# 2020 ANNUAL GROUNDWATER REPORT

**Canada Mesa #2**
**Incident Number: nAUTOfAB000065**
**NMOCD Case#: 3RP-155-0**
**Meter Code: 87640**
**T24N, R6W, Sec 24, Unit I**

## SITE DETAILS

**Site Location:** Latitude: 36.296081 N, Longitude: -107.414109 W
**Land Type:** Federal
**Former Operator:** Merrion Oil & Gas (well P&A'd)

## SITE BACKGROUND

Environmental Remediation activities at Canada Mesa #2 (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered During Pit Closure Activities*" (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's (EPCGP's) program methods. Formerly, the Site was operated by Merrion Oil & Gas Company and is no longer active.

Canada Mesa #2 is located on Federal land. An initial site assessment was completed in July 1994, and an excavation to approximately 12 feet below ground surface (bgs) was completed in August 1994. Various site investigations have occurred since 1994. Monitoring wells were installed in 1995 (MW-1) and 2000 (MW-2 and MW-3). Monitoring wells MW-2 and MW-3 were abandoned in May 2016, ahead of Merrion Oil and Gas Company's reclamation activities. Monitoring wells MW2R, MW-3R, and MW-4 through MW-7 were installed in 2018. Monitoring wells MW-8 and MW-9 were installed in 2019. 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. Historically, free product has periodically been encountered and recovered from MW-1, MW-4, and MW-9. Mobile dual-phase extraction (MDPE) events to enhance free product recovery from MW-1 and MW-4 were conducted in 2018. Groundwater sampling is being conducted on a semi-annual basis.

## GROUNDWATER SAMPLING ACTIVITIES

Pursuant to the Remediation Plan, Stantec provided field work notifications via electronic mail (email) to NMOCD on May 5, 2020, and November 5, 2020, prior to initiating groundwater sampling activities at the Site. Copies of the 2020 NMOCD notifications are provided in Appendix A. On May 11, 2020 and November 12, 2020 water levels were gauged at MW-1, MW-2R, MW-3R, and MW-4 through MW-9. Groundwater samples were collected using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event using a suspension tether and stainless-steel weights. The HydraSleeves were positioned to collect a sample from the screened interval by setting the bottom of the sleeve approximately 0.5 foot above the bottom of the screened interval.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to Eurofins-TestAmerica where they were analyzed for BTEX using EPA Method 8260. One laboratory-supplied trip blank and one blind field duplicate were also collected during each groundwater sampling event.

The unused sample water was placed in a waste container and transported to Basin Disposal, Inc. in Bloomfield, New Mexico (Basin) for disposal. Waste disposal documentation is included as Appendix B.

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## FREE PRODUCT RECOVERY

As documented in EPCGP's letter dated January 5, 2021, EPCGP initiated quarterly free product recovery activities beginning in the second calendar quarter of 2020. Documentation of NMOCD notification of site activities is provided in Appendix A. Free product was observed in monitoring wells MW-1 and MW-4 and MW-9 during the May and November groundwater sampling site visits, and on August 19, 2020. Trace product was observed during the May event in MW-2R.

In May, free product was removed from MW-1, MW-2R, MW-4 and MW-9 (0.24, <0.01, 0.21, and 2.5 gallons, respectively). In August, free product was recovered from MW-2R, MW-4, and MW-9 (<0.01, 0.42, and 0.17 gallons, respectively). In November 2020, free product was recovered from MW-1, MW-4, and MW-9 (0.03, 0.28, and 1.4 gallons, respectively). Free product was recovered by hand-bailing. During the groundwater sampling site visits, the recovered free product was disposed of with wastewater generated during the monitoring well sampling activities. Recovered free product from the August site visit was also transported for disposal at Basin (Appendix B).

## SUMMARY TABLES

Historic analytical and water level data are summarized in Table 1 and Table 2. Free product recovery data is summarized on Table 3.

## SITE MAPS

Groundwater analytical maps (Figures 3 and 5) and groundwater elevation contour maps (Figures 4 and 6) summarize results of the 2020 groundwater sampling and gauging events.

## ANALYTICAL LAB REPORTS

The groundwater analytical lab reports are included as Appendix C.

## GROUNDWATER RESULTS

- The groundwater elevations indicate the flow direction at the Site was generally to the east during 2020 (see Figures 4 and 6).

- Free product was observed in MW-1, MW-2R, MW-4, and MW-9 during the May 2020 groundwater event; therefore, no groundwater samples were collected at these locations. Free product was observed in MW-1, MW-4, and MW-9 during the November 2020 groundwater event; therefore, no groundwater samples were collected at these locations. MW-2R was also not sampled in November 2020.

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- The groundwater sample collected in both 2020 events from MW-8 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [µg/L]) for benzene in groundwater. Benzene was not detected or detected below the NMWQCC standard in the remaining groundwater samples collected from site monitoring wells in 2020.

- Toluene was not detected or detected below the NMWQCC standard in the groundwater samples collected from site monitoring wells in 2020.

- The groundwater sample collected in November 2020 from MW-8 exceeded the NMWQCC standard (750 µg/L) for ethylbenzene in groundwater. Ethylbenzene was not detected or detected below the NMWQCC standard in the remaining groundwater samples collected from site monitoring wells in 2020.

- The groundwater sample collected in both 2020 events from MW-8 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. Total xylenes were not detected or detected below the NMWQCC standard in the remaining groundwater samples collected from site monitoring wells in 2020.

- A field duplicate was collected from monitoring well MW-8 in during both 2020 sampling events. There were no significant differences between the primary and duplicate samples.

Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2020 groundwater monitoring events.

## PLANNED FUTURE ACTIVITIES

No additional assessment is planned at this time. Shallow soils with hydrocarbon concentrations exceeding applicable NMOCD soil closure criteria are present at MW-3R, SB-4, and SB-5, each located near a former non-EPCGP pit. Additional assessment of the subject non-EPCGP pit should be conducted by others to address hydrocarbons detected in this area.

Groundwater monitoring events will be conducted on a semi-annual basis in 2021. Groundwater samples will be collected from monitoring wells not containing free product and analyzed for BTEX constituents using EPA Method 8260. A field duplicate and trip blank will also be collected during each groundwater sampling event.

Quarterly site visits will continue at the site in 2021 to facilitate removal of measurable free product where it is present. Pursuant to the January 5, 2021 letter from EPCGP, mobile DPE activities are to be completed before October 2021 to more aggressively remove free product. Follow-up correspondence will be provided to NMOCD once the date of this work is scheduled.

The activities completed in 2021 and their results will be summarized in the 2021 Annual Report, to be submitted in early 2022.

# TABLES

# TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

| Canada Mesa #2 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-1 | 11/04/96 | 5520 | 8880 | 469 | 3920 |
| MW-1 | 02/05/97 | 3450 | 5200 | 214 | 1770 |
| MW-1 | 05/07/97 | 4650 | 8440 | 317 | 2580 |
| MW-1 | 01/09/00 | NS | NS | NS | NS |
| MW-1 | 01/26/00 | NS | NS | NS | NS |
| MW-1 | 02/15/00 | NS | NS | NS | NS |
| MW-1 | 10/06/00 | NS | NS | NS | NS |
| MW-1 | 11/14/00 | NS | NS | NS | NS |
| MW-1 | 01/03/01 | NS | NS | NS | NS |
| MW-1 | 01/15/01 | NS | NS | NS | NS |
| MW-1 | 01/22/01 | NS | NS | NS | NS |
| MW-1 | 01/30/01 | NS | NS | NS | NS |
| MW-1 | 02/13/01 | NS | NS | NS | NS |
| MW-1 | 02/20/01 | NS | NS | NS | NS |
| MW-1 | 02/28/01 | NS | NS | NS | NS |
| MW-1 | 06/04/01 | NS | NS | NS | NS |
| MW-1 | 07/03/01 | NS | NS | NS | NS |
| MW-1 | 08/06/01 | NS | NS | NS | NS |
| MW-1 | 08/20/01 | NS | NS | NS | NS |
| MW-1 | 08/31/01 | NS | NS | NS | NS |
| MW-1 | 09/14/01 | NS | NS | NS | NS |
| MW-1 | 09/26/01 | NS | NS | NS | NS |
| MW-1 | 10/02/01 | NS | NS | NS | NS |
| MW-1 | 10/10/01 | NS | NS | NS | NS |
| MW-1 | 12/05/01 | NS | NS | NS | NS |
| MW-1 | 12/14/01 | NS | NS | NS | NS |
| MW-1 | 12/21/01 | NS | NS | NS | NS |
| MW-1 | 12/28/01 | NS | NS | NS | NS |
| MW-1 | 01/02/02 | NS | NS | NS | NS |
| MW-1 | 01/07/02 | NS | NS | NS | NS |
| MW-1 | 01/23/02 | NS | NS | NS | NS |
| MW-1 | 01/30/02 | NS | NS | NS | NS |
| MW-1 | 02/07/02 | NS | NS | NS | NS |
| MW-1 | 02/14/02 | NS | NS | NS | NS |
| MW-1 | 02/20/02 | NS | NS | NS | NS |
| MW-1 | 02/26/02 | NS | NS | NS | NS |
| MW-1 | 03/07/02 | NS | NS | NS | NS |
| MW-1 | 03/12/02 | NS | NS | NS | NS |
| MW-1 | 03/28/02 | NS | NS | NS | NS |
| MW-1 | 04/03/02 | NS | NS | NS | NS |
| MW-1 | 04/25/02 | NS | NS | NS | NS |

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| Canada Mesa #2 | | | | | |
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| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-1 | 05/21/02 | NS | NS | NS | NS |
| MW-1 | 06/10/02 | NS | NS | NS | NS |
| MW-1 | 09/23/02 | NS | NS | NS | NS |
| MW-1 | 03/25/03 | NS | NS | NS | NS |
| MW-1 | 06/22/03 | NS | NS | NS | NS |
| MW-1 | 09/15/03 | NS | NS | NS | NS |
| MW-1 | 12/15/03 | NS | NS | NS | NS |
| MW-1 | 03/17/04 | NS | NS | NS | NS |
| MW-1 | 03/22/04 | NS | NS | NS | NS |
| MW-1 | 06/03/04 | NS | NS | NS | NS |
| MW-1 | 06/04/04 | NS | NS | NS | NS |
| MW-1 | 09/13/04 | NS | NS | NS | NS |
| MW-1 | 09/14/04 | NS | NS | NS | NS |
| MW-1 | 12/15/04 | NS | NS | NS | NS |
| MW-1 | 03/22/05 | NS | NS | NS | NS |
| MW-1 | 06/24/05 | NS | NS | NS | NS |
| MW-1 | 09/14/05 | NS | NS | NS | NS |
| MW-1 | 12/14/05 | NS | NS | NS | NS |
| MW-1 | 03/28/06 | NS | NS | NS | NS |
| MW-1 | 06/07/06 | NS | NS | NS | NS |
| MW-1 | 09/29/06 | NS | NS | NS | NS |
| MW-1 | 12/26/06 | NS | NS | NS | NS |
| MW-1 | 03/26/07 | NS | NS | NS | NS |
| MW-1 | 06/13/07 | NS | NS | NS | NS |
| MW-1 | 09/28/07 | NS | NS | NS | NS |
| MW-1 | 12/18/07 | NS | NS | NS | NS |
| MW-1 | 03/05/08 | NS | NS | NS | NS |
| MW-1 | 06/16/08 | NS | NS | NS | NS |
| MW-1 | 09/10/08 | NS | NS | NS | NS |
| MW-1 | 12/10/08 | NS | NS | NS | NS |
| MW-1 | 03/02/09 | NS | NS | NS | NS |
| MW-1 | 06/10/09 | NS | NS | NS | NS |
| MW-1 | 08/25/09 | NS | NS | NS | NS |
| MW-1 | 11/03/09 | 1970 | 6020 | 359 | 6110 |
| MW-1 | 02/16/10 | NS | NS | NS | NS |
| MW-1 | 06/02/10 | NS | NS | NS | NS |
| MW-1 | 09/27/10 | NS | NS | NS | NS |
| MW-1 | 11/08/10 | 571 | 9070 | 1370 | 27200 |
| MW-1 | 02/01/11 | NS | NS | NS | NS |
| MW-1 | 05/02/11 | NS | NS | NS | NS |
| MW-1 | 09/23/11 | NS | NS | NS | NS |

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| Canada Mesa #2 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-1 | 11/10/11 | 1340 | 9510 | 1260 | 20800 |
| MW-1 | 02/22/12 | NS | NS | NS | NS |
| MW-1 | 05/15/12 | NS | NS | NS | NS |
| MW-1 | 06/05/13 | 720 | 2200 | 92 | 4000 |
| MW-1 | 09/10/13 | 570 | 1700 | 63 | 2900 |
| MW-1 | 12/10/13 | 190 | 740 | 40 | 1000 |
| MW-1 | 04/04/14 | NS | NS | NS | NS |
| MW-1 | 10/22/14 | NS | NS | NS | NS |
| MW-1 | 05/28/15 | NS | NS | NS | NS |
| MW-1 | 11/21/15 | NS | NS | NS | NS |
| MW-1 | 04/14/16 | NS | NS | NS | NS |
| MW-1 | 12/14/16 | NS | NS | NS | NS |
| MW-1 | 06/07/17 | 1400 | 5900 | 470 | 21000 |
| MW-1 | 11/14/17 | NS | NS | NS | NS |
| MW-1 | 05/15/18 | NS | NS | NS | NS |
| MW-1 | 10/27/18 | NS | NS | NS | NS |
| MW-1 | 05/21/19 | NS | NS | NS | NS |
| MW-1 | 11/10/19 | NS | NS | NS | NS |
| MW-1 | 05/11/20 | NS | NS | NS | NS |
| MW-1 | 11/12/20 | NS | NS | NS | NS |
| | | | | | |
| MW-2 | 11/16/00 | 3200 | 330 | 1200 | 1100 |
| MW-2 | 06/04/01 | NS | NS | NS | NS |
| MW-2 | 07/03/01 | NS | NS | NS | NS |
| MW-2 | 08/06/01 | NS | NS | NS | NS |
| MW-2 | 08/31/01 | NS | NS | NS | NS |
| MW-2 | 09/14/01 | NS | NS | NS | NS |
| MW-2 | 03/19/02 | 22 | <5 | 150 | 14 |
| MW-2 | 12/24/02 | 12.1 | 2.1 | 129 | 16.4 |
| MW-2 | 03/25/03 | NS | NS | NS | NS |
| MW-2 | 06/22/03 | NS | NS | NS | NS |
| MW-2 | 09/15/03 | NS | NS | NS | NS |
| MW-2 | 12/15/03 | 10 | 11.7 | 55.3 | 29.7 |
| MW-2 | 03/22/04 | NS | NS | NS | NS |
| MW-2 | 06/04/04 | NS | NS | NS | NS |
| MW-2 | 09/14/04 | NS | NS | NS | NS |
| MW-2 | 12/15/04 | 6.3 | 3.8 | 8 | 5.9 |
| MW-2 | 03/22/05 | NS | NS | NS | NS |
| MW-2 | 06/24/05 | NS | NS | NS | NS |
| MW-2 | 09/14/05 | NS | NS | NS | NS |
| MW-2 | 12/14/05 | NS | NS | NS | NS |

