22 23:31*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*06/02/22 23:31*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-20

Date Collected: 05/20/22 17:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-10

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**120**		1.0		ug/L			06/03/22 12:04	1
Toluene	**2.0**		1.0		ug/L			06/03/22 12:04	1
Ethylbenzene	**2.6**		1.0		ug/L			06/03/22 12:04	1
Xylenes, Total	**23**		10		ug/L			06/03/22 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*118*		*72 - 119*		*06/03/22 12:04*	*1*
Dibromofluoromethane	*103*		*75 - 126*		*06/03/22 12:04*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*06/03/22 12:04*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-23

Date Collected: 05/20/22 16:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-11

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/03/22 11:39	1
Toluene	<1.0		1.0		ug/L			06/03/22 11:39	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 11:39	1
Xylenes, Total	<10		10		ug/L			06/03/22 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*72 - 119*		*06/03/22 11:39*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*06/03/22 11:39*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*06/03/22 11:39*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: DUP-01

Date Collected: 05/20/22 15:15
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-12

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.9**		1.0		ug/L			06/03/22 12:29	1
Toluene	<1.0		1.0		ug/L			06/03/22 12:29	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 12:29	1
Xylenes, Total	<10		10		ug/L			06/03/22 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*72 - 119*		*06/03/22 12:29*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*06/03/22 12:29*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*06/03/22 12:29*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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 Fed #4

Job ID: 400-220399-1

Client Sample ID: TRIP BLANK
Date Collected: 05/20/22 13:30
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 18:29	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-6
Date Collected: 05/20/22 15:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 15:08	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-9
Date Collected: 05/20/22 15:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 21:01	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-13
Date Collected: 05/20/22 16:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 21:26	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-15
Date Collected: 05/20/22 16:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 21:51	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-16
Date Collected: 05/20/22 16:20
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 22:16	SAB	TAL PEN
	Instrument ID: CH_LARS									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

Client Sample ID: MW-17
Date Collected: 05/20/22 16:35
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 22:41	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-18
Date Collected: 05/20/22 15:10
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 23:06	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-19
Date Collected: 05/20/22 14:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579828	06/02/22 23:31	SAB	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-20
Date Collected: 05/20/22 17:00
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579932	06/03/22 12:04	CAR	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: MW-23
Date Collected: 05/20/22 16:50
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	579932	06/03/22 11:39	CAR	TAL PEN
	Instrument ID: CH_LARS									

Client Sample ID: DUP-01
Date Collected: 05/20/22 15:15
Date Received: 05/24/22 09:02

Lab Sample ID: 400-220399-12
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	8260C		1	5 mL	5 mL	579932	06/03/22 12:29	CAR	TAL PEN
	Instrument ID: CH_LARS									

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

Eurofins Pensacola

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

GC/MS VOA

Analysis Batch: 579828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220399-1	TRIP BLANK	Total/NA	Water	8260C	
400-220399-2	MW-6	Total/NA	Water	8260C	
400-220399-3	MW-9	Total/NA	Water	8260C	
400-220399-4	MW-13	Total/NA	Water	8260C	
400-220399-5	MW-15	Total/NA	Water	8260C	
400-220399-6	MW-16	Total/NA	Water	8260C	
400-220399-7	MW-17	Total/NA	Water	8260C	
400-220399-8	MW-18	Total/NA	Water	8260C	
400-220399-9	MW-19	Total/NA	Water	8260C	
MB 400-579828/5	Method Blank	Total/NA	Water	8260C	
LCS 400-579828/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220399-2 MS	MW-6	Total/NA	Water	8260C	
400-220399-2 MSD	MW-6	Total/NA	Water	8260C	

Analysis Batch: 579932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-220399-10	MW-20	Total/NA	Water	8260C	
400-220399-11	MW-23	Total/NA	Water	8260C	
400-220399-12	DUP-01	Total/NA	Water	8260C	
MB 400-579932/5	Method Blank	Total/NA	Water	8260C	
LCS 400-579932/1002	Lab Control Sample	Total/NA	Water	8260C	
400-220399-11 MS	MW-23	Total/NA	Water	8260C	
400-220399-11 MSD	MW-23	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

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

Lab Sample ID: MB 400-579828/5
Matrix: Water
Analysis Batch: 579828

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/02/22 13:52	1
Toluene	<1.0		1.0		ug/L			06/02/22 13:52	1
Ethylbenzene	<1.0		1.0		ug/L			06/02/22 13:52	1
Xylenes, Total	<10		10		ug/L			06/02/22 13:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*72 - 119*		*06/02/22 13:52*	*1*
Dibromofluoromethane	*98*		*75 - 126*		*06/02/22 13:52*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*06/02/22 13:52*	*1*

Lab Sample ID: LCS 400-579828/1002
Matrix: Water
Analysis Batch: 579828

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	52.9		ug/L		106	70 - 130		
Toluene			50.0	54.4		ug/L		109	70 - 130		
Ethylbenzene			50.0	59.0		ug/L		118	70 - 130		
Xylenes, Total			100	118		ug/L		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*72 - 119*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

Lab Sample ID: 400-220399-2 MS
Matrix: Water
Analysis Batch: 579828

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	1.7		50.0	52.1		ug/L		101	56 - 142		
Toluene	<1.0		50.0	52.1		ug/L		104	65 - 130		
Ethylbenzene	<1.0		50.0	54.2		ug/L		108	58 - 131		
Xylenes, Total	<10		100	112		ug/L		112	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*109*		*72 - 119*
Dibromofluoromethane	*95*		*75 - 126*
Toluene-d8 (Surr)	*101*		*64 - 132*

Lab Sample ID: 400-220399-2 MSD
Matrix: Water
Analysis Batch: 579828

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	1.7		50.0	50.1		ug/L		97	56 - 142	4	30
Toluene	<1.0		50.0	50.1		ug/L		100	65 - 130	4	30
Ethylbenzene	<1.0		50.0	52.3		ug/L		105	58 - 131	4	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

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

Lab Sample ID: 400-220399-2 MSD — **Client Sample ID: MW-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 579828

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	<10		100	106		ug/L		106	59 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*72 - 119*
Dibromofluoromethane	*97*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

Lab Sample ID: MB 400-579932/5 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 579932

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/03/22 10:23	1
Toluene	<1.0		1.0		ug/L			06/03/22 10:23	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/22 10:23	1
Xylenes, Total	<10		10		ug/L			06/03/22 10:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*118*		*72 - 119*		*06/03/22 10:23*	*1*
Dibromofluoromethane	*101*		*75 - 126*		*06/03/22 10:23*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*06/03/22 10:23*	*1*

Lab Sample ID: LCS 400-579932/1002 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 579932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	52.4		ug/L		105	70 - 130		
Toluene			50.0	55.2		ug/L		110	70 - 130		
Ethylbenzene			50.0	57.8		ug/L		116	70 - 130		
Xylenes, Total			100	117		ug/L		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*72 - 119*
Dibromofluoromethane	*96*		*75 - 126*
Toluene-d8 (Surr)	*100*		*64 - 132*

Lab Sample ID: 400-220399-11 MS — **Client Sample ID: MW-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 579932

