

# 2018 ANNUAL GROUNDWATER REPORT

**Lateral L-40 Line Drip**  
**NMOCD CASE#: 3RP-212-0**  
**Meter Code: LD174**  
**T28N, R4W, Sec13, Unit H**

---

## SITE DETAILS

**Site Location:** Latitude: 36.659672 N, Longitude: -107.194520 W  
**Land Type:** Federal  
**Operator:** Enterprise (Pipeline)

## SITE BACKGROUND

Environmental Remediation activities at Lateral L-40 Line Drip (Site) are managed pursuant to the procedures set forth in the document entitled, "*Remediation Plan for Groundwater Encountered during Pit Closure Activities*" (Remediation Plan, El Paso Natural Gas Company / El Paso Field Services Company, 1995). This Remediation Plan was conditionally approved by the New Mexico Oil Conservation Division (NMOCD) in correspondence dated November 30, 1995; and the NMOCD approval conditions were adopted into El Paso CGP Company (EPCPG) program methods. The Site is not active but continues to be crossed by a pipeline operated by Enterprise.

The Site is located on Federal land. An initial site assessment was completed in January 1995, and an excavation to approximately 12 feet below ground surface (bgs) was completed in January of 1995, removing approximately 60 cubic yards (cy) of soil. Various site investigations have occurred since 1995. A monitoring well was installed in 1995 (MW-1), two soil borings were advanced in 1999, and one additional soil boring (SB-1) was advanced in 2016. Additional monitoring wells were installed in 2016 (MW-2, MW-3, MW-4, MW-5) and 2018 (MW-6, MW-7, MW-8, MW-9, MW-10). Soil vapor extraction (SVE) test wells were installed in 2018 (SVE-1, SVE-2, SVE-3). Also, SVE feasibility testing was conducted in October 2018. Historically, free product was observed and recovered from MW-1, but no free product has been noted since 2003. Currently, groundwater sampling is conducted on a semi-annual basis.

## MONITORING WELL INSTALLATION ACTIVITIES

Monitoring well and test well locations were staked for permitting and utility locating purposes in May 2018. The well advancement and installation activities were completed in accordance with the September 19, 2018 *Work Plan for 2018 Well Installation and SVE Feasibility Testing Activities*, subsequently approved by the NMOCD. The NMOCD was notified of the start of the well installation activities via electronic mail (email) on September 20, 2018 (Appendix A).

Five monitoring wells (MW-6, MW-7, MW-8, MW-9, and MW-10) and three soil vapor extraction wells (SVE-1, SVE-2, and SVE-3) were advanced and installed in October 2018, to further characterize the extent of the dissolved-phase hydrocarbons at the Site and prepare for the SVE feasibility tests. Ground surface and casing elevations of the new monitoring wells were subsequently surveyed by a licensed surveyor using state plane coordinates.

Monitoring wells were constructed of 2-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.010-inch, continuous, factory-slotted PVC screen. The five monitoring wells were installed with 20 foot well screens, set from approximately 30 to 50 feet bgs. The monitoring wells were installed at depths that bisected the field-observed or expected water table. A 3-foot seal of bentonite chips was placed above the sand pack and hydrated, and the remaining annular space filled with bentonite grout. The five monitoring wells were completed as stick-up wells with locking protective casings and a concrete surface

## 2018 ANNUAL GROUNDWATER REPORT

**Lateral L-40 Line Drip**  
**NMOCD CASE#: 3RP-212-0**  
**Meter Code: LD174**  
**T28N, R4W, Sec13, Unit H**

---

completion. Four protective bollards were installed around each new monitoring well finished with a stick-up completion. Borehole logs and well construction diagrams are provided in Appendix B.

Soil vapor extraction wells were constructed of 4-inch-diameter, Schedule 40 polyvinyl chloride (PVC), with 0.020-inch, continuous, factory-slotted PVC screen. The three SVE test wells were advanced to auger refusal and installed with 10 foot well screens. Based on observed conditions during advancement, the well screen for SVE-1 was set from approximately 20 to 30 bgs, and the well screens for SVE-2 and SVE-3 were set at approximately 12 to 22 feet bgs. Each new SVE test well was finished with a stick-up completion, and two protective bollards were installed around each test well. Borehole logs and well construction diagrams are provided in Appendix B.