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| Canada Mesa #2 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-2 | 12/15/05 | 12.1 | 30.9 | 5.6 | 61.9 |
| MW-2 | 03/28/06 | NS | NS | NS | NS |
| MW-2 | 06/07/06 | NS | NS | NS | NS |
| MW-2 | 09/29/06 | NS | NS | NS | NS |
| MW-2 | 12/26/06 | 5.3 | 5 | 1.8 | 7.1 |
| MW-2 | 03/26/07 | NS | NS | NS | NS |
| MW-2 | 06/13/07 | NS | NS | NS | NS |
| MW-2 | 09/28/07 | NS | NS | NS | NS |
| MW-2 | 12/18/07 | <2 | <2 | <2 | <6 |
| MW-2 | 03/05/08 | NS | NS | NS | NS |
| MW-2 | 06/16/08 | NS | NS | NS | NS |
| MW-2 | 09/10/08 | NS | NS | NS | NS |
| MW-2 | 12/10/08 | 1.2 | 2.7 | 1.7 | 4.9 |
| MW-2 | 03/02/09 | NS | NS | NS | NS |
| MW-2 | 06/10/09 | NS | NS | NS | NS |
| MW-2 | 08/25/09 | NS | NS | NS | NS |
| MW-2 | 11/03/09 | 0.68 J | <1 | <1 | 1.5 J |
| MW-2 | 02/16/10 | NS | NS | NS | NS |
| MW-2 | 06/02/10 | NS | NS | NS | NS |
| MW-2 | 09/27/10 | NS | NS | NS | NS |
| MW-2 | 11/08/10 | <2 | <2 | <2 | <6 |
| MW-2 | 02/01/11 | NS | NS | NS | NS |
| MW-2 | 09/23/11 | NS | NS | NS | NS |
| MW-2 | 11/10/11 | 1.1 | <1 | <1 | 1.4 J |
| MW-2 | 02/22/12 | NS | NS | NS | NS |
| MW-2 | 05/15/12 | NS | NS | NS | NS |
| MW-2 | 06/05/13 | <0.140 | <0.30 | <0.20 | <0.23 |
| MW-2 | 09/10/13 | 0.22 | <0.30 | <0.020 | <0.23 |
| MW-2 | 12/10/13 | 0.24 J | <0.38 | <0.20 | <0.65 |
| MW-2 | 04/04/14 | 0.46 J | <0.38 | <0.20 | <0.65 |
| MW-2 | 10/22/14 | <0.38 | <0.70 | <0.50 | <1.6 |
| MW-2 | 05/28/15 | 0.57 J | <5.0 | <1.0 | <5.0 |
| MW-2 | 11/21/15 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-2 | 04/14/16 | NS | NS | NS | NS |
| MW-2 abandoned on May 22, 2016 | | | | | |
| | | | | | |
| MW-2R | 05/15/18 | <10 | <10 | 300 | 1800 |
| MW-2R | 10/27/18 | <1.0 | <1.0 | 7.8 | 59 |
| MW-2R | 05/21/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-2R | 11/10/19 | <1.0 | <1.0 | <1.0 | <10 |
| DUP-1(MW-2R)* | 11/10/19 | <1.0 | <1.0 | <1.0 | 18 |

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| Canada Mesa #2 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-2R | 05/11/20 | NS | NS | NS | NS |
| MW-2R | 11/12/20 | NS | NS | NS | NS |
| | | | | | |
| MW-3 | 11/16/00 | 880 | 1300 | 420 | 3700 |
| MW-3 | 06/04/01 | NS | NS | NS | NS |
| MW-3 | 07/03/01 | NS | NS | NS | NS |
| MW-3 | 08/06/01 | NS | NS | NS | NS |
| MW-3 | 08/31/01 | NS | NS | NS | NS |
| MW-3 | 09/14/01 | NS | NS | NS | NS |
| MW-3 | 03/19/02 | 1100 | 29 | 360 | 3700 |
| MW-3 | 06/10/02 | NS | NS | NS | NS |
| MW-3 | 09/23/02 | NS | NS | NS | NS |
| MW-3 | 12/24/02 | 1430 | 95 | 483 | 2359 |
| MW-3 | 03/25/03 | NS | NS | NS | NS |
| MW-3 | 06/22/03 | NS | NS | NS | NS |
| MW-3 | 09/15/03 | NS | NS | NS | NS |
| MW-3 | 12/15/03 | 503 | 79.7 | 148 | 891 |
| MW-3 | 03/22/04 | NS | NS | NS | NS |
| MW-3 | 06/04/04 | NS | NS | NS | NS |
| MW-3 | 09/14/04 | NS | NS | NS | NS |
| MW-3 | 12/15/04 | 410 | 54.9 | 88.7 | 420 |
| MW-3 | 03/22/05 | NS | NS | NS | NS |
| MW-3 | 06/24/05 | NS | NS | NS | NS |
| MW-3 | 09/14/05 | NS | NS | NS | NS |
| MW-3 | 12/15/05 | 482 | 32.7 | 74.1 | 399 |
| MW-3 | 03/28/06 | NS | NS | NS | NS |
| MW-3 | 06/07/06 | NS | NS | NS | NS |
| MW-3 | 09/29/06 | NS | NS | NS | NS |
| MW-3 | 12/26/06 | 679 | 78.9 | 106 | 565 |
| MW-3 | 03/26/07 | NS | NS | NS | NS |
| MW-3 | 06/13/07 | NS | NS | NS | NS |
| MW-3 | 09/28/07 | NS | NS | NS | NS |
| MW-3 | 12/18/07 | 412 | 39.4 | 31.5 | 207 |
| MW-3 | 03/05/08 | NS | NS | NS | NS |
| MW-3 | 06/16/08 | NS | NS | NS | NS |
| MW-3 | 09/10/08 | NS | NS | NS | NS |
| MW-3 | 12/10/08 | 653 | 63.2 | 55.5 | 253 |
| MW-3 | 03/02/09 | NS | NS | NS | NS |
| MW-3 | 06/10/09 | NS | NS | NS | NS |
| MW-3 | 08/25/09 | NS | NS | NS | NS |
| MW-3 | 11/03/09 | 715 | 220 | 80 | 570 |

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|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| MW-3 | 02/16/10 | NS | NS | NS | NS |
| MW-3 | 06/02/10 | NS | NS | NS | NS |
| MW-3 | 09/27/10 | NS | NS | NS | NS |
| MW-3 | 11/08/10 | 426 | 15 | 22.1 | 85.1 |
| MW-3 | 02/01/11 | NS | NS | NS | NS |
| MW-3 | 09/23/11 | NS | NS | NS | NS |
| MW-3 | 11/10/11 | 167 | 5.3 | 16.5 | 54.3 |
| MW-3 | 02/22/12 | NS | NS | NS | NS |
| MW-3 | 05/15/12 | NS | NS | NS | NS |
| MW-3 | 06/05/13 | 340 | 1.3 | 31 | 47 |
| MW-3 | 09/10/13 | 340 | 0.9 | 12 | 4.2 |
| MW-3 | 12/10/13 | 220 | 13 | 6.3 | 2.6 |
| MW-3 | 04/04/14 | 320 | 5.4 J | <0.80 | <2.6 |
| MW-3 | 10/22/14 | 240 | <0.70 | 0.52 J | <1.6 |
| MW-3 | 05/28/15 | 390 | <25 | <5.0 | 26 |
| MW-3 | 11/21/15 | 380 | 1.5 | 1.3 | 8.8 |
| MW-3 | 04/14/16 | 370 | <25 | <5.0 | <25 |
| MW-3 abandoned on May 22, 2016 | | | | | |
| | | | | | |
| MW-3R | 05/15/18 | 3.6 | 1.4 | 2.3 | 16 |
| DP-01(MW-3R)* | 05/15/18 | 3.6 | 1.2 | 1.9 | 12 |
| MW-3R | 10/27/18 | <1.0 | <1.0 | <1.0 | <10 |
| MW-3R | 05/21/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-3R | 11/10/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-3R | 05/11/20 | <1.0 | <1.0 | <1.0 | <10 |
| MW-3R | 11/12/20 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-4 | 05/15/18 | NS | NS | NS | NS |
| MW-4 | 10/27/18 | 25 | 2500 | 740 | 12000 |
| MW-4 | 05/21/19 | NS | NS | NS | NS |
| MW-4 | 11/10/19 | NS | NS | NS | NS |
| MW-4 | 05/11/20 | NS | NS | NS | NS |
| MW-4 | 11/12/20 | NS | NS | NS | NS |
| | | | | | |
| MW-5 | 05/15/18 | <1.0 | <1.0 | <1.0 | <10 |
| MW-5 | 10/27/18 | <1.0 | <1.0 | 1.9 | <10 |
| MW-5 | 05/21/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-5 | 11/10/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-5 | 05/11/20 | <1.0 | <1.0 | <1.0 | <10 |
| MW-5 | 11/12/20 | <1.0 | <1.0 | <1.0 | <10 |
| | | | | | |
| MW-6 | 05/15/18 | <2.0 | 26 | 7.1 | 450 |
| MW-6 | 10/27/18 | <1.0 | <1.0 | <1.0 | <10 |

# TABLE 1 - GROUNDWATER ANALYTICAL RESULTS

| Canada Mesa #2 | | | | | |
|---|---|---|---|---|---|
| Location | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
| NMWQCC Standards: | | 10 | 750 | 750 | 620 |
| DUP-01(MW-6)* | 10/27/18 | <1.0 | <1.0 | <1.0 | <10 |
| MW-6 | 05/21/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-6 | 11/10/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-6 | 05/11/20 | NS | NS | NS | NS |
| MW-6 | 11/12/20 | NS | NS | NS | NS |
| | | | | | |
| MW-7 | 05/15/18 | <1.0 | <1.0 | <1.0 | <10 |
| MW-7 | 10/27/18 | <1.0 | <1.0 | <1.0 | <10 |
| MW-7 | 05/21/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-7 | 11/10/19 | <1.0 | <1.0 | <1.0 | <10 |
| MW-7 | 05/11/20 | NS | NS | NS | NS |
| MW-7 | 11/12/20 | NS | NS | NS | NS |
| | | | | | |
| MW-8 | 11/10/19 | 110 | <20 | 910 | 8100 |
| MW-8 | 05/11/20 | 100 | <20 | 630 | 3900 |
| DUP-01 (MW-8)* | 05/11/20 | 60 | <20 | 440 | 2400 |
| MW-8 | 11/12/20 | 30 | <20 | 1500 | 13000 |
| DUP-01 (MW-8)* | 11/12/20 | <20 | <20 | 1200 | 9800 |
| | | | | | |
| MW-9 | 11/10/19 | NS | NS | NS | NS |
| MW-9 | 05/11/20 | NS | NS | NS | NS |
| MW-9 | 11/12/20 | NS | NS | NS | NS |

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 2- GROUNDWATER ELEVATION RESULTS

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-1 | 11/04/96 | 6503.37 | 33.67 | 34.42 | 0.75 | 6469.51 |
| MW-1 | 02/05/97 | 6503.37 | 33.64 | 34.35 | 0.71 | 6469.55 |
| MW-1 | 05/07/97 | 6503.37 | 33.61 | 34.24 | 0.63 | 6469.60 |
| MW-1 | 01/09/00 | 6503.37 | 33.79 | 33.93 | 0.14 | 6469.54 |
| MW-1 | 01/26/00 | 6503.37 | 35.03 | 35.22 | 0.19 | 6468.29 |
| MW-1 | 02/15/00 | 6503.37 | 34.93 | 35.11 | 0.18 | 6468.39 |
| MW-1 | 10/06/00 | 6503.37 | 33.82 | 34.11 | 0.29 | 6469.47 |
| MW-1 | 11/14/00 | 6503.37 | 33.81 | 33.98 | 0.17 | 6469.51 |
| MW-1 | 01/03/01 | 6503.37 | 33.83 | 33.96 | 0.13 | 6469.50 |
| MW-1 | 01/15/01 | 6503.37 | 33.78 | 33.93 | 0.15 | 6469.55 |
| MW-1 | 01/22/01 | 6503.37 | NR | 33.81 | | 6469.56 |
| MW-1 | 01/30/01 | 6503.37 | 33.82 | 33.83 | 0.01 | 6469.54 |
| MW-1 | 02/13/01 | 6503.37 | NR | 33.80 | | 6469.57 |
| MW-1 | 02/20/01 | 6503.37 | NR | 33.81 | | 6469.56 |
| MW-1 | 02/28/01 | 6503.37 | NR | 33.81 | | 6469.56 |
| MW-1 | 06/04/01 | 6503.37 | 33.81 | 34.13 | 0.32 | 6469.48 |
| MW-1 | 07/03/01 | 6503.37 | 33.96 | 34.09 | 0.13 | 6469.37 |
| MW-1 | 08/06/01 | 6503.37 | 34.07 | 34.08 | 0.01 | 6469.29 |
| MW-1 | 08/20/01 | 6503.37 | 34.09 | 34.10 | 0.01 | 6469.27 |
| MW-1 | 08/31/01 | 6503.37 | NR | 34.17 | | 6469.20 |
| MW-1 | 09/14/01 | 6503.37 | 34.13 | 34.14 | 0.01 | 6469.23 |
| MW-1 | 09/26/01 | 6503.37 | 34.14 | 34.15 | 0.01 | 6469.22 |
| MW-1 | 10/02/01 | 6503.37 | 34.15 | 34.17 | 0.02 | 6469.21 |
| MW-1 | 10/10/01 | 6503.37 | 34.16 | 34.18 | 0.02 | 6469.20 |
| MW-1 | 12/05/01 | 6503.37 | 34.25 | 34.26 | 0.01 | 6469.11 |
| MW-1 | 12/14/01 | 6503.37 | NR | 34.27 | | 6469.10 |
| MW-1 | 12/21/01 | 6503.37 | NR | 34.24 | | 6469.13 |
| MW-1 | 12/28/01 | 6503.37 | NR | 34.22 | | 6469.15 |
| MW-1 | 01/02/02 | 6503.37 | NR | 34.23 | | 6469.14 |
| MW-1 | 01/07/02 | 6503.37 | 34.23 | 34.25 | 0.02 | 6469.13 |
| MW-1 | 01/23/02 | 6503.37 | 34.37 | 34.42 | 0.05 | 6468.98 |
| MW-1 | 01/30/02 | 6503.37 | 34.50 | 34.51 | 0.01 | 6468.86 |
| MW-1 | 02/07/02 | 6503.37 | 34.49 | 34.50 | 0.01 | 6468.87 |
| MW-1 | 02/14/02 | 6503.37 | 34.41 | 34.42 | 0.01 | 6468.95 |
| MW-1 | 02/20/02 | 6503.37 | 34.99 | 35.00 | 0.01 | 6468.37 |
| MW-1 | 02/26/02 | 6503.37 | NR | 34.25 | | 6469.12 |
| MW-1 | 03/07/02 | 6503.37 | 34.24 | 34.25 | 0.01 | 6469.12 |
| MW-1 | 03/12/02 | 6503.37 | 34.24 | 34.25 | 0.01 | 6469.12 |
| MW-1 | 03/28/02 | 6503.37 | NR | 34.27 | | 6469.10 |
| MW-1 | 04/03/02 | 6503.37 | NR | 34.26 | | 6469.11 |
| MW-1 | 04/25/02 | 6503.37 | NR | 34.45 | | 6468.92 |