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<1.0		50.0	50.5		ug/L		101	56 - 142		
Toluene	<1.0		50.0	50.9		ug/L		102	65 - 130		
Ethylbenzene	<1.0		50.0	52.1		ug/L		104	58 - 131		
Xylenes, Total	<10		100	106		ug/L		106	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Fed #4

Job ID: 400-220399-1

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

Lab Sample ID: 400-220399-11 MS
Matrix: Water
Analysis Batch: 579932

Client Sample ID: MW-23
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	106		72 - 119
Dibromofluoromethane	97		75 - 126
Toluene-d8 (Surr)	101		64 - 132

Lab Sample ID: 400-220399-11 MSD
Matrix: Water
Analysis Batch: 579932

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<1.0		50.0	46.2		ug/L		92	56 - 142	9	30
Toluene	<1.0		50.0	43.2		ug/L		86	65 - 130	16	30
Ethylbenzene	<1.0		50.0	39.4		ug/L		79	58 - 131	28	30
Xylenes, Total	<10		100	79.9		ug/L		80	59 - 130	28	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	110		72 - 119
Dibromofluoromethane	96		75 - 126
Toluene-d8 (Surr)	101		64 - 132

Chain of Custody Record 465190

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TAL-8210

Address: 3555 McLemore Drive Pensacola, FL 32514

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: NMOCD

Client Contact
Company Name: Stantec Consulting Services
Address: 11311 Aurora Avenue
City/State/Zip: Des Moines, IA 50322
Phone: (515) 710-7523
Fax:
Project Name: Johnston Fed #4
Site: Johnston Fed #4
PO #

Project Manager: Cheyenne Whitmore
Tel/Email: Cheyenne.Whitmore@st...
Site Contact: Sarah Gardner
Lab Contact: Cheyenne W.
Date: 5/20/2022
Carrier: FedEx

COC No:
1 of 1 COCs
Sampler: Sarah Gardner
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Analysis Turnaround Time
☐ CALENDAR DAYS ☐ WORKING DAYS
TAT if different from Below ______
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day
See ARF-STN-05 W-ERG-2022-...

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260B-BTEX	Sample Specific Notes:
Trip Blank	5/20/22	1330	G	W	2	N	N	2	
MW-6	5/20/22	1550	G	W	3	N	N	3	
MW-9	5/20/22	1500	G	W	3	N	N	3	
MW-13	5/20/22	1600	G	W	3	N	N	3	
MW-15	5/20/22	1610	G	W	3	N	N	3	
MW-16	5/20/22	1620	G	W	3	N	N	3	
MW-17	5/20/22	1635	G	W	3	N	N	3	
MW-18	5/20/22	1510	G	W	3	N	N	3	
MW-19	5/20/22	1450	G	W	3	N	N	3	
MW-20	5/20/22	1700	G	W	3	N	N	3	
MW-23	5/20/22	1650	G	W	3	N	N	3	
DUP-01	5/20/22	1515	G	W	3	N	N	3	

400-220399 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ______

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for ______ Months

Special Instructions/QC Requirements & Comments:

0.0°C IR9

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temp. (°C): Obs'd: ______ Corr'd: ______ Therm ID No.: ______

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Stantec	5/23/22 1215			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company:	Date/Time: 5-24-22 / 902

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6/8/2022

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-220399-1

Login Number: 220399 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR9
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: 400-220399-1
Project/Site: Johnston Fed #4

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-22
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-22
California	State	2510	06-30-22
Florida	NELAP	E81010	06-30-22
Georgia	State	E81010(FL)	06-30-22
Illinois	NELAP	200041	10-09-22
Kansas	NELAP	E-10253	10-31-22
Kentucky (UST)	State	53	06-30-22
Kentucky (WW)	State	KY98030	12-31-22
Louisiana	NELAP	30976	06-30-22
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-22
Massachusetts	State	M-FL094	06-30-22
Michigan	State	9912	06-30-22
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-22
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-22
Tennessee	State	TN02907	06-30-22
Texas	NELAP	T104704286	09-30-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-22
West Virginia DEP	State	136	03-31-23

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/29/2022 8:40:42 PM

JOB DESCRIPTION

Johnston Federal #4

JOB NUMBER

400-228570-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

See page two for job notes and contact information.

Released to Imaging: 5/17/2023 1:06:54 PM

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Job Notes

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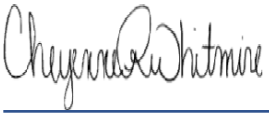
Authorization



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Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Laboratory Job ID: 400-228570-1

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Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Job ID: 400-228570-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-228570-1

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

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-11 (400-228570-9). Elevated reporting limits (RLs) are provided.

Method 8260C: Surrogate recovery for the following sample was outside control limits: MW-20 (400-228570-18). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Method 8260C: One of three surrogate recoveries for the matrix spike (MS) for analytical batch 400-601330 were outside control limits. All of the target analytes are within acceptance limits. Therefore, the data is reported.

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: TB-01 Lab Sample ID: 400-228570-1

No Detections.

Client Sample ID: DUP-01 Lab Sample ID: 400-228570-2

No Detections.

Client Sample ID: DUP-02 Lab Sample ID: 400-228570-3

No Detections.

Client Sample ID: MW-2 Lab Sample ID: 400-228570-4

No Detections.

Client Sample ID: MW-4 Lab Sample ID: 400-228570-5

No Detections.

Client Sample ID: MW-6 Lab Sample ID: 400-228570-6

No Detections.

Client Sample ID: MW-9 Lab Sample ID: 400-228570-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	39		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-10 Lab Sample ID: 400-228570-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	36		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-11 Lab Sample ID: 400-228570-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	290		2.0		ug/L	2		8260C	Total/NA
Toluene	240		2.0		ug/L	2		8260C	Total/NA
Ethylbenzene	280		2.0		ug/L	2		8260C	Total/NA
Xylenes, Total	330		20		ug/L	2		8260C	Total/NA

Client Sample ID: MW-12 Lab Sample ID: 400-228570-10

No Detections.

Client Sample ID: MW-13 Lab Sample ID: 400-228570-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	2.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-14 Lab Sample ID: 400-228570-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	4.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-15 Lab Sample ID: 400-228570-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	21		1.0		ug/L	1		8260C	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

Job ID: 400-228570-1

Client Sample ID: MW-16 Lab Sample ID: 400-228570-14

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

Client Sample ID: MW-17 Lab Sample ID: 400-228570-15

No Detections.

Client Sample ID: MW-18 Lab Sample ID: 400-228570-16

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	3.5		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-19 Lab Sample ID: 400-228570-17

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	8.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-20 Lab Sample ID: 400-228570-18

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	43		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	2.3		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	11		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-23 Lab Sample ID: 400-228570-19

No Detections.