During advancement of each monitoring and test well completed in October 2018, one soil sample, at a minimum, was retained and placed in a 4-ounce jar for laboratory analysis. Soil samples were collected from MW-7, MW-8, MW-9, and MW-10 from the interval with the highest field screening reading. Two soil samples were collected from MW-6, one from above the sandstone encountered at about 21 feet bgs and the second from the 32 to 33-foot interval. Two soil samples were collected at SVE-1 at the two intervals with the highest field screening reading within the well-screened interval. At SVE-2 and SVE-3, a soil sample was collected from the interval with the highest field screening reading and from the interval near the bottom of the boring where hydrocarbon staining and/or odor was noted along with a high field screening reading. Retained sample jars were stored in an ice-filled cooler and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida (TestAmerica). The soil samples were analyzed for the presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) according to United States Environmental Protection Agency (EPA) Method SW846 8021B; gasoline range organics, diesel range organics, and motor oil range organics using EPA Method 8015B; and chloride according to EPA Method 325.2. The soil sample analytical reports are provided in Appendix C.

Monitoring well development was performed using a well swab and down-hole pump until visibly clear groundwater was observed or the well went dry. Monitoring wells MW-8 and MW-10 went dry during development, and MW-6 did not contain measurable water immediately following installation. Development and decontamination water were containerized and transported to Basin Disposal, Inc. (Basin) in Bloomfield, NM for disposal. Soil cuttings were drummed and staged on-site for later removal and disposal at Envirotech, Inc. (Envirotech), located south of Bloomfield, NM. Soil and water disposal documents are contained in Appendices D and E, respectively.

### **SOIL VAPOR EXTRACTION FEASIBILITY TESTING**

In accordance with the September 19, 2018 *Work Plan for 2018 Well Installation and SVE Feasibility Testing Activities*, SVE feasibility testing activities were conducted at the Site on October 20, 2018 by AcuVac Remediation, LLC, of Houston, Texas (AcuVac). The NMOCD was notified of the start date for the feasibility testing activities on October 16, 2018 (Appendix A). Test wells SVE-1, SVE-2, and SVE-3, and monitoring well MW-1 were used as extraction wells for the SVE feasibility testing.

The intent of SVE is to reduce concentrations of VOCs within the vadose zone through extraction and volatilization. The SVE feasibility testing was conducted using the AcuVac I-6 System; the vacuum extraction portion of the AcuVac system consists of a vacuum pump powered by an internal combustion engine (ICE). The vacuum pump was connected to the extraction well via hose and induced a vacuum on the well. Recovered vapors from the SVE blower were combusted using AcuVac's ICE system.

# **2018 ANNUAL GROUNDWATER REPORT**

**Lateral L-40 Line Drip**  
**NMOCD CASE#: 3RP-212-0**  
**Meter Code: LD174**  
**T28N, R4W, Sec13, Unit H**

---

SVE feasibility testing was conducted on test wells SVE-1, SVE-2, SVE-3 and monitoring well MW-1 to evaluate pressure and flow rate response. SVE-1, SVE-2, and SVE-3 were installed above competent bedrock, in an area where hydrocarbons have been detected in the vadose zone. MW-1 was utilized as an extraction well due to the unsaturated portion of the well screen being situated in competent bedrock. The SVE tests involved inducing various vacuum pressures at the extraction well over a set time interval. During testing, flow rate, water level, carbon dioxide, oxygen, carbon monoxide, hydrogen sulfide, and hydrocarbon concentration data were collected to evaluate performance. Pressure/vacuum influence was also monitored at select monitoring wells of varying distances from the test well to provide data for evaluating the radius of influence. Based on the data collected during the feasibility test, SVE appears viable at the Site.

AcuVac's reports summarizing the SVE feasibility testing activities at the Site are presented as Appendix F. No wastes were generated during the feasibility testing activities that required off-site disposal.

## **GROUNDWATER SAMPLING ACTIVITIES**

Pursuant to the Remediation Plan, Stantec Consulting Services Inc. (Stantec) provided field work notifications via email to the NMOCD on May 9, 2018 and October 23, 2018, prior to initiating groundwater sampling activities at the Site. Copies of the 2018 NMOCD notifications are provided in Appendix A.