# TABLE 2- GROUNDWATER ELEVATION RESULTS

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-1 | 05/21/02 | 6503.37 | NR | 34.30 | | 6469.07 |
| MW-1 | 06/10/02 | 6503.37 | NR | 34.32 | | 6469.05 |
| MW-1 | 09/23/02 | 6503.37 | NR | 34.50 | | 6468.87 |
| MW-1 | 03/25/03 | 6503.37 | ND | 34.50 | | 6468.87 |
| MW-1 | 06/22/03 | 6503.37 | 34.48 | 34.55 | 0.07 | 6468.87 |
| MW-1 | 09/15/03 | 6503.37 | 34.65 | 34.97 | 0.32 | 6468.64 |
| MW-1 | 12/15/03 | 6503.37 | 34.41 | 34.98 | 0.57 | 6468.81 |
| MW-1 | 03/17/04 | 6503.37 | 34.24 | 34.80 | 0.56 | 6468.99 |
| MW-1 | 03/22/04 | 6503.37 | 34.29 | 34.49 | 0.20 | 6469.03 |
| MW-1 | 06/03/04 | 6503.37 | 34.30 | 34.44 | 0.14 | 6469.03 |
| MW-1 | 06/04/04 | 6503.37 | 34.20 | 34.30 | 0.10 | 6469.14 |
| MW-1 | 09/13/04 | 6503.37 | 34.64 | 35.30 | 0.66 | 6468.56 |
| MW-1 | 09/14/04 | 6503.37 | 34.65 | 34.95 | 0.30 | 6468.64 |
| MW-1 | 12/15/04 | 6503.37 | 34.74 | 35.32 | 0.58 | 6468.48 |
| MW-1 | 03/22/05 | 6503.37 | 34.36 | 35.01 | 0.65 | 6468.84 |
| MW-1 | 06/24/05 | 6503.37 | 34.39 | 34.97 | 0.58 | 6468.83 |
| MW-1 | 09/14/05 | 6503.37 | 34.60 | 35.65 | 1.05 | 6468.50 |
| MW-1 | 12/14/05 | 6503.37 | 34.74 | 35.05 | 0.31 | 6468.55 |
| MW-1 | 03/28/06 | 6503.37 | 34.59 | 35.14 | 0.55 | 6468.64 |
| MW-1 | 06/07/06 | 6503.37 | 34.52 | 35.11 | 0.59 | 6468.70 |
| MW-1 | 09/29/06 | 6503.37 | 34.85 | 35.14 | 0.29 | 6468.44 |
| MW-1 | 12/26/06 | 6503.37 | 34.44 | 34.85 | 0.41 | 6468.82 |
| MW-1 | 03/26/07 | 6503.37 | 34.35 | 34.60 | 0.25 | 6468.95 |
| MW-1 | 06/13/07 | 6503.37 | 34.20 | 35.39 | 1.19 | 6468.87 |
| MW-1 | 09/28/07 | 6503.37 | 34.86 | 35.12 | 0.26 | 6468.44 |
| MW-1 | 12/18/07 | 6503.37 | 34.18 | 34.34 | 0.16 | 6469.15 |
| MW-1 | 03/05/08 | 6503.37 | 34.15 | 34.17 | 0.02 | 6469.21 |
| MW-1 | 06/16/08 | 6503.37 | ND | 34.17 | | 6469.20 |
| MW-1 | 09/10/08 | 6503.37 | ND | 34.35 | | 6469.02 |
| MW-1 | 12/10/08 | 6503.37 | ND | 34.30 | | 6469.07 |
| MW-1 | 03/02/09 | 6503.37 | ND | 34.22 | | 6469.15 |
| MW-1 | 06/10/09 | 6503.37 | ND | 35.14 | | 6468.23 |
| MW-1 | 08/25/09 | 6503.37 | ND | 34.50 | | 6468.87 |
| MW-1 | 11/03/09 | 6503.37 | ND | 34.57 | | 6468.80 |
| MW-1 | 02/16/10 | 6503.37 | 34.54 | 34.57 | 0.03 | 6468.82 |
| MW-1 | 06/02/10 | 6503.37 | 34.34 | 34.58 | 0.24 | 6468.97 |
| MW-1 | 09/27/10 | 6503.37 | 34.71 | 35.26 | 0.55 | 6468.52 |
| MW-1 | 11/08/10 | 6503.37 | 34.73 | 34.98 | 0.25 | 6468.57 |
| MW-1 | 02/01/11 | 6503.37 | 34.63 | 34.97 | 0.34 | 6468.65 |
| MW-1 | 05/02/11 | 6503.37 | ND | 35.52 | | 6467.85 |
| MW-1 | 09/23/11 | 6503.37 | 34.93 | 35.40 | 0.47 | 6468.32 |

# TABLE 2- GROUNDWATER ELEVATION RESULTS

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-1 | 11/10/11 | 6503.37 | 34.95 | 35.21 | 0.26 | 6468.35 |
| MW-1 | 02/22/12 | 6503.37 | ND | 34.98 | | 6468.39 |
| MW-1 | 05/15/12 | 6503.37 | ND | 35.04 | | 6468.33 |
| MW-1 | 06/05/13 | 6503.37 | ND | 39.13 | | 6464.24 |
| MW-1 | 09/10/13 | 6503.37 | ND | 36.50 | | 6466.87 |
| MW-1 | 12/10/13 | 6503.37 | 35.35 | 35.45 | 0.10 | 6467.99 |
| MW-1 | 04/04/14 | 6503.37 | 35.00 | 35.78 | 0.78 | 6468.17 |
| MW-1 | 10/22/14 | 6503.37 | 35.37 | 36.25 | 0.88 | 6467.78 |
| MW-1 | 05/28/15 | 6503.37 | 34.80 | 35.42 | 0.62 | 6468.41 |
| MW-1 | 11/21/15 | 6503.37 | 35.01 | 35.55 | 0.54 | 6468.22 |
| MW-1 | 04/14/16 | 6503.37 | 34.74 | 35.17 | 0.43 | 6468.52 |
| MW-1 | 05/23/16 | 6503.37 | 34.77 | 34.77 | | 6468.60 |
| MW-1 | 06/17/16 | 6503.37 | NM | NM | | NM |
| MW-1 | 07/17/16 | 6503.37 | NM | NM | | NM |
| MW-1 | 08/19/16 | 6503.37 | NM | NM | | NM |
| MW-1 | 09/24/16 | 6503.37 | NM | NM | | NM |
| MW-1 | 10/13/16 | 6503.37 | 35.32 | 35.41 | 0.09 | 6468.02 |
| MW-1 | 11/15/16 | 6503.37 | 36.49 | 36.50 | 0.01 | 6466.87 |
| MW-1 | 12/14/16 | 6503.37 | 36.37 | 36.40 | 0.03 | 6466.99 |
| MW-1 | 06/07/17 | 6503.37 | ND | 34.90 | | 6468.47 |
| MW-1 | 11/14/17 | 6503.37 | 35.41 | 35.50 | 0.09 | 6467.93 |
| MW-1 | 05/15/18 | 6503.37 | 35.04 | 35.72 | 0.68 | 6468.16 |
| MW-1 | 07/16/18 | 6503.37 | 35.39 | 36.16 | 0.77 | 6467.78 |
| MW-1 | 10/18/18 | 6503.37 | 36.78 | 37.15 | 0.37 | 6466.49 |
| MW-1 | 10/27/18 | 6503.37 | 35.67 | 35.68 | 0.01 | 6467.69 |
| MW-1 | 05/21/19 | 6503.37 | 35.46 | 35.46 | <0.01 | 6467.91 |
| MW-1 | 11/10/19 | 6503.37 | 35.87 | 35.96 | 0.09 | 6467.48 |
| MW-1 | 05/11/20 | 6503.37 | 35.83 | 36.04 | 0.21 | 6467.48 |
| MW-1 | 11/12/20 | 6503.37 | 36.13 | 36.17 | 0.04 | 6467.23 |
| | | | | | | |
| MW-2 | 11/16/00 | 6504.34 | NR | 34.90 | | 6469.44 |
| MW-2 | 06/04/01 | 6504.34 | NR | 34.97 | | 6469.37 |
| MW-2 | 07/03/01 | 6504.34 | NR | 35.07 | | 6469.27 |
| MW-2 | 08/06/01 | 6504.34 | NR | 35.14 | | 6469.20 |
| MW-2 | 08/31/01 | 6504.34 | NR | 35.19 | | 6469.15 |
| MW-2 | 09/14/01 | 6504.34 | NR | 35.21 | | 6469.13 |
| MW-2 | 03/19/02 | 6504.34 | NR | 35.36 | | 6468.98 |
| MW-2 | 12/24/02 | 6504.34 | NR | 35.52 | | 6468.82 |
| MW-2 | 03/25/03 | 6504.34 | ND | 35.54 | | 6468.80 |
| MW-2 | 06/22/03 | 6504.34 | ND | 35.60 | | 6468.74 |
| MW-2 | 09/15/03 | 6504.34 | ND | 35.60 | | 6468.74 |

# TABLE 2- GROUNDWATER ELEVATION RESULTS

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-2 | 12/15/03 | 6504.34 | ND | 35.63 | | 6468.71 |
| MW-2 | 03/22/04 | 6504.34 | ND | 35.41 | | 6468.93 |
| MW-2 | 06/04/04 | 6504.34 | ND | 35.31 | | 6469.03 |
| MW-2 | 09/14/04 | 6504.34 | ND | 35.80 | | 6468.54 |
| MW-2 | 12/15/04 | 6504.34 | ND | 35.79 | | 6468.55 |
| MW-2 | 03/22/05 | 6504.34 | ND | 35.63 | | 6468.71 |
| MW-2 | 06/24/05 | 6504.34 | ND | 35.60 | | 6468.74 |
| MW-2 | 09/14/05 | 6504.34 | ND | 35.92 | | 6468.42 |
| MW-2 | 12/14/05 | 6504.34 | ND | 35.85 | | 6468.49 |
| MW-2 | 12/15/05 | 6504.34 | ND | 35.85 | | 6468.49 |
| MW-2 | 03/28/06 | 6504.34 | ND | 35.73 | | 6468.61 |
| MW-2 | 06/07/06 | 6504.34 | ND | 35.73 | | 6468.61 |
| MW-2 | 09/29/06 | 6504.34 | ND | 35.91 | | 6468.43 |
| MW-2 | 12/26/06 | 6504.34 | ND | 35.63 | | 6468.71 |
| MW-2 | 03/26/07 | 6504.34 | ND | 35.41 | | 6468.93 |
| MW-2 | 06/13/07 | 6504.34 | ND | 35.32 | | 6469.02 |
| MW-2 | 09/28/07 | 6504.34 | ND | 35.93 | | 6468.41 |
| MW-2 | 12/18/07 | 6504.34 | ND | 35.32 | | 6469.02 |
| MW-2 | 03/05/08 | 6504.34 | ND | 35.22 | | 6469.12 |
| MW-2 | 06/16/08 | 6504.34 | ND | 35.15 | | 6469.19 |
| MW-2 | 09/10/08 | 6504.34 | ND | 35.45 | | 6468.89 |
| MW-2 | 12/10/08 | 6504.34 | ND | 35.37 | | 6468.97 |
| MW-2 | 03/02/09 | 6504.34 | ND | 35.27 | | 6469.07 |
| MW-2 | 06/10/09 | 6504.34 | ND | 35.23 | | 6469.11 |
| MW-2 | 08/25/09 | 6504.34 | ND | 35.58 | | 6468.76 |
| MW-2 | 11/03/09 | 6504.34 | ND | 35.65 | | 6468.69 |
| MW-2 | 02/16/10 | 6504.34 | ND | 35.65 | | 6468.69 |
| MW-2 | 06/02/10 | 6504.34 | ND | 35.48 | | 6468.86 |
| MW-2 | 09/27/10 | 6504.34 | ND | 35.85 | | 6468.49 |
| MW-2 | 11/08/10 | 6504.34 | ND | 35.85 | | 6468.49 |
| MW-2 | 02/01/11 | 6504.34 | ND | 35.75 | | 6468.59 |
| MW-2 | 09/23/11 | 6504.34 | ND | 36.07 | | 6468.27 |
| MW-2 | 11/10/11 | 6504.34 | ND | 36.08 | | 6468.26 |
| MW-2 | 02/22/12 | 6504.34 | ND | 36.97 | | 6467.37 |
| MW-2 | 05/15/12 | 6504.34 | ND | 36.10 | | 6468.24 |
| MW-2 | 06/05/13 | 6504.34 | ND | 36.18 | | 6468.16 |
| MW-2 | 09/10/13 | 6504.34 | ND | 36.58 | | 6467.76 |
| MW-2 | 12/10/13 | 6504.34 | ND | 36.44 | | 6467.90 |
| MW-2 | 04/04/14 | 6504.34 | ND | 35.25 | | 6469.09 |
| MW-2 | 10/22/14 | 6504.34 | ND | 36.65 | | 6467.69 |
| MW-2 | 05/28/15 | 6504.34 | ND | 36.02 | | 6468.32 |