Client Sample ID: MW-24 Lab Sample ID: 400-228570-20

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	100		1.0		ug/L	1		8260C	Total/NA
Toluene	2.4		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	20		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	47		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-25 Lab Sample ID: 400-228570-21

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	8.7		1.0		ug/L	1		8260C	Total/NA
Xylenes, Total	31		10		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-228570-1	TB-01	Water	11/05/22 12:00	11/08/22 09:32
400-228570-2	DUP-01	Water	11/05/22 12:00	11/08/22 09:32
400-228570-3	DUP-02	Water	11/05/22 12:00	11/08/22 09:32
400-228570-4	MW-2	Water	11/05/22 12:40	11/08/22 09:32
400-228570-5	MW-4	Water	11/05/22 12:53	11/08/22 09:32
400-228570-6	MW-6	Water	11/05/22 12:21	11/08/22 09:32
400-228570-7	MW-9	Water	11/05/22 13:05	11/08/22 09:32
400-228570-8	MW-10	Water	11/05/22 13:16	11/08/22 09:32
400-228570-9	MW-11	Water	11/05/22 13:27	11/08/22 09:32
400-228570-10	MW-12	Water	11/05/22 13:50	11/08/22 09:32
400-228570-11	MW-13	Water	11/05/22 14:01	11/08/22 09:32
400-228570-12	MW-14	Water	11/05/22 14:12	11/08/22 09:32
400-228570-13	MW-15	Water	11/05/22 14:23	11/08/22 09:32
400-228570-14	MW-16	Water	11/05/22 14:33	11/08/22 09:32
400-228570-15	MW-17	Water	11/05/22 14:43	11/08/22 09:32
400-228570-16	MW-18	Water	11/05/22 14:47	11/08/22 09:32
400-228570-17	MW-19	Water	11/05/22 14:51	11/08/22 09:32
400-228570-18	MW-20	Water	11/05/22 14:59	11/08/22 09:32
400-228570-19	MW-23	Water	11/05/22 15:08	11/08/22 09:32
400-228570-20	MW-24	Water	11/05/22 15:12	11/08/22 09:32
400-228570-21	MW-25	Water	11/05/22 15:18	11/08/22 09:32

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: TB-01

Date Collected: 11/05/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-1

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/22 21:18	1
Toluene	<1.0		1.0		ug/L			11/16/22 21:18	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/22 21:18	1
Xylenes, Total	<10		10		ug/L			11/16/22 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/16/22 21:18*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/16/22 21:18*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/16/22 21:18*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: DUP-01

Date Collected: 11/05/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/22 23:48	1
Toluene	<1.0		1.0		ug/L			11/16/22 23:48	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/22 23:48	1
Xylenes, Total	<10		10		ug/L			11/16/22 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/16/22 23:48*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/16/22 23:48*	*1*
Toluene-d8 (Surr)	*105*		*64 - 132*		*11/16/22 23:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: DUP-02

Date Collected: 11/05/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-3

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 00:13	1
Toluene	<1.0		1.0		ug/L			11/17/22 00:13	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 00:13	1
Xylenes, Total	<10		10		ug/L			11/17/22 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/17/22 00:13*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/17/22 00:13*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/17/22 00:13*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-2

Date Collected: 11/05/22 12:40
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-4

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 00:38	1
Toluene	<1.0		1.0		ug/L			11/17/22 00:38	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 00:38	1
Xylenes, Total	<10		10		ug/L			11/17/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 119*		*11/17/22 00:38*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/17/22 00:38*	*1*
Toluene-d8 (Surr)	*105*		*64 - 132*		*11/17/22 00:38*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-4

Date Collected: 11/05/22 12:53
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-5

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 01:03	1
Toluene	<1.0		1.0		ug/L			11/17/22 01:03	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 01:03	1
Xylenes, Total	<10		10		ug/L			11/17/22 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/17/22 01:03*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/17/22 01:03*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/17/22 01:03*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-6

Date Collected: 11/05/22 12:21
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-6

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 01:28	1
Toluene	<1.0		1.0		ug/L			11/17/22 01:28	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 01:28	1
Xylenes, Total	<10		10		ug/L			11/17/22 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/17/22 01:28*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*11/17/22 01:28*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/17/22 01:28*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-9

Date Collected: 11/05/22 13:05
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-7

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**39**		1.0		ug/L			11/17/22 01:53	1
Toluene	<1.0		1.0		ug/L			11/17/22 01:53	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 01:53	1
Xylenes, Total	<10		10		ug/L			11/17/22 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/17/22 01:53*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/17/22 01:53*	*1*
Toluene-d8 (Surr)	*100*		*64 - 132*		*11/17/22 01:53*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-10

Date Collected: 11/05/22 13:16
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-8

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**36**		1.0		ug/L			11/17/22 02:18	1
Toluene	<1.0		1.0		ug/L			11/17/22 02:18	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 02:18	1
Xylenes, Total	<10		10		ug/L			11/17/22 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 119*		*11/17/22 02:18*	*1*
Dibromofluoromethane	*89*		*75 - 126*		*11/17/22 02:18*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/17/22 02:18*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-11

Date Collected: 11/05/22 13:27
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-9

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**290**		2.0		ug/L			11/17/22 03:33	2
Toluene	**240**		2.0		ug/L			11/17/22 03:33	2
Ethylbenzene	**280**		2.0		ug/L			11/17/22 03:33	2
Xylenes, Total	**330**		20		ug/L			11/17/22 03:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 119*		*11/17/22 03:33*	*2*
Dibromofluoromethane	*82*		*75 - 126*		*11/17/22 03:33*	*2*
Toluene-d8 (Surr)	*110*		*64 - 132*		*11/17/22 03:33*	*2*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-12

Date Collected: 11/05/22 13:50
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-10

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 02:43	1
Toluene	<1.0		1.0		ug/L			11/17/22 02:43	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 02:43	1
Xylenes, Total	<10		10		ug/L			11/17/22 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 119*		*11/17/22 02:43*	*1*
Dibromofluoromethane	*94*		*75 - 126*		*11/17/22 02:43*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*11/17/22 02:43*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-13

Date Collected: 11/05/22 14:01
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-11

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.1**		1.0		ug/L			11/17/22 13:02	1
Toluene	<1.0		1.0		ug/L			11/17/22 13:02	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 13:02	1
Xylenes, Total	<10		10		ug/L			11/17/22 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 119*		*11/17/22 13:02*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*11/17/22 13:02*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/17/22 13:02*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-14

Date Collected: 11/05/22 14:12
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-12

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.4**		1.0		ug/L			11/17/22 15:33	1
Toluene	<1.0		1.0		ug/L			11/17/22 15:33	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 15:33	1
Xylenes, Total	<10		10		ug/L			11/17/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*115*		*72 - 119*		*11/17/22 15:33*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/17/22 15:33*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*11/17/22 15:33*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-15
Date Collected: 11/05/22 14:23
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-13
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**21**		1.0		ug/L			11/17/22 15:58	1
Toluene	<1.0		1.0		ug/L			11/17/22 15:58	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 15:58	1
Xylenes, Total	<10		10		ug/L			11/17/22 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*72 - 119*		*11/17/22 15:58*	*1*
Dibromofluoromethane	*88*		*75 - 126*		*11/17/22 15:58*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/17/22 15:58*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-16
Date Collected: 11/05/22 14:33
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-14
Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.6**		1.0		ug/L			11/17/22 16:23	1
Toluene	<1.0		1.0		ug/L			11/17/22 16:23	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 16:23	1
Xylenes, Total	<10		10		ug/L			11/17/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/17/22 16:23*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/17/22 16:23*	*1*
Toluene-d8 (Surr)	*116*		*64 - 132*		*11/17/22 16:23*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-17