On May 18, 2018 and November 1, 2018, water levels were gauged at MW-1 through MW-5; in November water levels were also gauged at monitoring wells MW-6 through MW-10. Monitoring well MW-6 was found to be dry on November 1, 2018. Groundwater samples were collected from the remaining selected monitoring wells using HydraSleeve™ (HydraSleeve) no-purge groundwater sampling devices. The HydraSleeves were set during the previous sampling event, or following well development for newly-installed wells, 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 termination depth of the monitoring wells.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice, and shipped under standard chain-of-custody protocols to TestAmerica Laboratories, Inc. in Pensacola, Florida where they were analyzed for BTEX. One laboratory-supplied trip blank was also collected during each groundwater sampling event. As requested by the NMOCD on March 20, 2018, EPCGP began collecting blind field duplicates of groundwater samples, as clarified in a March 21, 2018, email to NMOCD. The groundwater samples, field duplicates, and trip blanks were analyzed using EPA Method 8260.

The unused sample water was combined in a waste container and taken to Basin for disposal. Waste disposal documentation is included as Appendix E.

## **SUMMARY TABLES**

Historic groundwater analytical results and well gauging data are summarized in Tables 1 and 2, respectively. Soil analytical results are summarized in Table 3.

# **2018 ANNUAL GROUNDWATER REPORT**

**Lateral L-40 Line Drip**  
**NMOCD CASE#: 3RP-212-0**  
**Meter Code: LD174**  
**T28N, R4W, Sec13, Unit H**

---

## **SITE MAPS**

Groundwater analytical maps (Figures 1 and 3) and groundwater elevation contour maps (Figures 2 and 4) summarize results of the 2018 groundwater sampling and gauging events. The soil analytical map (Figure 5) summarizes the results of the soil sampling activities.

## **ANALYTICAL LAB REPORTS**

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

## **SOIL RESULTS**

- Soil samples were collected from the borings advanced for monitoring wells MW-6, MW-7, MW-8, MW-9, and MW-10; and from test wells SVE-1, SVE-2, and SVE-3.
- Concentrations of benzene were not detected above the applicable benzene NMOCD soil closure criteria in soil samples collected from MW-6, MW-7, MW-8, MW-9, MW-10, SVE-1, SVE-2, and SVE-3.
- Concentrations of total BTEX were below the applicable NMOCD soil closure criteria in soil samples collected from MW-6, MW-7, MW-8, MW-9, MW-10, SVE-1, SVE-2, and SVE-3.
- Concentrations of TPH were above the applicable NMOCD soil closure criteria in soil sample SVE-2 (15-16) and were below applicable NMOCD criteria in the other soil samples collected in 2018.
- Concentrations of chloride were below the applicable NMOCD soil closure criteria in the soil samples collected from MW-6, MW-7, MW-8, MW-9, MW-10, SVE-1, SVE-2, and SVE-3.

## **GROUNDWATER RESULTS**

- Monitoring well MW-6 was dry during the November sampling event and therefore was not sampled.
- Groundwater elevations indicate a general flow direction to the south southwest (see Figures 2 and 4).
- Groundwater samples collected in May 2018 from monitoring wells MW-1 through MW-5, exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard (10 micrograms per liter [ $\mu\text{g/L}$ ]) for benzene in groundwater. Benzene concentrations also exceeded the NMWQCC standard in November 2018 at MW-1, MW-2, and MW-5. Benzene concentrations were either not detected or detected below the standard in the remaining collected groundwater samples.
- Concentrations of toluene were either below the NMWQCC standard (750  $\mu\text{g/L}$ ) or not detected at the site monitoring wells sampled in 2018.
- Concentrations of ethylbenzene were either below the NMWQCC standard (750  $\mu\text{g/L}$ ) or not detected at the site monitoring wells sampled in 2018.

## **2018 ANNUAL GROUNDWATER REPORT**

**Lateral L-40 Line Drip**  
**NMOCD CASE#: 3RP-212-0**  
**Meter Code: LD174**  
**T28N, R4W, Sec13, Unit H**

---

- Groundwater samples collected in 2018 from MW-1 exceeded the NMWQCC standard (620 µg/L) for total xylenes in groundwater. At MW-5, the total xylene concentration exceeded the NMWQCC standard in the primary sample collected in November but was below the standard in the duplicate sample. Total xylenes were either below the NMWQCC standard or not detected at the remaining site monitoring wells sampled in 2018.
- A field duplicate was collected from MW-3 in May 2018 and from MW-5 in October. For each sampling event, no significant differences were noted between the primary and duplicate sample results.
- Detectable concentrations of BTEX constituents were not reported in the trip blanks collected and analyzed as part of the 2018 groundwater monitoring events.