# TABLE 2- GROUNDWATER ELEVATION RESULTS

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-2 | 11/21/15 | 6504.34 | ND | 36.20 | | 6468.14 |
| MW-2 | 04/14/16 | 6504.34 | ND | 35.91 | | 6468.43 |
| MW-2 abandoned on May 22, 2016 | | | | | | |
| | | | | | | |
| MW-2R | 05/15/18 | 6503.35 | ND | 35.60 | | 6467.75 |
| MW-2R | 10/27/18 | 6503.35 | ND | 36.18 | | 6467.17 |
| MW-2R | 05/21/19 | 6503.35 | ND | 35.92 | | 6467.43 |
| MW-2R | 11/10/19 | 6503.35 | ND | 36.36 | | 6466.99 |
| MW-2R | 05/11/20 | 6503.35 | 36.29 | 36.30 | 0.01 | 6467.05 |
| MW-2R | 08/19/20 | 6503.35 | 36.50 | 36.50 | <0.01 | 6466.85 |
| MW-2R | 11/12/20 | 6503.35 | ND | 36.62 | | 6466.73 |
| | | | | | | |
| MW-3 | 11/16/00 | 6503.67 | NR | 34.46 | | 6469.21 |
| MW-3 | 06/04/01 | 6503.67 | NR | 34.64 | | 6469.03 |
| MW-3 | 07/03/01 | 6503.67 | NR | 34.66 | | 6469.01 |
| MW-3 | 08/06/01 | 6503.67 | NR | 34.74 | | 6468.93 |
| MW-3 | 08/31/01 | 6503.67 | NR | 34.79 | | 6468.88 |
| MW-3 | 09/14/01 | 6503.67 | NR | 34.81 | | 6468.86 |
| MW-3 | 03/19/02 | 6503.67 | NR | 34.92 | | 6468.75 |
| MW-3 | 06/10/02 | 6503.67 | NR | 34.98 | | 6468.69 |
| MW-3 | 09/23/02 | 6503.67 | NR | 35.11 | | 6468.56 |
| MW-3 | 12/24/02 | 6503.67 | NR | 35.15 | | 6468.52 |
| MW-3 | 03/25/03 | 6503.67 | ND | 35.12 | | 6468.55 |
| MW-3 | 06/22/03 | 6503.67 | ND | 35.17 | | 6468.50 |
| MW-3 | 09/15/03 | 6503.67 | ND | 35.41 | | 6468.26 |
| MW-3 | 12/15/03 | 6503.67 | ND | 35.17 | | 6468.50 |
| MW-3 | 03/22/04 | 6503.67 | ND | 34.95 | | 6468.72 |
| MW-3 | 06/04/04 | 6503.67 | ND | 34.88 | | 6468.79 |
| MW-3 | 09/14/04 | 6503.67 | ND | 35.39 | | 6468.28 |
| MW-3 | 12/15/04 | 6503.67 | ND | 35.17 | | 6468.50 |
| MW-3 | 03/22/05 | 6503.67 | ND | 35.17 | | 6468.50 |
| MW-3 | 06/24/05 | 6503.67 | ND | 35.21 | | 6468.46 |
| MW-3 | 09/14/05 | 6503.67 | ND | 35.51 | | 6468.16 |
| MW-3 | 12/15/05 | 6503.67 | ND | 35.40 | | 6468.27 |
| MW-3 | 03/28/06 | 6503.67 | ND | 35.27 | | 6468.40 |
| MW-3 | 06/07/06 | 6503.67 | ND | 35.32 | | 6468.35 |
| MW-3 | 09/29/06 | 6503.67 | ND | 35.47 | | 6468.20 |
| MW-3 | 12/26/06 | 6503.67 | ND | 35.16 | | 6468.51 |
| MW-3 | 03/26/07 | 6503.67 | ND | 34.96 | | 6468.71 |
| MW-3 | 06/13/07 | 6503.67 | ND | 34.88 | | 6468.79 |
| MW-3 | 09/28/07 | 6503.67 | ND | 35.51 | | 6468.16 |
| MW-3 | 12/18/07 | 6503.67 | ND | 34.88 | | 6468.79 |

# TABLE 2- GROUNDWATER ELEVATION RESULTS

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-3 | 03/05/08 | 6503.67 | ND | 34.79 | | 6468.88 |
| MW-3 | 06/16/08 | 6503.67 | ND | 34.75 | | 6468.92 |
| MW-3 | 09/10/08 | 6503.67 | ND | 35.13 | | 6468.54 |
| MW-3 | 12/10/08 | 6503.67 | ND | 34.95 | | 6468.72 |
| MW-3 | 03/02/09 | 6503.67 | ND | 34.83 | | 6468.84 |
| MW-3 | 06/10/09 | 6503.67 | ND | 34.83 | | 6468.84 |
| MW-3 | 08/25/09 | 6503.67 | ND | 35.18 | | 6468.49 |
| MW-3 | 11/03/09 | 6503.67 | ND | 35.23 | | 6468.44 |
| MW-3 | 02/16/10 | 6503.67 | ND | 35.23 | | 6468.44 |
| MW-3 | 06/02/10 | 6503.67 | ND | 35.05 | | 6468.62 |
| MW-3 | 09/27/10 | 6503.67 | ND | 35.43 | | 6468.24 |
| MW-3 | 11/08/10 | 6503.67 | ND | 35.43 | | 6468.24 |
| MW-3 | 02/01/11 | 6503.67 | ND | 35.31 | | 6468.36 |
| MW-3 | 09/23/11 | 6503.67 | ND | 35.70 | | 6467.97 |
| MW-3 | 11/10/11 | 6503.67 | ND | 35.66 | | 6468.01 |
| MW-3 | 02/22/12 | 6503.67 | ND | 35.60 | | 6468.07 |
| MW-3 | 05/15/12 | 6503.67 | ND | 35.67 | | 6468.00 |
| MW-3 | 06/05/13 | 6503.67 | ND | 35.79 | | 6467.88 |
| MW-3 | 09/10/13 | 6503.67 | ND | 36.20 | | 6467.47 |
| MW-3 | 12/10/13 | 6503.67 | ND | 36.00 | | 6467.67 |
| MW-3 | 04/04/14 | 6503.67 | ND | 35.81 | | 6467.86 |
| MW-3 | 10/22/14 | 6503.67 | ND | 36.20 | | 6467.47 |
| MW-3 | 05/28/15 | 6503.67 | ND | 35.55 | | 6468.12 |
| MW-3 | 11/21/15 | 6503.67 | ND | 35.74 | | 6467.93 |
| MW-3 | 04/14/16 | 6503.67 | ND | 35.46 | | 6468.21 |
| MW-3 abandoned on May 22, 2016 | | | | | | |
| | | | | | | |
| MW-3R | 05/15/18 | 6498.85 | ND | 31.28 | | 6467.57 |
| MW-3R | 10/27/18 | 6498.85 | ND | 31.84 | | 6467.01 |
| MW-3R | 05/21/19 | 6498.85 | ND | 31.60 | | 6467.25 |
| MW-3R | 11/10/19 | 6498.85 | ND | 32.02 | | 6466.83 |
| MW-3R | 05/11/20 | 6498.85 | ND | 31.99 | | 6466.86 |
| MW-3R | 11/12/20 | 6498.85 | ND | 32.29 | | 6466.56 |
| | | | | | | |
| MW-4 | 05/15/18 | 6507.17 | 39.16 | 39.16 | <0.01 | 6468.01 |
| MW-4 | 07/16/18 | 6507.17 | 39.44 | 40.60 | 1.16 | 6467.44 |
| MW-4 | 10/18/18 | 6507.17 | 39.63 | 40.82 | 1.19 | 6467.24 |
| MW-4 | 10/27/18 | 6507.17 | ND | 39.92 | | 6467.25 |
| MW-4 | 05/21/19 | 6507.17 | 39.60 | 39.60 | <0.01 | 6467.57 |
| MW-4 | 11/10/19 | 6507.17 | 39.92 | 40.62 | <0.02 | 6468.57 |
| MW-4 | 05/11/20 | 6507.17 | 39.91 | 40.40 | 0.49 | 6467.14 |
| MW-4 | 08/19/20 | 6507.17 | 40.16 | 40.36 | 0.20 | 6466.96 |

# TABLE 2- GROUNDWATER ELEVATION RESULTS

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| Location | Date | TOC | Depth to LNAPL (ft.) | Depth to Water (ft.) | LNAPL Thickness (ft.) | GW Elevation (ft.) |
| MW-4 | 11/12/20 | 6507.17 | 40.10 | 41.13 | 1.03 | 6466.81 |
| | | | | | | |
| MW-5 | 05/15/18 | 6503.72 | ND | 35.89 | | 6467.83 |
| MW-5 | 10/27/18 | 6503.72 | ND | 36.45 | | 6467.27 |
| MW-5 | 05/21/19 | 6503.72 | ND | 36.20 | | 6467.52 |
| MW-5 | 11/10/19 | 6503.72 | ND | 36.60 | | 6467.12 |
| MW-5 | 05/11/20 | 6503.72 | ND | 36.58 | | 6467.14 |
| MW-5 | 11/12/20 | 6503.72 | ND | 36.90 | | 6466.82 |
| | | | | | | |
| MW-6 | 05/15/18 | 6504.29 | ND | 36.41 | | 6467.88 |
| MW-6 | 10/27/18 | 6504.29 | ND | 36.98 | | 6467.31 |
| MW-6 | 05/21/19 | 6504.29 | ND | 36.74 | | 6467.55 |
| MW-6 | 11/10/19 | 6504.29 | ND | 37.11 | | 6467.18 |
| MW-6 | 05/11/20 | 6504.29 | ND | 37.10 | | 6467.19 |
| MW-6 | 11/12/20 | 6504.29 | ND | 37.42 | | 6466.87 |
| | | | | | | |
| MW-7 | 05/15/18 | 6504.59 | ND | 36.71 | | 6467.88 |
| MW-7 | 10/27/18 | 6504.59 | ND | 37.28 | | 6467.31 |
| MW-7 | 05/21/19 | 6504.59 | ND | 37.03 | | 6467.56 |
| MW-7 | 11/10/19 | 6504.59 | ND | 37.43 | | 6467.16 |
| MW-7 | 05/11/20 | 6504.59 | ND | 37.40 | | 6467.19 |
| MW-7 | 11/12/20 | 6504.59 | ND | 37.71 | | 6466.88 |
| | | | | | | |
| MW-8 | 11/10/19 | 6508.27 | ND | 41.21 | | 6467.06 |
| MW-8 | 05/11/20 | 6508.27 | ND | 41.17 | | 6467.10 |
| MW-8 | 11/12/20 | 6508.27 | ND | 41.46 | | 6466.81 |
| | | | | | | |
| MW-9 | 11/10/19 | 6503.86 | 36.72 | 37.45 | 0.73 | 6466.96 |
| MW-9 | 05/11/20 | 6503.86 | 36.66 | 37.30 | 0.64 | 6467.04 |
| MW-9 | 08/19/20 | 6503.86 | 36.87 | 37.57 | 0.70 | 6466.82 |
| MW-9 | 11/12/20 | 6503.86 | 36.98 | 37.67 | 0.69 | 6466.71 |