Date Collected: 11/05/22 14:43
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-15

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 16:48	1
Toluene	<1.0		1.0		ug/L			11/17/22 16:48	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 16:48	1
Xylenes, Total	<10		10		ug/L			11/17/22 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*72 - 119*		*11/17/22 16:48*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/17/22 16:48*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*11/17/22 16:48*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-18

Date Collected: 11/05/22 14:47
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-16

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.5**		1.0		ug/L			11/17/22 17:13	1
Toluene	<1.0		1.0		ug/L			11/17/22 17:13	1
Ethylbenzene	**1.0**		1.0		ug/L			11/17/22 17:13	1
Xylenes, Total	<10		10		ug/L			11/17/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*72 - 119*		*11/17/22 17:13*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/17/22 17:13*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/17/22 17:13*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-19

Date Collected: 11/05/22 14:51
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-17

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**8.6**		1.0		ug/L			11/17/22 17:38	1
Toluene	<1.0		1.0		ug/L			11/17/22 17:38	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 17:38	1
Xylenes, Total	<10		10		ug/L			11/17/22 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*72 - 119*		*11/17/22 17:38*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/17/22 17:38*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/17/22 17:38*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-20

Date Collected: 11/05/22 14:59
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-18

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**43**		1.0		ug/L			11/18/22 20:27	1
Toluene	<1.0		1.0		ug/L			11/18/22 20:27	1
Ethylbenzene	**2.3**		1.0		ug/L			11/18/22 20:27	1
Xylenes, Total	**11**		10		ug/L			11/18/22 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*121*	*S1+*	*72 - 119*		*11/18/22 20:27*	*1*
Dibromofluoromethane	*90*		*75 - 126*		*11/18/22 20:27*	*1*
Toluene-d8 (Surr)	*95*		*64 - 132*		*11/18/22 20:27*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-23

Date Collected: 11/05/22 15:08
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-19

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 18:28	1
Toluene	<1.0		1.0		ug/L			11/17/22 18:28	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 18:28	1
Xylenes, Total	<10		10		ug/L			11/17/22 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/17/22 18:28*	*1*
Dibromofluoromethane	*92*		*75 - 126*		*11/17/22 18:28*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*11/17/22 18:28*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-24

Date Collected: 11/05/22 15:12
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-20

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**100**		1.0		ug/L			11/17/22 18:53	1
Toluene	**2.4**		1.0		ug/L			11/17/22 18:53	1
Ethylbenzene	**20**		1.0		ug/L			11/17/22 18:53	1
Xylenes, Total	**47**		10		ug/L			11/17/22 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*72 - 119*		*11/17/22 18:53*	*1*
Dibromofluoromethane	*87*		*75 - 126*		*11/17/22 18:53*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*11/17/22 18:53*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-25

Date Collected: 11/05/22 15:18
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-21

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 19:19	1
Toluene	<1.0		1.0		ug/L			11/17/22 19:19	1
Ethylbenzene	**8.7**		1.0		ug/L			11/17/22 19:19	1
Xylenes, Total	**31**		10		ug/L			11/17/22 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 119*		*11/17/22 19:19*	*1*
Dibromofluoromethane	*86*		*75 - 126*		*11/17/22 19:19*	*1*
Toluene-d8 (Surr)	*94*		*64 - 132*		*11/17/22 19:19*	*1*

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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

Job ID: 400-228570-1

Client Sample ID: TB-01
Date Collected: 11/05/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/16/22 21:18	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: DUP-01
Date Collected: 11/05/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/16/22 23:48	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: DUP-02
Date Collected: 11/05/22 12:00
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/17/22 00:13	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-2
Date Collected: 11/05/22 12:40
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/17/22 00:38	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-4
Date Collected: 11/05/22 12:53
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/17/22 01:03	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-6
Date Collected: 11/05/22 12:21
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/17/22 01:28	JE	EET PEN
	Instrument ID: Argo									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-9
Date Collected: 11/05/22 13:05
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/17/22 01:53	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-10
Date Collected: 11/05/22 13:16
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/17/22 02:18	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-11
Date Collected: 11/05/22 13:27
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	5 mL	5 mL	600916	11/17/22 03:33	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-12
Date Collected: 11/05/22 13:50
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	600916	11/17/22 02:43	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-13
Date Collected: 11/05/22 14:01
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	601129	11/17/22 13:02	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-14
Date Collected: 11/05/22 14:12
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-12
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	8260C		1	5 mL	5 mL	601129	11/17/22 15:33	JE	EET PEN
	Instrument ID: Argo									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-15
Date Collected: 11/05/22 14:23
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-13
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	8260C		1	5 mL	5 mL	601129	11/17/22 15:58	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-16
Date Collected: 11/05/22 14:33
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-14
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	8260C		1	5 mL	5 mL	601129	11/17/22 16:23	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-17
Date Collected: 11/05/22 14:43
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-15
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	8260C		1	5 mL	5 mL	601129	11/17/22 16:48	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-18
Date Collected: 11/05/22 14:47
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-16
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	8260C		1	5 mL	5 mL	601129	11/17/22 17:13	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-19
Date Collected: 11/05/22 14:51
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-17
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	8260C		1	5 mL	5 mL	601129	11/17/22 17:38	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-20
Date Collected: 11/05/22 14:59
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-18
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	8260C		1	5 mL	5 mL	601330	11/18/22 20:27	WPD	EET PEN
	Instrument ID: Argo									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

Client Sample ID: MW-23
Date Collected: 11/05/22 15:08
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-19
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	8260C		1	5 mL	5 mL	601129	11/17/22 18:28	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-24
Date Collected: 11/05/22 15:12
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-20
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	8260C		1	5 mL	5 mL	601129	11/17/22 18:53	JE	EET PEN
	Instrument ID: Argo									

Client Sample ID: MW-25
Date Collected: 11/05/22 15:18
Date Received: 11/08/22 09:32

Lab Sample ID: 400-228570-21
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	8260C		1	5 mL	5 mL	601129	11/17/22 19:19	JE	EET PEN
	Instrument ID: Argo									

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

Job ID: 400-228570-1

GC/MS VOA

Analysis Batch: 600916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228570-1	TB-01	Total/NA	Water	8260C	
400-228570-2	DUP-01	Total/NA	Water	8260C	
400-228570-3	DUP-02	Total/NA	Water	8260C	
400-228570-4	MW-2	Total/NA	Water	8260C	
400-228570-5	MW-4	Total/NA	Water	8260C	
400-228570-6	MW-6	Total/NA	Water	8260C	
400-228570-7	MW-9	Total/NA	Water	8260C	
400-228570-8	MW-10	Total/NA	Water	8260C	
400-228570-9	MW-11	Total/NA	Water	8260C	
400-228570-10	MW-12	Total/NA	Water	8260C	
MB 400-600916/4	Method Blank	Total/NA	Water	8260C	
LCS 400-600916/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228883-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
400-228883-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 601129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228570-11	MW-13	Total/NA	Water	8260C	
400-228570-12	MW-14	Total/NA	Water	8260C	
400-228570-13	MW-15	Total/NA	Water	8260C	
400-228570-14	MW-16	Total/NA	Water	8260C	
400-228570-15	MW-17	Total/NA	Water	8260C	
400-228570-16	MW-18	Total/NA	Water	8260C	
400-228570-17	MW-19	Total/NA	Water	8260C	
400-228570-19	MW-23	Total/NA	Water	8260C	
400-228570-20	MW-24	Total/NA	Water	8260C	
400-228570-21	MW-25	Total/NA	Water	8260C	
MB 400-601129/4	Method Blank	Total/NA	Water	8260C	
LCS 400-601129/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228570-11 MS	MW-13	Total/NA	Water	8260C	
400-228570-11 MSD	MW-13	Total/NA	Water	8260C	

Analysis Batch: 601330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-228570-18	MW-20	Total/NA	Water	8260C	
MB 400-601330/4	Method Blank	Total/NA	Water	8260C	
LCS 400-601330/1002	Lab Control Sample	Total/NA	Water	8260C	
400-228564-A-4 MS	Matrix Spike	Total/NA	Water	8260C	
400-228564-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

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

Lab Sample ID: MB 400-600916/4
Matrix: Water
Analysis Batch: 600916

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/16/22 17:58	1
Toluene	<1.0		1.0		ug/L			11/16/22 17:58	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/22 17:58	1
Xylenes, Total	<10		10		ug/L			11/16/22 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/16/22 17:58*	*1*
Dibromofluoromethane	*87*		*75 - 126*		*11/16/22 17:58*	*1*
Toluene-d8 (Surr)	*106*		*64 - 132*		*11/16/22 17:58*	*1*

Lab Sample ID: LCS 400-600916/1002
Matrix: Water
Analysis Batch: 600916

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	51.6		ug/L		103	70 - 130		
Toluene			50.0	56.4		ug/L		113	70 - 130		
Ethylbenzene			50.0	59.2		ug/L		118	70 - 130		
Xylenes, Total			100	107		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*72 - 119*
Dibromofluoromethane	*86*		*75 - 126*
Toluene-d8 (Surr)	*104*		*64 - 132*

Lab Sample ID: 400-228883-A-2 MS
Matrix: Water
Analysis Batch: 600916

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	20		50.0	69.1		ug/L		98	56 - 142		
Toluene	12		50.0	56.7		ug/L		89	65 - 130		
Ethylbenzene	<1.0		50.0	48.7		ug/L		96	58 - 131		
Xylenes, Total	<10		100	95.0		ug/L		91	59 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 119*
Dibromofluoromethane	*89*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: 400-228883-A-2 MSD
Matrix: Water
Analysis Batch: 600916

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	20		50.0	72.5		ug/L		105	56 - 142	5	30
Toluene	12		50.0	60.2		ug/L		96	65 - 130	6	30
Ethylbenzene	<1.0		50.0	49.9		ug/L		98	58 - 131	2	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

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

Lab Sample ID: 400-228883-A-2 MSD
Matrix: Water
Analysis Batch: 600916

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	<10		100	94.6		ug/L		91	59 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 119*
Dibromofluoromethane	*88*		*75 - 126*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: MB 400-601129/4
Matrix: Water
Analysis Batch: 601129

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/17/22 12:12	1
Toluene	<1.0		1.0		ug/L			11/17/22 12:12	1
Ethylbenzene	<1.0		1.0		ug/L			11/17/22 12:12	1
Xylenes, Total	<10		10		ug/L			11/17/22 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 119*		*11/17/22 12:12*	*1*
Dibromofluoromethane	*85*		*75 - 126*		*11/17/22 12:12*	*1*
Toluene-d8 (Surr)	*108*		*64 - 132*		*11/17/22 12:12*	*1*

Lab Sample ID: LCS 400-601129/1002
Matrix: Water
Analysis Batch: 601129

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	53.7		ug/L		107	70 - 130		
Toluene			50.0	56.2		ug/L		112	70 - 130		
Ethylbenzene			50.0	58.6		ug/L		117	70 - 130		
Xylenes, Total			100	110		ug/L		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*72 - 119*
Dibromofluoromethane	*84*		*75 - 126*
Toluene-d8 (Surr)	*104*		*64 - 132*

Lab Sample ID: 400-228570-11 MS
Matrix: Water
Analysis Batch: 601129

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	2.1		50.0	52.7		ug/L		101	56 - 142		
Toluene	<1.0		50.0	49.6		ug/L		99	65 - 130		
Ethylbenzene	<1.0		50.0	51.7		ug/L		103	58 - 131		
Xylenes, Total	<10		100	97.1		ug/L		97	59 - 130		

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

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

Lab Sample ID: 400-228570-11 MS
Matrix: Water
Analysis Batch: 601129

Client Sample ID: MW-13
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	100		72 - 119
Dibromofluoromethane	88		75 - 126
Toluene-d8 (Surr)	103		64 - 132

Lab Sample ID: 400-228570-11 MSD
Matrix: Water
Analysis Batch: 601129

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.1		50.0	54.5		ug/L		105	56 - 142	3	30
Toluene	<1.0		50.0	50.6		ug/L		101	65 - 130	2	30
Ethylbenzene	<1.0		50.0	54.7		ug/L		109	58 - 131	6	30
Xylenes, Total	<10		100	103		ug/L		103	59 - 130	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	100		72 - 119
Dibromofluoromethane	88		75 - 126
Toluene-d8 (Surr)	105		64 - 132

Lab Sample ID: MB 400-601330/4
Matrix: Water
Analysis Batch: 601330

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			11/18/22 11:17	1
Toluene	<1.0		1.0		ug/L			11/18/22 11:17	1
Ethylbenzene	<1.0		1.0		ug/L			11/18/22 11:17	1
Xylenes, Total	<10		10		ug/L			11/18/22 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83		72 - 119		11/18/22 11:17	1
Dibromofluoromethane	89		75 - 126		11/18/22 11:17	1
Toluene-d8 (Surr)	105		64 - 132		11/18/22 11:17	1

Lab Sample ID: LCS 400-601330/1002
Matrix: Water
Analysis Batch: 601330

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	54.0		ug/L		108	70 - 130		
Toluene			50.0	59.5		ug/L		119	70 - 130		
Ethylbenzene			50.0	56.2		ug/L		112	70 - 130		
Xylenes, Total			100	109		ug/L		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	115		72 - 119
Dibromofluoromethane	87		75 - 126

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-228570-1

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

Lab Sample ID: LCS 400-601330/1002
Matrix: Water
Analysis Batch: 601330

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	114		64 - 132

Lab Sample ID: 400-228564-A-4 MS
Matrix: Water
Analysis Batch: 601330

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.0		50.0	53.7		ug/L		103	56 - 142
Toluene	<1.0		50.0	53.1		ug/L		106	65 - 130
Ethylbenzene	1.2		50.0	53.6		ug/L		105	58 - 131
Xylenes, Total	<10		100	108		ug/L		108	59 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	136	S1+	72 - 119
Dibromofluoromethane	92		75 - 126
Toluene-d8 (Surr)	112		64 - 132