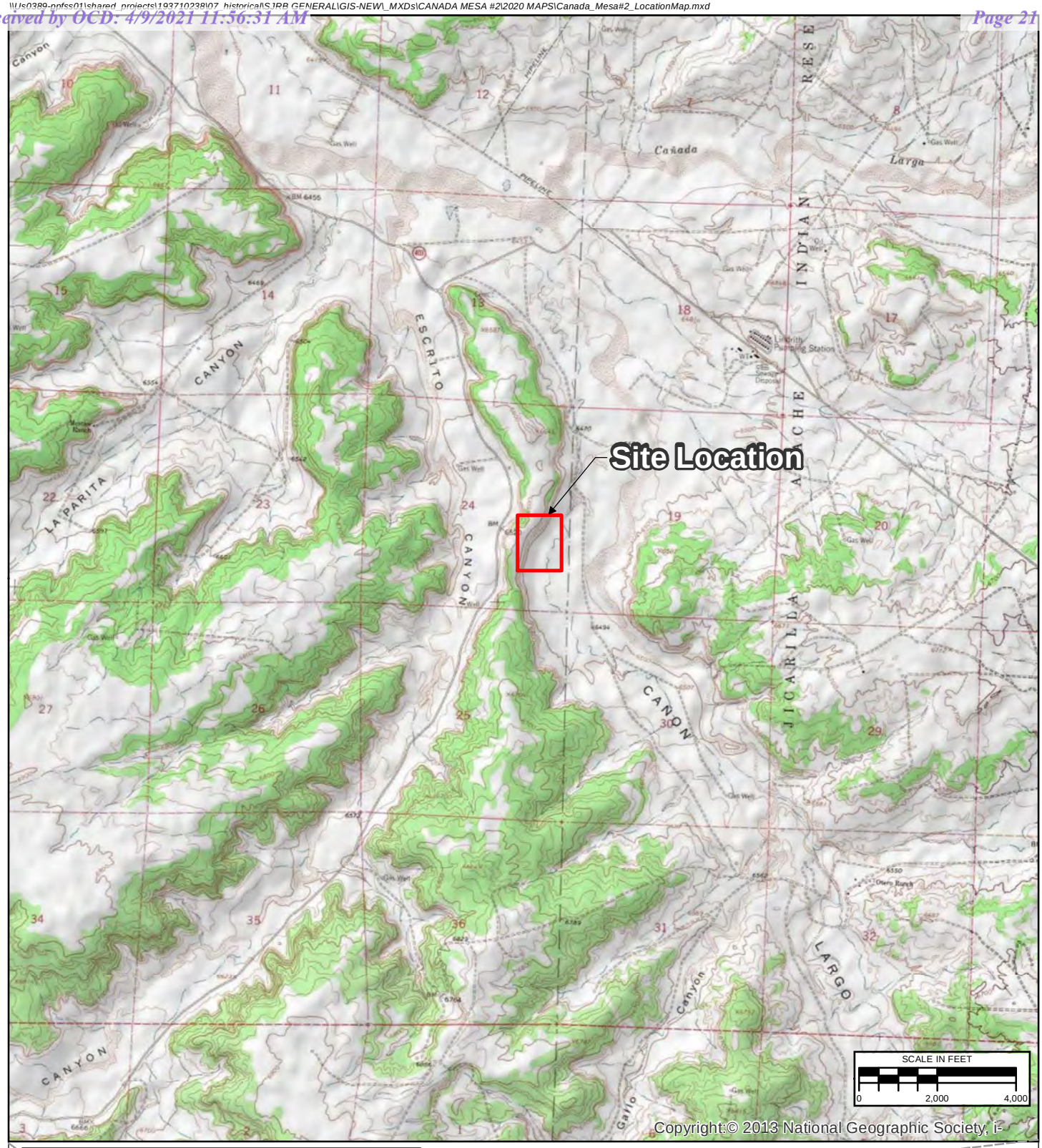
Notes:
"ft" = feet
"TOC" = Top of casing
"LNAPL" = Light non-aqueous phase liquid
"ND" = LNAPL not detected
"NR" = LNAPL not recorded
"NM" = Not Measured (Free Product thickness determined from bailer thickness)

## TABLE 3 - FREE PRODUCT RECOVERY SUMMARY

| Canada Mesa #2 | | | | | | |
|---|---|---|---|---|---|---|
| **Well ID - MW-1** | **Depth to Product (Feet)** | **Depth to Water (Feet)** | **Measured Thickness (Feet)** | **Product Recovered (gal)** | **Water Recovered (gal)** | **Recovery Type** |
| **Date** | | | | | | |
| 4/14/2016 | 34.74 | 35.17 | 0.43 | 0.61 | 0.00 | manual |
| 5/23/2016 | ND | 34.77 | 0.00 | 0.00 | 0.00 | manual |
| 6/17/2016 | NM | NM | 0.22 | 0.08 | 0.01 | manual |
| 7/17/2016 | NM | NM | 0.11 | 0.05 | 0.00 | manual |
| 8/19/2016 | NM | NM | 0.11 | 0.08 | 0.01 | manual |
| 9/24/2016 | NM | NM | 0.06 | <0.01 | <0.01 | manual |
| 10/13/2016 | 35.32 | 35.41 | 0.09 | 0.01 | 0.00 | manual |
| 11/15/2016 | 36.49 | 36.50 | 0.01 | <0.01 | <0.01 | manual |
| 12/14/2016 | 36.37 | 36.40 | 0.03 | <0.01 | <0.01 | manual |
| 11/14/2017 | 35.41 | 35.50 | 0.09 | Trace | <0.01 | manual |
| 5/15/2018 | 35.04 | 35.72 | 0.68 | <0.01 | <0.01 | manual |
| 7/16/2018 | 35.39 | 36.16 | 0.77 | -- | -- | Mobile DPE |
| 10/18/2018 | 36.78 | 37.15 | 0.37 | 4.3 | 646 | Mobile DPE* |
| 10/19/2018 | 36.93 | 37.02 | 0.09 | 7.0 | 994 | Mobile DPE* |
| 10/27/2018 | 35.67 | 35.68 | 0.01 | <0.01 | <0.01 | manual |
| 5/21/2019 | 35.46 | 35.46 | <0.01 | <0.01 | <0.01 | manual |
| 11/10/2019 | 35.87 | 35.96 | 0.09 | 0.05 | 0.37 | manual |
| 5/11/2020 | 35.83 | 36.04 | 0.21 | 0.16 | 0.24 | manual |
| 11/12/2020 | 36.13 | 36.17 | 0.04 | 0.03 | 0.05 | manual |
| | | | **Total:** | 12.4 | 1641 | |
| **Well ID - MW-2R** | | | | | | |
| 5/11/2020 | 36.29 | 36.30 | 0.01 | Trace | Trace | manual |
| 8/19/2020 | 36.50 | 36.50 | <0.01 | Trace | 0.13 | manual |
| | | | **Total:** | Trace | 0.13 | |
| **Well ID - MW-4** | | | | | | |
| 5/15/2018 | 39.16 | 39.16 | <0.01 | Trace | 0.26 | manual |
| 7/16/2018 | 39.44 | 40.60 | 1.16 | 2.7 | 817 | Mobile DPE* |
| 10/18/2018 | 39.63 | 40.82 | 1.19 | 1.1 | 470 | Mobile DPE* |
| 10/19/2018 | 40.00 | 40.18 | 0.18 | 3.4 | 1379 | Mobile DPE* |
| 5/21/2019 | 39.60 | 39.60 | <0.01 | <0.01 | 0 | manual |
| 11/10/2019 | 39.92 | 40.62 | 0.70 | 0.13 | 0.37 | manual |
| 5/11/2020 | 39.91 | 40.40 | 0.49 | 0.21 | 0.48 | manual |
| 8/19/2020 | 40.16 | 40.36 | 0.20 | 0.42 | 0.11 | manual |
| 11/12/2020 | 40.10 | 41.13 | 1.03 | 0.28 | 0.09 | manual |
| | | | **Total:** | 8.2 | 2667 | |
| **Well ID - MW-9** | | | | | | |
| 11/10/2019 | 36.72 | 37.45 | 0.73 | 0.18 | 0.26 | manual |
| 5/11/2020 | 36.66 | 37.30 | 0.64 | 2.5 | 0.18 | manual |
| 8/19/2020 | 36.87 | 37.57 | 0.70 | 0.17 | 2.14 | manual |
| 11/12/2020 | 36.98 | 37.67 | 0.69 | 1.38 | 0.44 | manual |
| | | | **Total:** | 4.23 | 3.02 | |

Notes:
gal = gallons.
NM - Not Measured. Measured thickness was obtained by measuring the thickness within a bailer.
ND = Not Detected.
* = Mobile Duel Phase Extraction (DPE) includes calculated recovered hydrocarbon vapors.
-- = No date recorded (recovery amounts combined with MW-4 MDPE event).
Product recovery data for 2015 and previous years documented in previously-submitted reports.

**FIGURES**





N

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2/15/2021 | SAH | SAH | SRV |

TITLE
**SITE LOCATION**

Stantec

PROJECT
**CANADA MESA #2**
**SAN JUAN RIVER BASIN**
**RIO ARRIBA COUNTY, NEW MEXICO**

FIGURE
**1**

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2020 MAPS\Canada_Mesa#2_SITEMAP_2020.mxd

FORMER TANK
FORMER BERM
2.5" PIPE CAPPED
1" PIPE
FORMER ACCESS ROAD
FORMER LINE PIT
FORMER DEHYDRATOR
6505
6500
FORMER CANADA MESA #2 WELLHEAD (CAPPED)
SMA BENCHMARK
ELEV 6499.73'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL
FORMER GAS LINE (REMOVED)
MW-8
MW-9
FORMER PUMP JACK
6510
FORMER UNLINED PIT
MW-2
MW-2R
MW-4
FORMER METER HOUSE
6495
MW-3
SB-5
FORMER EPC PIT EXCAVATED TO APPROXIMATELY 12 FEET DEEP
MW-7
MW-3R
MW-1
SB-1
MW-5
SB-4
FORMER UNLINED PIT
MW-6
SB-2
SB-3
GAS
AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/13/2017

## LEGEND:

- 6503 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- BARRICADE
- GAS — NATURAL GAS LINE
- MONITORING WELL
- SOIL BORING
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- PIPE
- FENCING
- FORMER WELLHEAD
- FORMER UNLINED PIT
- FORMER FEATURES
- RIGHT OF WAY BOUNDARY

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| A | 2/20/2021 | SLG | SLG | SRV |

TITLE: SITE PLAN

PROJECT: CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 2

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2020 MAPS\Canada_Mesa#2_GARM_1SA_2020.mxd

FORMER TANK

FORMER BERM

FORMER ACCESS ROAD

2.5" PIPE CAPPED

1" PIPE

FORMER LINE PIT

FORMER DEHYDRATOR

FORMER CANADA MESA #2 WELLHEAD (CAPPED)

SMA BENCHMARK
ELEV 6499.73'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

FORMER GAS LINE (REMOVED)

FORMER PUMP JACK

FORMER UNLINED PIT

FORMER METER HOUSE

FORMER EPC PIT EXCAVATED TO APPROXIMATELY 12 FEET DEEP

FORMER UNLINED PIT

6510

6505

6500

6495

6490

| MW-8 | DUP-01 |
|---|---|
| B: 100 | B: 60 |
| T: <20 | T: <20 |
| E: 630 | E: 440 |
| X: 3900 | X: 2400 |

MW-9 NS

MW-2R NS

MW-4 NS

MW-7 NS

MW-1 NS

MW-6 NS

| MW-3R |
|---|
| B: <1.0 |
| T: <1.0 |
| E: <1.0 |
| X: <10 |

| MW-5 |
|---|
| B: <1.0 |
| T: <1.0 |
| E: <1.0 |
| X: <10 |

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/13/2017

## LEGEND:

- APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- BARRICADE
- NATURAL GAS LINE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- PIPE
- FENCING
- FORMER WELLHEAD
- FORMER UNLINED PIT
- FORMER FEATURES

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW 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 |
|---|---|---|---|---|
| A | 2/20/2021 | SAH | SAH | SRV |

TITLE:

GROUNDWATER ANALYTICAL RESULTS
MAY 11, 2020

PROJECT:

CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 3

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2020 MAPS\Canada_Mesa#2_GECM_1SA_2020.mxd

FORMER TANK

FORMER BERM

2.5" PIPE CAPPED

1" PIPE

FORMER LINE PIT

FORMER DEHYDRATOR

FORMER CANADA MESA #2 WELLHEAD

SMA BENCHMARK
ELEV 6499.73'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

FORMER GAS LINE (REMOVED)

FORMER PUMP JACK

FORMER UNLINED PIT

FORMER METER HOUSE

FORMER EPC PIT EXCAVTED TO APPROXIMATELY 12 FEET DEEP

FORMER UNLINED PIT

MW-8 6467.10

MW-9 6467.04

MW-2R 6467.05

MW-4 6467.14

MW-7 6467.19

MW-1 6467.48

MW-5 6467.14

MW-6 6467.19

MW-3R 6466.86

6467.4

6467.2

6467.0

6510

6505

6500

6495

6490

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/13/2017

## LEGEND:

- 6508 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- BARRICADE
- G-A-S — NATURAL GAS LINE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- PIPE
- FENCING
- FORMER WELLHEAD
- FORMER UNLINED PIT
- FORMER FEATURES

**NOTES:**

6468.15 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF GROUNDWATER FLOW

N

SCALE IN FEET

0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2/20/2021 | SAH | SAH | SRV |

TITLE:

GROUNDWATER ELEVATION MAP
MAY 11, 2020

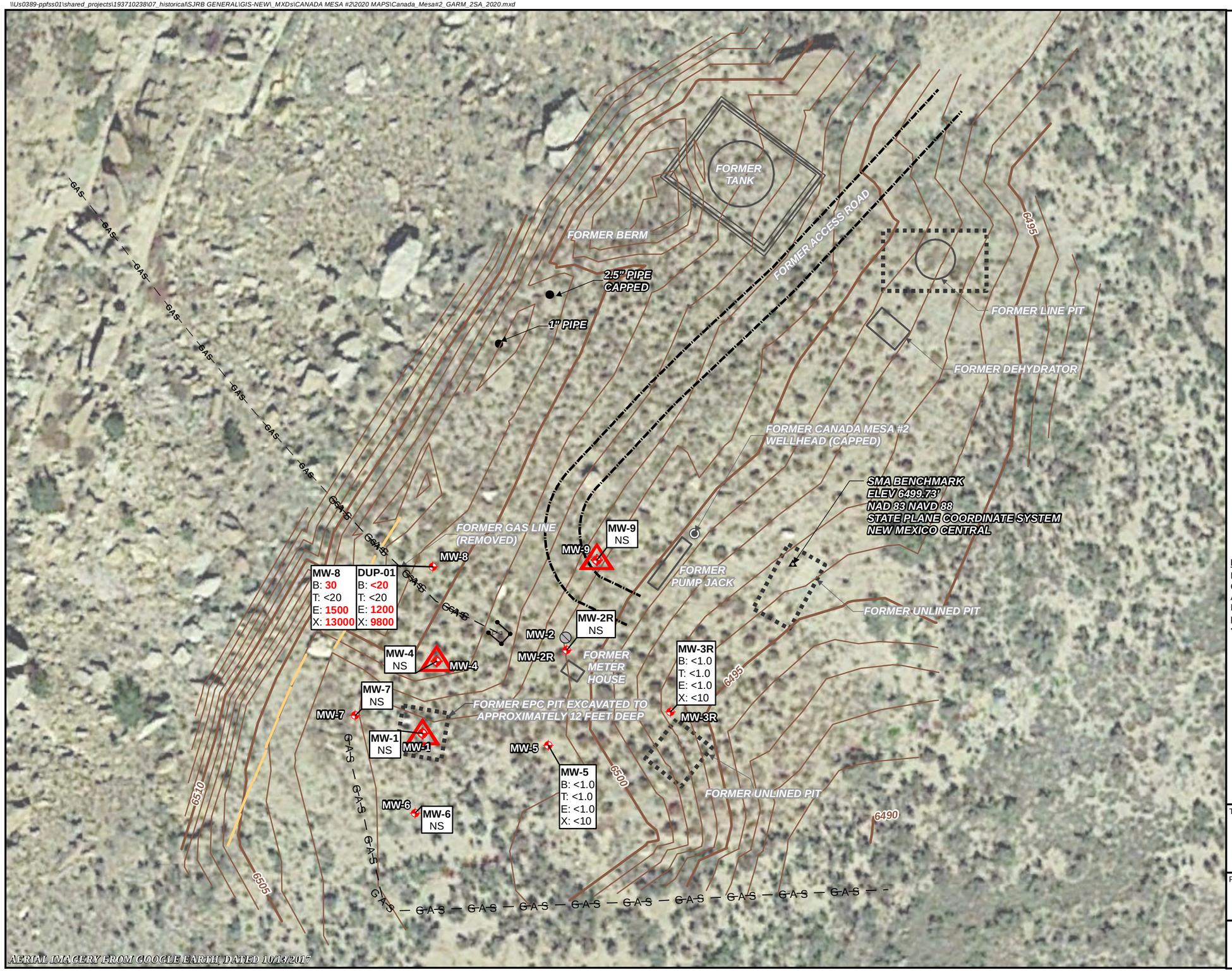
PROJECT:

CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

Stantec

Figure No.: 4

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2020 MAPS\Canada_Mesa#2_GARM_2SA_2020.mxd




## LEGEND:

- 6503 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- BARRICADE
- G-A-S — NATURAL GAS LINE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- PIPE
- FENCING
- FORMER WELLHEAD
- FORMER UNLINED PIT
- FORMER FEATURES

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
µg/L = MICROGRAMS PER LITER
<1 = BELOW 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 |
|---|---|---|---|---|
| A | 2/20/2021 | SAH | SAH | SRV |

TITLE:

*GROUNDWATER ANALYTICAL RESULTS*
*NOVEMBER 12, 2020*

PROJECT:

*CANADA MESA #2*
*SAN JUAN RIVER BASIN*
*RIO ARRIBA COUNTY, NEW MEXICO*

Stantec

Figure No.: **5**

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\CANADA MESA #2\2020 MAPS\Canada_Mesa#2_GECM_2SA_2020.mxd

FORMER TANK

FORMER BERM

2.5" PIPE CAPPED

1" PIPE

FORMER LINE PIT

FORMER DEHYDRATOR

FORMER CANADA MESA #2 WELLHEAD

SMA BENCHMARK
ELEV 6499.73'
NAD 83 NAVD 88
STATE PLANE COORDINATE SYSTEM
NEW MEXICO CENTRAL

FORMER GAS LINE (REMOVED)

MW-8
6466.81

MW-9
6466.71

FORMER PUMP JACK

FORMER UNLINED PIT

MW-2R
6466.73

MW-4
6466.81

MW-7
6466.88

MW-1
6467.23

FORMER METER HOUSE

MW-3R
6466.56

MW-5
6466.82

FORMER EPC PIT EXCAVTED TO APPROXIMATELY 12 FEET DEEP

FORMER UNLINED PIT

MW-6
6466.87

6510
6505
6500
6495
6490
6467.0
6466.6

AERIAL IMAGERY FROM GOOGLE EARTH, DATED 10/13/2017

## LEGEND:

- 6503 — APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- ACCESS ROAD
- BARRICADE
- G-A-S — NATURAL GAS LINE
- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- ABANDONED MONITORING WELL
- SMA BENCHMARK
- PIPE
- FENCING
- FORMER WELLHEAD
- FORMER UNLINED PIT
- FORMER FEATURES

**NOTES:**

6468.15 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)

DIRECTION OF GROUNDWATER FLOW

N

SCALE IN FEET
0 30 60

| REVISION | DATE | DESIGN BY | DRAWN BY | REVIEWED BY |
|---|---|---|---|---|
| | 2/20/2021 | SAH | SAH | SRV |

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 12, 2020

PROJECT:

CANADA MESA #2
SAN JUAN RIVER BASIN
RIO ARRIBA COUNTY, NEW MEXICO

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Figure No.: 6

## APPENDICES

APPENDIX A – NMOCD NOTIFICATION OF SITE ACTIVITIES

APPENDIX B – WASTEWATER DISPOSAL DOCUMENTATION

APPENDIX C – MAY 11, 2020 GROUNDWATER SAMPLING ANALYTICAL REPORT

NOVEMBER 12, 2020 GROUNDWATER SAMPLING ANALYTICAL REPORT

# APPENDIX A

**From:** Varsa, Steve
**To:** Smith, Cory, EMNRD
**Cc:** Griswold, Jim, EMNRD; Wiley, Joe
**Bcc:** Varsa, Steve
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities
**Date:** Tuesday, May 05, 2020 9:45:00 PM

---

Hi Cory -

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

| Site Name | NMOCD Case # | Sample Date |
|---|---|---|
| Canada Mesa #2 | 3RP-155-0 | 05/11/2020 |
| Fields A#7A | 3RP-170-0 | 05/13/2020 |
| Fogelson 4-1 | 3RP-068-0 | 05/15/2020 |
| Gallegos Canyon Unit #124E | 3RP-407-0 | 05/16/2020 |
| GCU Com A #142E | 3RP-179-0 | 05/15/2020 |
| James F. Bell #1E | 3RP-196-0 | 05/16/2020 |
| Johnston Fed #4 | 3RP-201-0 | 05/17/2020 |
| Johnston Fed #6A | 3RP-202-0 | 05/17/2020 |
| K27 LDO72 | 3RP-204-0 | 05/12/2020 |
| Knight #1 | 3RP-207-0 | 05/14/2020 |
| Lateral L 40 Line Drip | 3RP-212-0 | 05/14/2020 |
| Miles Fed #1A | 3RP-223-0 | 05/11/2020 |
| Sandoval GC A #1A | 3RP-235-0 | 05/15/2020 |
| Standard Oil Com #1 | 3RP-238-0 | 05/12/2020 |
| State Gas Com N #1 | 3RP-239-0 | 05/13/2020 |

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

Thank you,
Steve

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

**From:** Varsa, Steve
**To:** Smith, Cory, EMNRD
**Cc:** Griswold, Jim, EMNRD; Wiley, Joe
**Subject:** El Paso CGP Company - Notice of upcoming product recovery activities
**Date:** Wednesday, August 12, 2020 3:05:25 PM

Hi Cory -

This correspondence is to provide notice to the NMOCD of upcoming product recovery activities at the following El Paso CGP Company (EPCGP) project sites:

| Site Name | Incident Number | Case Number | Date |
|---|---|---|---|
| Canada Mesa #2 | Unknown | 3RP-155-0 | 08/19/2020 |
| Fields A#7A | Unknown | 3RP-170-0 | 08/18/2020 |
| Fogelson 4-1 | Unknown | 3RP-068-0 | 08/18/2020 |
| Gallegos Canyon Unit #124E | NAUTOFAB000205 | 3RP-407-0 | 08/18/2020 |
| James F. Bell #1E | Unknown | 3RP-196-0 | 08/18/2020 |
| Johnston Fed #4 | Unknown | 3RP-201-0 | 08/19/2020 |
| Johnston Fed #6A | Unknown | 3RP-202-0 | 08/19/2020 |
| K27 LDO72 | Unknown | 3RP-204-0 | 08/19/2020 |
| Knight #1 | Unknown | 3RP-207-0 | 08/18/2020 |
| Lateral L 40 Line Drip | Unknown | 3RP-212-0 | 08/19/2020 |
| State Gas Com N #1 | Unknown | 3RP-239-0 | 08/18/2020 |

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

Thank you,
Steve

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

**From:** Smith, Cory, EMNRD
**To:** Varsa, Steve
**Cc:** Griswold, Jim, EMNRD; Wiley, Joe
**Subject:** RE: El Paso CGP Company - Notice of upcoming groundwater sampling activities
**Date:** Thursday, November 05, 2020 8:56:01 AM

Steve,

Thank you for the notification.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

**From:** Varsa, Steve <steve.varsa@stantec.com>
**Sent:** Thursday, November 5, 2020 6:02 AM
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
**Cc:** Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Wiley, Joe <joe_wiley@kindermorgan.com>
**Subject:** [EXT] El Paso CGP Company - Notice of upcoming groundwater sampling activities

Hi Cory -

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

| Site Name | NMOCD Case # | Sample Date |
|---|---|---|
| Canada Mesa #2 | 3RP-155-0 | 11/12/2020 |
| Fields A#7A | 3RP-170-0 | 11/14/2020 |
| Fogelson 4-1 | 3RP-068-0 | 11/14/2020 |
| Gallegos Canyon Unit #124E | 3RP-407-0 | 11/11/2020 |
| GCU Com A #142E | 3RP-179-0 | 11/11/2020 |
| James F. Bell #1E | 3RP-196-0 | 11/15/2020 |
| Johnston Fed #4 | 3RP-201-0 | 11/13/2020 |
| Johnston Fed #6A | 3RP-202-0 | 11/13/2020 |
| K27 LDO72 | 3RP-204-0 | 11/12/2020 |
| Knight #1 | 3RP-207-0 | 11/11/2020 |
| Lateral L 40 Line Drip | 3RP-212-0 | 11/15/2020 |
| Miles Fed #1A | 3RP-223-0 | 11/12/2020 |
| Sandoval GC A #1A | 3RP-235-0 | 11/13/2020 |
| Standard Oil Com #1 | 3RP-238-0 | 11/12/2020 |
| State Gas Com N #1 | 3RP-239-0 | 11/14/2020 |

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

Thank you,
Steve

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

# APPENDIX B

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-1013
OPEN 24 Hours per Day

NO. 732583
NMOCD PERMIT: NM-001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 5.13.20

DEL. TKT#.

GENERATOR: El Paso CGP

BILL TO: El Paso CGP

HAULING CO: Stanteo

DRIVER:
(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 | | Fields #7A / State Gas Com M1 | | | | | | |
| 2 | | Canada Mesa #2 K27LD172 | | | | | | |
| 3 | | Miles Fed # 1A Standard Oil Com | 1 | .70 | | | 70¢ | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

I, [signature] representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☒ Approved ☐ Denied ATTENDANT SIGNATURE [signature]

SAN JUAN PRINTING 0818018B

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. 796778
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 8-19-20
DEL. TKT#.
GENERATOR: Elpaso CGP
BILL TO: Elpaso CGP
HAULING CO. Sierra
DRIVER: Vincent
(Print Full Name)
ORDERED BY: Steve
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 Federal #4 | 70 | 70 | | | 14 | |
| 2 | | Canada Mesa #2, K-27, Johnston Federal #6A, Lateral L-40 | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

I, _____ representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☒ Approved ☐ Denied ATTENDANT SIGNATURE _____

SAN JUAN PRINTING 0818018B

# BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

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

NO. 800456
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11-13-20
DEL. TKT#.
GENERATOR: CGP
BILL TO: CGP
HAULING CO. CGP
DRIVER: Sean
(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 | | Canada mesa #2 | 10 | 70 | | | 70 | |
| 2 | | k-27 LDO 2 miles federal #1 | 14 | | | | | '20 NOV 13 6:19PM |
| 3 | | Standard oil com #1 | | | | | | |
| 4 | | Knight #1, Gallegos Canyon Unit #124E | | | | | | |
| 5 | | GCU Com A #172E | | | | | | |

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

☑ Approved ☐ Denied ATTENDANT SIGNATURE

SAN JUAN PRINTING 2020 1973-1

# APPENDIX C

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-187960-1
Client Project/Site: ElPaso CGP Company - Canada Mesa #2

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

Attn: Steve Varsa

Marty Edwards

*Authorized for release by:*
*5/26/2020 4:17:42 PM*

Marty Edwards, Client Service Manager
(850)471-6227
marty.edwards@testamericainc.com

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Laboratory Job ID: 400-187960-1

# Table of Contents

# Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## 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 |
| 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) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| 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) |

# Case Narrative

Client: Stantec Consulting Services Inc Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## Job ID: 400-187960-1

### Laboratory: Eurofins TestAmerica, Pensacola

**Narrative**

**Job Narrative**
**400-187960-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 5/13/2020 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3º C.

**GC/MS VOA**
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8 (400-187960-3) and DUP-01 (400-187960-4). Elevated reporting limits (RLs) are provided.

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

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

# Detection Summary

Client: Stantec Consulting Services Inc Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## Client Sample ID: MW-3R Lab Sample ID: 400-187960-1

No Detections.

## Client Sample ID: MW-5 Lab Sample ID: 400-187960-2

No Detections.