Lab Sample ID: 400-228564-A-4 MSD
Matrix: Water
Analysis Batch: 601330

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.0		50.0	52.0		ug/L		100	56 - 142	3	30
Toluene	<1.0		50.0	56.0		ug/L		112	65 - 130	5	30
Ethylbenzene	1.2		50.0	51.3		ug/L		100	58 - 131	4	30
Xylenes, Total	<10		100	100		ug/L		100	59 - 130	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	99		72 - 119
Dibromofluoromethane	87		75 - 126
Toluene-d8 (Surr)	118		64 - 132

Released to Imaging: 5/17/2023 1:06:34 PM
Received by OCD: 3/28/2023 8:20:06 PM

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	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114517-37675.1
Client Contact: Steve Varsa	Phone: 913 980 0221	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: ND	Page: Page 1 of 3 2
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040031			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH-07			
Project Name: Johnston Fed #4.00 SemiA	Project #: 40005479			
Site: J Fed 4	SSOW#:			

Analysis Requested

400-228570 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:

STN-07

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TB-01	11/5/22	1200	G	Water	—		2	2	Trip Blank
DUP-01	11/5/22	—	G	Water	—		3	3	
DUP-02	11/5/22	—	G	Water	—		3	3	
MW-2	11/5/22	1240	G	Water	—		3	3	
MW-4	11/5/22	1253	G	Water	—		3	3	
MW-6	11/5/22	1221	G	Water	—		3	3	
MW-9	11/5/22	1305	G	Water	—		3	3	
MW-10	11/5/22	1316	G	Water	—		3	3	
MW-11	11/5/22	1327	G	Water	—		3	3	
MW-12	11/5/22	1350	G	Water	—		3	3	
MW-13	11/5/22	1401	G	Water	—		3	3	

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sean R Clary	11/7/22 1200	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-8-22 9:32	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.0 i IR8

Ver: 06/08/2021

Released to Imaging: 5/17/2023 1:06:34 PM
Received by OCD: 3/28/2023 8:20:06 PM

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	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114517-37675.2
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin: NM	Page: Page 2 of 2
Company: Stantec Consulting Services Inc	PWSID:			Job #:
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone:	PO #: WD1040031			
Email: steve.varsa@stantec.com	WO #: ERG-STN-10-07-22-SAH-07			
Project Name: Johnston Fed #4.00 SemiA	Project #: 40005479			
Site: J Fed 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 (STN-07)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-14	11/5/22	1412	G	Water			3	3	
MW-15	11/5/22	1423	G	Water			3	3	
MW-16	11/5/22	1433	G	Water			3	3	
MW-17	11/5/22	1443	G	Water			3	3	
MW-18	11/5/22	1447	G	Water			3	3	
MW-19	11/5/22	1451	G	Water			3	3	
MW-20	11/5/22	1454	G	Water			3	3	
MW-23	11/5/22	1508	G	Water			3	3	
MW-24	11/5/22	1512	G	Water			3	3	
MW-25	11/5/22	1518	G	Water			3	3	
				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
	11/7/22 1200	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-8-22 4:32	Company

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

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

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-228570-1

Login Number: 228570 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-228570-1
Project/Site: Johnston Federal #4

Laboratory: Eurofins Pensacola

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

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

APPENDIX H

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/16/2022 9:53:26 AM

JOB DESCRIPTION

Johnston Federal #4

JOB NUMBER

400-227833-1

Eurofins Pensacola
3355 McLemore Drive
Pensacola FL 32514

Released to Imaging: 5/17/2023 1:06:34 PM

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Laboratory Job ID: 400-227833-1

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Appendix 21

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

Job ID: 400-227833-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative
400-227833-1

Comments
No additional comments.

Receipt
The samples were received on 10/26/2022 9:12 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS VOA
Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 400-598435 and analytical batch 400-598417 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 400-598435 and analytical batch 400-598418 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

GC VOA
Method 8015D: The following samples were diluted because the base dilution for methanol preserved soil analysis is 1:50: MW-24 45' (400-227833-1) and MW-25 30' (400-227833-2).

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

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

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

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

Lab Admin
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

Job ID: 400-227833-1

Client Sample ID: MW-24 45' Lab Sample ID: 400-227833-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.013		0.010		mg/Kg	1	☼	8260C	Total/NA

Client Sample ID: MW-25 30' Lab Sample ID: 400-227833-2

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

Job ID: 400-227833-1

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-227833-1	MW-24 45'	Solid	10/19/22 12:46	10/26/22 09:12
400-227833-2	MW-25 30'	Solid	10/18/22 10:19	10/26/22 09:12

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

Client Sample ID: MW-24 45'

Date Collected: 10/19/22 12:46
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227833-1

Matrix: Solid
Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg	☼	10/30/22 09:23	10/30/22 17:30	1
Toluene	<0.0050		0.0050		mg/Kg	☼	10/30/22 09:23	10/30/22 17:30	1
Ethylbenzene	<0.0050		0.0050		mg/Kg	☼	10/30/22 09:23	10/30/22 17:30	1
Xylenes, Total	**0.013**		0.010		mg/Kg	☼	10/30/22 09:23	10/30/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*	*10/30/22 09:23*	*10/30/22 17:30*	*1*
Dibromofluoromethane	*91*		*77 - 127*	*10/30/22 09:23*	*10/30/22 17:30*	*1*
Toluene-d8 (Surr)	*105*		*76 - 127*	*10/30/22 09:23*	*10/30/22 17:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<5.8		5.8		mg/Kg	☼	10/31/22 08:54	11/01/22 00:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*65 - 125*	*10/31/22 08:54*	*11/01/22 00:07*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.3		5.3		mg/Kg	☼	10/28/22 13:42	11/01/22 00:13	1
Oil Range Organics (ORO)	<5.3		5.3		mg/Kg	☼	10/28/22 13:42	11/01/22 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*27 - 150*	*10/28/22 13:42*	*11/01/22 00:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<22		22		mg/Kg	☼		11/02/22 07:47	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

Client Sample ID: MW-25 30'

Date Collected: 10/18/22 10:19
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227833-2

Matrix: Solid
Percent Solids: 97.3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 17:55	1
Toluene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 17:55	1
Ethylbenzene	<0.0056		0.0056		mg/Kg	☼	10/30/22 09:23	10/30/22 17:55	1
Xylenes, Total	<0.011		0.011		mg/Kg	☼	10/30/22 09:23	10/30/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*	*10/30/22 09:23*	*10/30/22 17:55*	*1*
Dibromofluoromethane	*90*		*77 - 127*	*10/30/22 09:23*	*10/30/22 17:55*	*1*
Toluene-d8 (Surr)	*103*		*76 - 127*	*10/30/22 09:23*	*10/30/22 17:55*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<5.2		5.2		mg/Kg	☼	10/31/22 08:54	11/01/22 00:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*89*		*65 - 125*	*10/31/22 08:54*	*11/01/22 00:38*	*50*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.0		5.0		mg/Kg	☼	10/28/22 13:48	10/31/22 23:57	1
Oil Range Organics (ORO)	<5.0		5.0		mg/Kg	☼	10/28/22 13:48	10/31/22 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*27 - 150*	*10/28/22 13:48*	*10/31/22 23:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20		mg/Kg	☼		11/02/22 08:55	1