## Client Sample ID: MW-8 Lab Sample ID: 400-187960-3

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 100 | | 20 | | ug/L | 20 | | 8260C | Total/NA |
| Ethylbenzene | 630 | | 20 | | ug/L | 20 | | 8260C | Total/NA |
| Xylenes, Total | 3900 | | 200 | | ug/L | 20 | | 8260C | Total/NA |

## Client Sample ID: DUP-01 Lab Sample ID: 400-187960-4

| Analyte | Result | Qualifier | RL | | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 60 | | 20 | | ug/L | 20 | | 8260C | Total/NA |
| Ethylbenzene | 440 | | 20 | | ug/L | 20 | | 8260C | Total/NA |
| Xylenes, Total | 2400 | | 200 | | ug/L | 20 | | 8260C | Total/NA |

## Client Sample ID: TB-01 Lab Sample ID: 400-187960-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

# Sample Summary

Client: Stantec Consulting Services Inc

Job ID: 400-187960-1

Project/Site: ElPaso CGP Company - Canada Mesa #2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 400-187960-1 | MW-3R | Water | 05/11/20 09:39 | 05/13/20 08:40 | |
| 400-187960-2 | MW-5 | Water | 05/11/20 10:19 | 05/13/20 08:40 | |
| 400-187960-3 | MW-8 | Water | 05/11/20 10:30 | 05/13/20 08:40 | |
| 400-187960-4 | DUP-01 | Water | 05/11/20 01:10 | 05/13/20 08:40 | |
| 400-187960-5 | TB-01 | Water | 05/11/20 07:10 | 05/13/20 08:40 | |

# Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

**Client Sample ID: MW-3R**
**Lab Sample ID: 400-187960-1**
**Date Collected: 05/11/20 09:39**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:58 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:58 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:58 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/22/20 09:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *78 - 118* | | *05/22/20 09:58* | *1* |
| *Dibromofluoromethane* | *103* | | *81 - 121* | | *05/22/20 09:58* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *05/22/20 09:58* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

**Client Sample ID: MW-5**
**Lab Sample ID: 400-187960-2**
**Date Collected: 05/11/20 10:19**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 10:24 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 10:24 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 10:24 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/22/20 10:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *78 - 118* | | *05/22/20 10:24* | *1* |
| *Dibromofluoromethane* | *103* | | *81 - 121* | | *05/22/20 10:24* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | | *05/22/20 10:24* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

**Client Sample ID: MW-8**
**Lab Sample ID: 400-187960-3**
**Date Collected: 05/11/20 10:30**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **100** | | 20 | | ug/L | | | 05/22/20 17:35 | 20 |
| Toluene | <20 | | 20 | | ug/L | | | 05/22/20 17:35 | 20 |
| **Ethylbenzene** | **630** | | 20 | | ug/L | | | 05/22/20 17:35 | 20 |
| **Xylenes, Total** | **3900** | | 200 | | ug/L | | | 05/22/20 17:35 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *78 - 118* | | *05/22/20 17:35* | *20* |
| *Dibromofluoromethane* | *102* | | *81 - 121* | | *05/22/20 17:35* | *20* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *05/22/20 17:35* | *20* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

**Client Sample ID: DUP-01**
**Lab Sample ID: 400-187960-4**
**Date Collected: 05/11/20 01:10**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **60** | | 20 | | ug/L | | | 05/22/20 18:02 | 20 |
| Toluene | <20 | | 20 | | ug/L | | | 05/22/20 18:02 | 20 |
| **Ethylbenzene** | **440** | | 20 | | ug/L | | | 05/22/20 18:02 | 20 |
| **Xylenes, Total** | **2400** | | 200 | | ug/L | | | 05/22/20 18:02 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *92* | | *78 - 118* | | *05/22/20 18:02* | *20* |
| *Dibromofluoromethane* | *104* | | *81 - 121* | | *05/22/20 18:02* | *20* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *05/22/20 18:02* | *20* |

# Client Sample Results

Client: Stantec Consulting Services Inc Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

**Client Sample ID: TB-01** **Lab Sample ID: 400-187960-5**
**Date Collected: 05/11/20 07:10** **Matrix: Water**
**Date Received: 05/13/20 08:40**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:33 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:33 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:33 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/22/20 09:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *78 - 118* | | *05/22/20 09:33* | *1* |
| *Dibromofluoromethane* | *102* | | *81 - 121* | | *05/22/20 09:33* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *05/22/20 09:33* | *1* |

# QC Association Summary

Client: Stantec Consulting Services Inc Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## GC/MS VOA

### Analysis Batch: 490095

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-187960-1 | MW-3R | Total/NA | Water | 8260C | |
| 400-187960-2 | MW-5 | Total/NA | Water | 8260C | |
| 400-187960-3 | MW-8 | Total/NA | Water | 8260C | |
| 400-187960-4 | DUP-01 | Total/NA | Water | 8260C | |
| 400-187960-5 | TB-01 | Total/NA | Water | 8260C | |
| MB 400-490095/4 | Method Blank | Total/NA | Water | 8260C | |
| LCS 400-490095/1002 | Lab Control Sample | Total/NA | Water | 8260C | |
| 400-187960-1 MS | MW-3R | Total/NA | Water | 8260C | |
| 400-187960-1 MSD | MW-3R | Total/NA | Water | 8260C | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

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

**Lab Sample ID: MB 400-490095/4**
**Client Sample ID: Method Blank**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 490095**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:09 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:09 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 05/22/20 09:09 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 05/22/20 09:09 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *78 - 118* | | *05/22/20 09:09* | *1* |
| *Dibromofluoromethane* | *102* | | *81 - 121* | | *05/22/20 09:09* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *05/22/20 09:09* | *1* |

**Lab Sample ID: LCS 400-490095/1002**
**Client Sample ID: Lab Control Sample**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 490095**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 50.0 | 50.9 | | ug/L | | 102 | 70 - 130 | | |
| Toluene | | | 50.0 | 49.0 | | ug/L | | 98 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 51.8 | | ug/L | | 104 | 70 - 130 | | |
| Xylenes, Total | | | 100 | 106 | | ug/L | | 106 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *78 - 118* |
| *Dibromofluoromethane* | *105* | | *81 - 121* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |

**Lab Sample ID: 400-187960-1 MS**
**Client Sample ID: MW-3R**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 490095**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 50.0 | 47.6 | | ug/L | | 95 | 56 - 142 | | |
| Toluene | <1.0 | | 50.0 | 45.0 | | ug/L | | 90 | 65 - 130 | | |
| Ethylbenzene | <1.0 | | 50.0 | 48.1 | | ug/L | | 96 | 58 - 131 | | |
| Xylenes, Total | <10 | | 100 | 97.7 | | ug/L | | 98 | 59 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *78 - 118* |
| *Dibromofluoromethane* | *104* | | *81 - 121* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |

**Lab Sample ID: 400-187960-1 MSD**
**Client Sample ID: MW-3R**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 490095**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 50.0 | 47.3 | | ug/L | | 95 | 56 - 142 | 1 | 30 |
| Toluene | <1.0 | | 50.0 | 43.7 | | ug/L | | 87 | 65 - 130 | 3 | 30 |
| Ethylbenzene | <1.0 | | 50.0 | 45.1 | | ug/L | | 90 | 58 - 131 | 7 | 30 |

# QC Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

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

**Lab Sample ID: 400-187960-1 MSD**
**Client Sample ID: MW-3R**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 490095**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | <10 | | 100 | 90.8 | | ug/L | | 91 | 59 - 130 | 7 | 30 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *78 - 118* |
| *Dibromofluoromethane* | *105* | | *81 - 121* |
| *Toluene-d8 (Surr)* | *93* | | *80 - 120* |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## Client Sample ID: MW-3R
**Lab Sample ID: 400-187960-1**
**Date Collected: 05/11/20 09:39**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

| 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 | 490095 | 05/22/20 09:58 | WPD | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

## Client Sample ID: MW-5
**Lab Sample ID: 400-187960-2**
**Date Collected: 05/11/20 10:19**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

| 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 | 490095 | 05/22/20 10:24 | WPD | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

## Client Sample ID: MW-8
**Lab Sample ID: 400-187960-3**
**Date Collected: 05/11/20 10:30**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 20 | 5 mL | 5 mL | 490095 | 05/22/20 17:35 | WPD | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

## Client Sample ID: DUP-01
**Lab Sample ID: 400-187960-4**
**Date Collected: 05/11/20 01:10**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260C | | 20 | 5 mL | 5 mL | 490095 | 05/22/20 18:02 | WPD | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

## Client Sample ID: TB-01
**Lab Sample ID: 400-187960-5**
**Date Collected: 05/11/20 07:10**
**Matrix: Water**
**Date Received: 05/13/20 08:40**

| 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 | 490095 | 05/22/20 09:33 | WPD | TAL PEN |
| | Instrument ID: CH_TAN | | | | | | | | | |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## Laboratory: Eurofins TestAmerica, Pensacola

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Alabama | State | 40150 | 07-01-20 |
| ANAB | ISO/IEC 17025 | L2471 | 02-23-23 |
| Arizona | State | AZ0710 | 01-13-21 |
| Arkansas DEQ | State | 88-0689 | 09-01-20 |
| California | State | 2510 | 07-01-20 |
| Florida | NELAP | E81010 | 06-30-20 |
| Georgia | State | E81010(FL) | 06-30-20 |
| Illinois | NELAP | 004586 | 10-09-20 |
| Iowa | State | 367 | 08-01-20 |
| Kansas | NELAP | E-10253 | 08-16-20 |
| Kentucky (UST) | State | 53 | 06-30-20 |
| Kentucky (WW) | State | KY98030 | 12-31-20 |
| Louisiana | NELAP | 30976 | 06-30-20 |
| Louisiana (DW) | State | LA017 | 12-31-20 |
| Maryland | State | 233 | 09-30-20 |
| Massachusetts | State | M-FL094 | 06-30-20 |
| Michigan | State | 9912 | 06-30-20 |
| Minnesota | NELAP | 012-999-481 | 12-31-20 |
| New Jersey | NELAP | FL006 | 06-30-20 |
| New York | NELAP | 12115 | 04-01-21 |
| North Carolina (WW/SW) | State | 314 | 12-31-20 |
| Oklahoma | State | 9810-186 | 08-31-20 |
| Pennsylvania | NELAP | 68-00467 | 01-31-21 |
| Rhode Island | State | LAO00307 | 12-30-20 |
| South Carolina | State | 96026002 | 06-30-20 |
| Tennessee | State | TN02907 | 06-30-20 |
| Texas | NELAP | T104704286 | 09-30-20 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-20 |
| USDA | US Federal Programs | P330-18-00148 | 05-17-21 |
| Virginia | NELAP | 460166 | 06-14-20 |
| Washington | State | C915 | 05-15-21 |
| West Virginia DEP | State | 136 | 06-30-20 |

# Method Summary

Client: Stantec Consulting Services Inc
Job ID: 400-187960-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

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

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

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information | Sampler: SRC | Lab PM: Edwards, Marty P | Carrier Tracking No(s): | COC No: 400-94226-34166.2 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 515-253-0830 | E-Mail: marty.edwards@testamericainc.com | | Page: Page 2 of 2 |
| Company: Stantec Consulting Services Inc | | | | Job #: |
| Address: 11153 Aurora Avenue | Due Date Requested: | | | |
| City: Des Moines | TAT Requested (days): STANDARD TAT | | | |
| State, Zip: IA, 50322-7904 | | | | |
| Phone: 303-291-2239(Tel) | PO #: See Project Notes | | | |
| Email: steve.varsa@stantec.com | WO #: | | | |
| Project Name: Canada Mesa #2.00 | Project #: 40005479 | | | |
| Site: | SSOW#: | | | |

Analysis Requested

Preservation Codes:

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

Other:

400-187960 COC

W-ERH-STN-04-10-2020
SAM-01 Canada Mesa #2

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - (MOD) BTEX 8260 | 8260C - (MOD) BTEX 8260 (unpreserved) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | | |
| MW-3R | 5/11/2020 | 0934 | G | Water | N | N | 3 | 0 | | |
| MW-5 | 5/11/2020 | 1019 | G | Water | N | N | 3 | 0 | | |
| MW-8 | 5/11/2020 | 1030 | G | Water | N | N | 3 | 0 | | |
| DUP-01 | 5/11/2020 | 0110 | G | Water | N | N | 3 | 0 | | Blind Dup |
| TB-01 | 5/11/2020 | 0710 | G | Water | N | N | 2 | 0 | | Trip Blank |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |

SRC SRC

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

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

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

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx | |
|---|---|---|---|---|
| Relinquished by: Sam R Clay | Date/Time: 5/12/2020 0710 | Company: Stantec | Received by: Morgan Hricken | Date/Time: 5-13-2020 840 Company: TAMEN |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.3°C IR9

Ver: 01/16/2019

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-187960-1

**Login Number: 187960** **List Source: Eurofins TestAmerica, Pensacola**

**List Number: 1**

**Creator: Hinrichsen, Megan E**

| 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 | 0.3°C IR-9 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

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

Laboratory Job ID: 400-195886-1
Client Project/Site: ElPaso CGP Company - Canada Mesa #2

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

Attn: Steve Varsa

Marty Edwards

*Authorized for release by:*
*11/30/2020 8:00:57 PM*

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

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Laboratory Job ID: 400-195886-1

# Table of Contents

# Definitions/Glossary

Client: Stantec Consulting Services Inc Job ID: 400-195886-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

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

# Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

## Job ID: 400-195886-1

### Laboratory: Eurofins TestAmerica, Pensacola

**Narrative**

**Job Narrative**
**400-195886-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 11/14/2020 8:29 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2º C.

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

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

# Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

## Client Sample ID: TB-01 — Lab Sample ID: 400-195886-1

No Detections.

## Client Sample ID: DUP-01 — Lab Sample ID: 400-195886-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 1200 | | 100 | 40 | ug/L | 100 | | 8260C | Total/NA |
| Xylenes, Total | 9800 | | 1000 | 140 | ug/L | 100 | | 8260C | Total/NA |

## Client Sample ID: MW-3R — Lab Sample ID: 400-195886-3

No Detections.

## Client Sample ID: MW-5 — Lab Sample ID: 400-195886-4

No Detections.