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

Client Sample ID: MW-24 45'
Date Collected: 10/19/22 12:46
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227833-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-24 45'
Date Collected: 10/19/22 12:46
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227833-1
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.43 g	5.00 g	598435	10/30/22 09:23	BEP	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	598418	10/30/22 17:30	BEP	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	5035			5.08 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015D		50	5 mL	5 mL	598661	11/01/22 00:07	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.40 g	1 mL	598308	10/28/22 13:42	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	598496	11/01/22 00:13	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.484 g	50 mL	598619	10/31/22 16:04	JAS	EET PEN
Soluble	Analysis	300.0		1	10 mL	10 mL	598770	11/02/22 07:47	JAS	EET PEN
	Instrument ID: Stitch									

Client Sample ID: MW-25 30'
Date Collected: 10/18/22 10:19
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227833-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			598189	10/28/22 10:39	TMP	EET PEN
	Instrument ID: NOEQUIP									

Client Sample ID: MW-25 30'
Date Collected: 10/18/22 10:19
Date Received: 10/26/22 09:12

Lab Sample ID: 400-227833-2
Matrix: Solid
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.62 g	5.00 g	598435	10/30/22 09:23	BEP	EET PEN
Total/NA	Analysis	8260C		1	5 mL	5 mL	598418	10/30/22 17:55	BEP	EET PEN
	Instrument ID: Argo									
Total/NA	Prep	5035			5.05 g	5.00 g	598657	10/31/22 08:54	SAB	EET PEN
Total/NA	Analysis	8015D		50	5 mL	5 mL	598661	11/01/22 00:38	SAB	EET PEN
	Instrument ID: CH_JOAN									
Total/NA	Prep	3546			15.29 g	1 mL	598308	10/28/22 13:48	LH	EET PEN
Total/NA	Analysis	8015D		1	1 mL	1 mL	598496	10/31/22 23:57	RS	EET PEN
	Instrument ID: Eva									
Soluble	Leach	DI Leach			2.516 g	50 mL	598619	10/31/22 16:04	JAS	EET PEN
Soluble	Analysis	300.0		1	10 mL	10 mL	598770	11/02/22 08:55	JAS	EET PEN
	Instrument ID: Stitch									

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

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

Job ID: 400-227833-1

GC/MS VOA

Analysis Batch: 598418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Total/NA	Solid	8260C	598435
400-227833-2	MW-25 30'	Total/NA	Solid	8260C	598435
MB 400-598435/2-A	Method Blank	Total/NA	Solid	8260C	598435
LCS 400-598435/1-A	Lab Control Sample	Total/NA	Solid	8260C	598435
400-227894-B-5-B MS	Matrix Spike	Total/NA	Solid	8260C	598435
400-227894-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260C	598435

Prep Batch: 598435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Total/NA	Solid	5035	
400-227833-2	MW-25 30'	Total/NA	Solid	5035	
MB 400-598435/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-598435/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227894-B-5-B MS	Matrix Spike	Total/NA	Solid	5035	
400-227894-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC VOA

Prep Batch: 598657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Total/NA	Solid	5035	
400-227833-2	MW-25 30'	Total/NA	Solid	5035	
MB 400-598657/2-A	Method Blank	Total/NA	Solid	5035	
LCS 400-598657/1-A	Lab Control Sample	Total/NA	Solid	5035	
400-227446-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
400-227446-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 598661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Total/NA	Solid	8015D	598657
400-227833-2	MW-25 30'	Total/NA	Solid	8015D	598657
MB 400-598657/2-A	Method Blank	Total/NA	Solid	8015D	598657
LCS 400-598657/1-A	Lab Control Sample	Total/NA	Solid	8015D	598657
400-227446-A-3-C MS	Matrix Spike	Total/NA	Solid	8015D	598657
400-227446-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015D	598657

GC Semi VOA

Prep Batch: 598308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Total/NA	Solid	3546	
400-227833-2	MW-25 30'	Total/NA	Solid	3546	
MB 400-598308/1-A	Method Blank	Total/NA	Solid	3546	
LCS 400-598308/2-A	Lab Control Sample	Total/NA	Solid	3546	
400-227894-A-5-A MS	Matrix Spike	Total/NA	Solid	3546	
400-227894-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 598496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Total/NA	Solid	8015D	598308
400-227833-2	MW-25 30'	Total/NA	Solid	8015D	598308
MB 400-598308/1-A	Method Blank	Total/NA	Solid	8015D	598308

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

GC Semi VOA (Continued)

Analysis Batch: 598496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-598308/2-A	Lab Control Sample	Total/NA	Solid	8015D	598308
400-227894-A-5-A MS	Matrix Spike	Total/NA	Solid	8015D	598308
400-227894-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015D	598308

HPLC/IC

Leach Batch: 598619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Soluble	Solid	DI Leach	
400-227833-2	MW-25 30'	Soluble	Solid	DI Leach	
MB 400-598619/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 400-598619/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 400-598619/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
400-227833-1 MS	MW-24 45'	Soluble	Solid	DI Leach	
400-227833-1 MSD	MW-24 45'	Soluble	Solid	DI Leach	

Analysis Batch: 598770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Soluble	Solid	300.0	598619
400-227833-2	MW-25 30'	Soluble	Solid	300.0	598619
MB 400-598619/1-A	Method Blank	Soluble	Solid	300.0	598619
LCS 400-598619/2-A	Lab Control Sample	Soluble	Solid	300.0	598619
LCSD 400-598619/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	598619
400-227833-1 MS	MW-24 45'	Soluble	Solid	300.0	598619
400-227833-1 MSD	MW-24 45'	Soluble	Solid	300.0	598619

General Chemistry

Analysis Batch: 598189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-227833-1	MW-24 45'	Total/NA	Solid	Moisture	
400-227833-2	MW-25 30'	Total/NA	Solid	Moisture	
400-227833-1 DU	MW-24 45'	Total/NA	Solid	Moisture	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

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

Lab Sample ID: MB 400-598435/2-A
Matrix: Solid
Analysis Batch: 598418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598435

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Toluene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Ethylbenzene	<0.0050		0.0050		mg/Kg		10/30/22 09:23	10/30/22 11:32	1
Xylenes, Total	<0.010		0.010		mg/Kg		10/30/22 09:23	10/30/22 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*	*10/30/22 09:23*	*10/30/22 11:32*	*1*
Dibromofluoromethane	*95*		*77 - 127*	*10/30/22 09:23*	*10/30/22 11:32*	*1*
Toluene-d8 (Surr)	*105*		*76 - 127*	*10/30/22 09:23*	*10/30/22 11:32*	*1*

Lab Sample ID: LCS 400-598435/1-A
Matrix: Solid
Analysis Batch: 598418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.0458		mg/Kg		92	65 - 130		
Toluene			0.0500	0.0483		mg/Kg		97	70 - 130		
Ethylbenzene			0.0500	0.0489		mg/Kg		98	70 - 130		
Xylenes, Total			0.100	0.0935		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.0500	0.0469		mg/Kg		94	70 - 130		
o-Xylene			0.0500	0.0465		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*67 - 130*
Dibromofluoromethane	*90*		*77 - 127*
Toluene-d8 (Surr)	*104*		*76 - 127*

Lab Sample ID: 400-227894-B-5-B MS
Matrix: Solid
Analysis Batch: 598418

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.0061	F2 F1	0.0592	0.104	F1	mg/Kg	☼	176	38 - 131		
Toluene	<0.0061	F2 F1	0.0592	0.103	F1	mg/Kg	☼	173	42 - 130		
Ethylbenzene	<0.0061	F2 F1	0.0592	0.102	F1	mg/Kg	☼	172	35 - 130		
Xylenes, Total	<0.012	F2 F1	0.118	0.191	F1	mg/Kg	☼	161	35 - 130		
m-Xylene & p-Xylene	<0.0061	F2 F1	0.0592	0.0962	F1	mg/Kg	☼	163	35 - 130		
o-Xylene	<0.0061	F2 F1	0.0592	0.0948	F1	mg/Kg	☼	160	35 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
Dibromofluoromethane	*91*		*77 - 127*
Toluene-d8 (Surr)	*101*		*76 - 127*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

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

Lab Sample ID: 400-227894-B-5-C MSD
Matrix: Solid
Analysis Batch: 598418

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598435

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.0061	F2 F1	0.0600	0.0510	F2	mg/Kg	☼	85	38 - 131	69	36
Toluene	<0.0061	F2 F1	0.0600	0.0516	F2	mg/Kg	☼	86	42 - 130	66	37
Ethylbenzene	<0.0061	F2 F1	0.0600	0.0472	F2	mg/Kg	☼	79	35 - 130	73	46
Xylenes, Total	<0.012	F2 F1	0.120	0.0872	F2	mg/Kg	☼	73	35 - 130	75	39
m-Xylene & p-Xylene	<0.0061	F2 F1	0.0600	0.0436	F2	mg/Kg	☼	73	35 - 130	75	42
o-Xylene	<0.0061	F2 F1	0.0600	0.0436	F2	mg/Kg	☼	73	35 - 130	74	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
Dibromofluoromethane	*88*		*77 - 127*
Toluene-d8 (Surr)	*105*		*76 - 127*

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

Lab Sample ID: MB 400-598657/2-A
Matrix: Solid
Analysis Batch: 598661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 598657

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) C6--C10	<0.10		0.10		mg/Kg		10/31/22 08:54	10/31/22 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*91*		*65 - 125*	*10/31/22 08:54*	*10/31/22 09:57*	*1*

Lab Sample ID: LCS 400-598657/1-A
Matrix: Solid
Analysis Batch: 598661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 598657

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO) C6--C10			1.00	0.980		mg/Kg		98	62 - 141		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*107*		*65 - 125*

Lab Sample ID: 400-227446-A-3-C MS
Matrix: Solid
Analysis Batch: 598661

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 598657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO) C6--C10	<0.11		1.21	0.970		mg/Kg	☼	80	10 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*104*		*65 - 125*

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

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

Lab Sample ID: 400-227446-A-3-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598661 — **Prep Batch: 598657**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) C6--C10	<0.11		1.18	0.932		mg/Kg	☼	79	10 - 150	4	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*105*		*65 - 125*

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

Lab Sample ID: MB 400-598308/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598496 — **Prep Batch: 598308**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.0		5.0		mg/Kg		10/28/22 13:42	10/31/22 18:57	1
Oil Range Organics (ORO)	<5.0		5.0		mg/Kg		10/28/22 13:42	10/31/22 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*27 - 150*	*10/28/22 13:42*	*10/31/22 18:57*	*1*

Lab Sample ID: LCS 400-598308/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598496 — **Prep Batch: 598308**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)			270	226		mg/Kg		84	38 - 116		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*71*		*27 - 150*

Lab Sample ID: 400-227894-A-5-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598496 — **Prep Batch: 598308**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (DRO)	<5.5		306	246		mg/Kg	☼	80	62 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*70*		*27 - 150*

Lab Sample ID: 400-227894-A-5-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 598496 — **Prep Batch: 598308**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	<5.5		306	302		mg/Kg	☼	99	62 - 150	20	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Johnston Federal #4

Job ID: 400-227833-1

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

Lab Sample ID: 400-227894-A-5-B MSD
Matrix: Solid
Analysis Batch: 598496

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 598308

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	89		27 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-598619/1-A
Matrix: Solid
Analysis Batch: 598770

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<20		20		mg/Kg			11/02/22 06:39	1

Lab Sample ID: LCS 400-598619/2-A
Matrix: Solid
Analysis Batch: 598770

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			99.9	102		mg/Kg		103	80 - 120		

Lab Sample ID: LCSD 400-598619/3-A
Matrix: Solid
Analysis Batch: 598770

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	104		mg/Kg		104	80 - 120	1	15

Lab Sample ID: 400-227833-1 MS
Matrix: Solid
Analysis Batch: 598770

Client Sample ID: MW-24 45'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<22		110	119		mg/Kg	☼	108	80 - 120		

Lab Sample ID: 400-227833-1 MSD
Matrix: Solid
Analysis Batch: 598770

Client Sample ID: MW-24 45'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<22		109	117		mg/Kg	☼	108	80 - 120	1	15

Released to Imaging: 5/17/2023 1:06:34 PM
Received by OCD: 3/28/2023 8:20:06 PM

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Scott Stanley	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-114343-34027.1
Client Contact: ~~Scott Hansen~~ Steve Varsa	Phone: 515-664-4602	E-Mail: Cheyenne.Whitmire@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Stantec Consulting Services Inc	PWSID:			Job #: 193709202
Address: 11311 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): Standard			
State, Zip: IA, 50322-7904	Compliance Project: Δ Yes Δ No			
Phone: 515-253-0830	PO #: See Project Notes			
Email: steve.varsa@stantec.com ~~scott.hansen@stantec.com~~	WO #:			
Project Name: Johnston Fed 4 Soil	Project #: 40005479			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO - DRO, ORO	300_ORGFM_28D - Chloride	8015B_GRO, 8260B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
MW-24 45'	10/19/22	1246	G	Solid			X	X	X		
MW-25 30'	10/18/22	1019	G	Solid			X	X	X		
				Solid							
				Solid							

400-227833 COC

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Scott Stanley	10/24/22	Stantec	FEDEX	10/25/22 1045	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10-26-22 912	Company

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

Cooler Temperature(s) °C and Other Remarks: 2.5°C IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-227833-1

Login Number: 227833 **List Source: Eurofins Pensacola**
List Number: 1
Creator: Whitley, Adrian

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-227833-1
Project/Site: Johnston Federal #4

Laboratory: Eurofins Pensacola

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

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

Eurofins Pensacola

Job Notes

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

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Authorization

Generated
11/16/2022 9:53:26 AM

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

CONDITIONS

Action 201686

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 201686
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of the 2022 ANNUAL GROUNDWATER REPORT: Content satisfactory 1. Continue to follow "Planned Future Activities" as noted within this report. 2. Submit next annual groundwater report to OCD no later than April 1, 2024.	5/17/2023