## Client Sample ID: MW-8 — Lab Sample ID: 400-195886-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 30 | J | 100 | 20 | ug/L | 100 | | 8260C | Total/NA |
| Ethylbenzene | 1500 | | 100 | 40 | ug/L | 100 | | 8260C | Total/NA |
| Xylenes, Total | 13000 | | 1000 | 140 | ug/L | 100 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

# Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 400-195886-1 | TB-01 | Water | 11/12/20 07:00 | 11/14/20 08:29 | |
| 400-195886-2 | DUP-01 | Water | 11/12/20 09:38 | 11/14/20 08:29 | |
| 400-195886-3 | MW-3R | Water | 11/12/20 09:22 | 11/14/20 08:29 | |
| 400-195886-4 | MW-5 | Water | 11/12/20 09:30 | 11/14/20 08:29 | |
| 400-195886-5 | MW-8 | Water | 11/12/20 09:08 | 11/14/20 08:29 | |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

## Client Sample ID: TB-01

**Date Collected: 11/12/20 07:00**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-1

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 16:10 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 16:10 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 16:10 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/25/20 16:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *80 - 120* | | *11/25/20 16:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *11/25/20 16:10* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *80 - 120* | | *11/25/20 16:10* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *11/25/20 16:10* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

## Client Sample ID: DUP-01

**Date Collected: 11/12/20 09:38**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-2

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <20 | | 100 | 20 | ug/L | | | 11/25/20 20:33 | 100 |
| **Ethylbenzene** | **1200** | | 100 | 40 | ug/L | | | 11/25/20 20:33 | 100 |
| Toluene | <20 | | 100 | 20 | ug/L | | | 11/25/20 20:33 | 100 |
| **Xylenes, Total** | **9800** | | 1000 | 140 | ug/L | | | 11/25/20 20:33 | 100 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *80 - 120* | | *11/25/20 20:33* | *100* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | | *11/25/20 20:33* | *100* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 120* | | *11/25/20 20:33* | *100* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *11/25/20 20:33* | *100* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

## Client Sample ID: MW-3R

**Date Collected: 11/12/20 09:22**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-3

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 20:55 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 20:55 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 20:55 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/25/20 20:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *80 - 120* | | *11/25/20 20:55* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *80 - 120* | | *11/25/20 20:55* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 120* | | *11/25/20 20:55* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *11/25/20 20:55* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

## Client Sample ID: MW-5

**Date Collected: 11/12/20 09:30**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-4

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 21:17 | 1 |
| Ethylbenzene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 21:17 | 1 |
| Toluene | <1.0 | | 1.0 | | ug/L | | | 11/25/20 21:17 | 1 |
| Xylenes, Total | <10 | | 10 | | ug/L | | | 11/25/20 21:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *11/25/20 21:17* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *80 - 120* | | *11/25/20 21:17* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 120* | | *11/25/20 21:17* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *80 - 120* | | *11/25/20 21:17* | *1* |

# Client Sample Results

Client: Stantec Consulting Services Inc
Job ID: 400-195886-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## Client Sample ID: MW-8
**Lab Sample ID: 400-195886-5**
**Date Collected: 11/12/20 09:08**
**Matrix: Water**
**Date Received: 11/14/20 08:29**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **30** | **J** | 100 | 20 | ug/L | | | 11/25/20 21:39 | 100 |
| **Ethylbenzene** | **1500** | | 100 | 40 | ug/L | | | 11/25/20 21:39 | 100 |
| Toluene | <20 | | 100 | 20 | ug/L | | | 11/25/20 21:39 | 100 |
| **Xylenes, Total** | **13000** | | 1000 | 140 | ug/L | | | 11/25/20 21:39 | 100 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *80 - 120* | | *11/25/20 21:39* | *100* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* | | *11/25/20 21:39* | *100* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 120* | | *11/25/20 21:39* | *100* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *11/25/20 21:39* | *100* |

# QC Association Summary

Client: Stantec Consulting Services Inc Job ID: 400-195886-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## GC/MS VOA

### Analysis Batch: 70471

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 400-195886-1 | TB-01 | Total/NA | Water | 8260C | |
| 400-195886-2 | DUP-01 | Total/NA | Water | 8260C | |
| 400-195886-3 | MW-3R | Total/NA | Water | 8260C | |
| 400-195886-4 | MW-5 | Total/NA | Water | 8260C | |
| 400-195886-5 | MW-8 | Total/NA | Water | 8260C | |
| MB 410-70471/7 | Method Blank | Total/NA | Water | 8260C | |
| LCS 410-70471/4 | Lab Control Sample | Total/NA | Water | 8260C | |
| LCSD 410-70471/5 | Lab Control Sample Dup | Total/NA | Water | 8260C | |

# QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

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

**Lab Sample ID: MB 410-70471/7**
**Matrix: Water**
**Analysis Batch: 70471**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.20 | | 1.0 | 0.20 | ug/L | | | 11/25/20 13:52 | 1 |
| Ethylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 11/25/20 13:52 | 1 |
| Toluene | <0.20 | | 1.0 | 0.20 | ug/L | | | 11/25/20 13:52 | 1 |
| Xylenes, Total | <1.4 | | 10 | 1.4 | ug/L | | | 11/25/20 13:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* | | *11/25/20 13:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *80 - 120* | | *11/25/20 13:52* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *80 - 120* | | *11/25/20 13:52* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *11/25/20 13:52* | *1* |

**Lab Sample ID: LCS 410-70471/4**
**Matrix: Water**
**Analysis Batch: 70471**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | 20.2 | | ug/L | | 101 | 80 - 120 |
| Ethylbenzene | 20.0 | 21.0 | | ug/L | | 105 | 80 - 120 |
| Toluene | 20.0 | 20.9 | | ug/L | | 104 | 80 - 120 |
| Xylenes, Total | 60.0 | 64.3 | | ug/L | | 107 | 80 - 120 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

**Lab Sample ID: LCSD 410-70471/5**
**Matrix: Water**
**Analysis Batch: 70471**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 20.0 | 20.4 | | ug/L | | 102 | 80 - 120 | 1 | 30 |
| Ethylbenzene | 20.0 | 20.9 | | ug/L | | 104 | 80 - 120 | 0 | 30 |
| Toluene | 20.0 | 20.7 | | ug/L | | 103 | 80 - 120 | 1 | 30 |
| Xylenes, Total | 60.0 | 63.8 | | ug/L | | 106 | 80 - 120 | 1 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *80 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

# Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

## Client Sample ID: TB-01
**Date Collected: 11/12/20 07:00**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-1
**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 | 70471 | 11/25/20 16:10 | NSK7 | ELLE |
| | Instrument ID: 9915 | | | | | | | | | |

## Client Sample ID: DUP-01
**Date Collected: 11/12/20 09:38**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-2
**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 | | 100 | 5 mL | 5 mL | 70471 | 11/25/20 20:33 | NSK7 | ELLE |
| | Instrument ID: 9915 | | | | | | | | | |

## Client Sample ID: MW-3R
**Date Collected: 11/12/20 09:22**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-3
**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 | 70471 | 11/25/20 20:55 | NSK7 | ELLE |
| | Instrument ID: 9915 | | | | | | | | | |

## Client Sample ID: MW-5
**Date Collected: 11/12/20 09:30**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-4
**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 | 70471 | 11/25/20 21:17 | NSK7 | ELLE |
| | Instrument ID: 9915 | | | | | | | | | |

## Client Sample ID: MW-8
**Date Collected: 11/12/20 09:08**
**Date Received: 11/14/20 08:29**

## Lab Sample ID: 400-195886-5
**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 | | 100 | 5 mL | 5 mL | 70471 | 11/25/20 21:39 | NSK7 | ELLE |
| | Instrument ID: 9915 | | | | | | | | | |

**Laboratory References:**
ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc Job ID: 400-195886-1
Project/Site: ElPaso CGP Company - Canada Mesa #2

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| A2LA | Dept. of Defense ELAP | 1.01 | 11-30-20 |
| Alaska | State | PA00009 | 06-30-21 |
| Alaska (UST) | State | 17-027 | 01-31-21 |
| Arizona | State | AZ0780 | 03-12-21 |
| Arkansas DEQ | State | 19-053-0 | 08-09-21 |
| California | State | 2792 | 01-31-21 |
| Colorado | State | PA00009 | 06-30-21 |
| Connecticut | State | PH-0746 | 12-26-20 |
| Delaware (DW) | State | N/A | 01-31-21 |
| Florida | NELAP | E87997 | 07-01-21 |
| Hawaii | State | N/A | 01-31-21 |
| Illinois | NELAP | 004559 | 01-31-21 |
| Iowa | State | 361 | 03-02-22 |
| Kansas | NELAP | E-10151 | 10-31-21 |
| Kentucky (DW) | State | KY90088 | 12-31-20 |
| Kentucky (UST) | State | 1.01 | 11-30-20 |
| Kentucky (WW) | State | KY90088 | 12-31-20 |
| Louisiana | NELAP | 02055 | 06-30-21 |
| Maine | State | 2019012 | 03-12-21 |
| Maryland | State | 100 | 06-30-21 |
| Massachusetts | State | M-PA009 | 06-30-21 |
| Michigan | State | 9930 | 01-31-21 |
| Minnesota | NELAP | 042-999-487 | 12-31-21 |
| Missouri | State | 450 | 01-31-22 |
| Montana (DW) | State | 0098 | 01-01-22 |
| Nebraska | State | NE-OS-32-17 | 01-31-20 * |
| Nevada | State | PA000092019-3 | 07-31-21 |
| New Hampshire | NELAP | 273019 | 01-10-21 |
| New Jersey | NELAP | PA011 | 06-30-21 |
| New York | NELAP | 10670 | 04-01-21 |
| North Carolina (DW) | State | 42705 | 07-31-21 |
| North Carolina (WW/SW) | State | 521 | 12-31-20 |
| North Dakota | State | R-205 | 01-31-20 * |
| Oklahoma | NELAP | R-205 | 02-01-21 |
| Oregon | NELAP | PA200001-018 | 09-12-21 |
| PALA | Canada | 1978 | 05-08-21 |
| Pennsylvania | NELAP | 36-00037 | 01-31-21 |
| Rhode Island | State | LAO00338 | 12-30-20 |
| South Carolina | State | 89002002 | 01-31-21 |
| Tennessee | State | 02838 | 01-31-21 |
| Texas | NELAP | T104704194-20-38 | 08-31-21 |
| Utah | NELAP | PA000092019-16 | 02-28-21 |
| Vermont | State | VT - 36037 | 10-29-21 |
| Virginia | NELAP | 10561 | 06-14-21 |
| Washington | State | C457 | 04-11-21 |
| West Virginia (DW) | State | 9906 C | 12-31-20 |
| West Virginia DEP | State | 055 | 12-31-20 |
| Wyoming | State | 8TMS-L | 01-07-21 |
| Wyoming (UST) | A2LA | 1.01 | 11-30-20 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Stantec Consulting Services Inc
Project/Site: ElPaso CGP Company - Canada Mesa #2

Job ID: 400-195886-1

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

**Protocol References:**

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

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

# Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins Environment Testing America

400-195886 COC

| Client Information | Sampler: SRC | Lab PM: Edwards, Marty P | Carrier Tracking No(s): | COC No: 400-97386-35230.1 |
|---|---|---|---|---|
| Client Contact: Steve Varsa | Phone: 913 980 0281 | E-Mail: Marty.Edwards@Eurofinset.com | | Page: Page 1 of 2 |
| Company: Stantec Consulting Services Inc | | | | Job #: |

| Address: 11153 Aurora Avenue | Due Date Requested: | Analysis Requested |
|---|---|---|
| City: Des Moines | TAT Requested (days): STD | |
| State, Zip: IA, 50322-7904 | | |
| Phone: 303-291-2239(Tel) | PO #: See Project Notes | |
| Email: steve.varsa@stantec.com | WO #: | |
| Project Name: Canada Mesa #2.00 | Project #: 40005479 | |
| Site: CANADA MESA #2.00 | SSOW#: | |

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

W-ERG-STN-11-02-2020
SAH-01 CANADAMESA H2

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260C - (MOD) BTEX 8260 (A) | 8260C - (MOD) BTEX 8260 (unpreserved) (N) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | A | N | | |
| TB-01 | 11/12/2020 | 0700 | G | Water | | | 2 | | 2 | Trip Blank |
| DUP-01 | 11/12/2020 | 0938 | G | Water | | | 3 | | 3 | BLIND DUP. |
| MW-3R | 11/12/2020 | 0922 | G | Water | | | 3 | | 3 | |
| MW-5 | 11/12/2020 | 0930 | G | Water | | | 3 | | 3 | |
| MW-8 | 11/12/2020 | 0908 | G | Water | | | 3 | | 3 | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |
| | | | | Water | | | | | | |

SAH SAH

*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: Fedex |
|---|---|---|---|

| Relinquished by: Sean R Clancy | Date/Time: 11/13/2020 0700 | Company: STN | Received by: | Date/Time: 11-14-20 0829 | Company: TAPEN |
|---|---|---|---|---|---|
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.2°C IR-9

Ver: 01/16/2019

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

# Chain of Custody Record

eurofins | Environment Testing America

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: Edwards, Marty P | Carrier Tracking No(s): | COC No: 400-256643.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Marty.Edwards@Eurofinset.com | State of Origin: New Mexico | Page: Page 1 of 1 |
| Company: Eurofins Lancaster Laboratories Env LLC | | Accreditations Required (See note): | | Job #: 400-195886-1 |
| Address: 2425 New Holland Pike, , | Due Date Requested: 11/27/2020 | | | |
| City: Lancaster | TAT Requested (days): | | | |
| State, Zip: PA, 17601 | | | | |
| Phone: 717-656-2300(Tel) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: ElPaso CGP Company - Canada Mesa #2 | Project #: 40005479 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

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

| Sample Identification - Client ID (Lab ID) | 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/5030C BTEX Volatiles (Total Xylenes) | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | |
| TB-01 (400-195886-1) | 11/12/20 | 07:00 Mountain | | Water | | | X | 2 | |
| DUP-01 (400-195886-2) | 11/12/20 | 09:38 Mountain | | Water | | | X | 3 | |
| MW-3R (400-195886-3) | 11/12/20 | 09:22 Mountain | | Water | | | X | 3 | |
| MW-5 (400-195886-4) | 11/12/20 | 09:30 Mountain | | Water | | | X | 3 | |
| MW-8 (400-195886-5) | 11/12/20 | 09:08 Mountain | | Water | | | X | 3 | |

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

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

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Kathy Queen | 11-24-20 1530 | ETA | | | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: 11/25/20 11:54 | Company ELE |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.2 |
|---|---|---|

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Ver: 11/01/2020

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-195886-1

**Login Number: 195886** **List Source: Eurofins TestAmerica, Pensacola**
**List Number: 1**
**Creator: Conrady, Hank W**

| 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 | 0.2°C IR-9 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-195886-1

**Login Number: 195886**
**List Number: 2**
**Creator: Rivera-Santa, Julissa**

**List Source: Eurofins Lancaster Laboratories Env**
**List Creation: 11/25/20 12:39 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable (</=6C, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV: Container Temperature is acceptable (</=6C, not frozen). | N/A | |
| WV: Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | 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 | |
| There is sufficient vol. for all requested analyses. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | N/A | |
| Is the Field Sampler's name present on COC? | False | Received project as a subcontract. |
| Sample Preservation Verified. | N/A | |
| Residual Chlorine Checked. | N/A | |
| Sample custody seals are intact. | N/A | |

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

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

CONDITIONS

Action 23580

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| El Paso Natural Gas Company, L.L.C<br>1001 Louisiana Street<br>Houston, TX 77002 | 7046 |
| | Action Number:<br>23580 |
| | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| nvelez | Accepted for the record. See app IDs 43912, 92280, & 94004 for most updated status. | 10/28/2022 |