### **PLANNED FUTURE ACTIVITIES**

As agreed during the February 6, 2019, meeting with NMOCD, EPCGP, and Stantec, semi-annual groundwater monitoring is to continue in 2019. Groundwater samples will be collected from selected monitoring wells not containing free product. A field duplicate and trip blank will also be collected during each groundwater sampling event. The groundwater samples, field duplicate, and trip blank will be analyzed for BTEX constituents using EPA Method 8260.

Groundwater has been delineated within the USFS permit area, and 2018 SVE feasibility tests indicate SVE as a viable remedial option for the Site. A goshawk survey is anticipated to be conducted in the spring of 2019 to ascertain if there will be wildlife restrictions. Additional soil assessment is planned for the summer of 2019, but implementation is contingent on the goshawk survey results. A work plan to complete soil assessment activities in 2019 will be submitted under separate cover for NMOCD approval.

The activities completed in 2019 and their results will be summarized in the 2019 Annual Report, completed for submittal in early 2020.

## **TABLES**

TABLE 1 – GROUNDWATER ANALYTICAL RESULTS

TABLE 2 – GROUNDWATER ELEVATION RESULTS

TABLE 3 – SOIL ANALYTICAL RESULTS

**TABLE 1 - GROUNDWATER ANALYTICAL RESULTS**

| Lat. L-40 Line Drip |          |                   |                   |                        |                         |
|---------------------|----------|-------------------|-------------------|------------------------|-------------------------|
| Location            | Date     | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total Xylenes<br>(µg/L) |
| NMWQCC Standards:   |          | 10                | 750               | 750                    | 620                     |
| MW-1                | 09/26/95 | 121               | 218               | 7.4                    | 75.1                    |
| MW-1                | 11/11/96 | 12000             | 20400             | 612                    | 6075                    |
| MW-1                | 03/31/97 | 11100             | 24700             | 702                    | 7440                    |
| MW-1                | 05/09/97 | 12900             | 22900             | 761                    | 7730                    |
| MW-1                | 11/06/00 | 8.2               | <0.5              | 15                     | 6.9                     |
| MW-1                | 04/17/08 | 396               | <50               | 484                    | 2770                    |
| MW-1                | 04/08/09 | 387               | 7.9 J             | 466                    | 2680                    |
| MW-1                | 06/03/10 | 272               | <50               | 384                    | 2240                    |
| MW-1                | 05/03/11 | 115               | 4.8               | 430                    | 2160                    |
| MW-1                | 05/09/12 | 302               | 10.2              | 404                    | 1830                    |
| MW-1                | 06/09/13 | 150               | 13                | 330                    | 2800                    |
| MW-1                | 09/11/13 | 160               | 330               | 15 J                   | 2600                    |
| MW-1                | 12/14/13 | 160               | 15                | 320                    | 2500                    |
| MW-1                | 04/06/14 | 150               | 30 J              | 400                    | 2900                    |
| MW-1                | 10/26/14 | 120               | 9.9 J             | 350                    | 2000                    |
| MW-1                | 06/01/15 | 83                | 12 J              | 250                    | 1500                    |
| MW-1                | 11/23/15 | 150               | <100              | 360                    | 2100                    |
| MW-1                | 04/19/16 | 100               | <25               | 300                    | 1900                    |
| MW-1                | 10/16/16 | 180               | <50               | 410                    | 2500                    |
| MW-1                | 06/11/17 | 120               | <50               | 350                    | 2000                    |
| MW-1                | 11/11/17 | 120               | <10               | 370                    | 2000                    |
| MW-1                | 05/18/18 | 120               | <10               | 280                    | 1500                    |
| MW-1                | 11/01/18 | 190               | 48                | 150                    | 1200                    |
|                     |          |                   |                   |                        |                         |
| MW-2                | 10/16/16 | 180               | 430               | 17                     | 150                     |
| MW-2                | 06/11/17 | 2300              | 21                | 11                     | 180                     |
| MW-2                | 11/11/17 | 1900              | 230               | 13                     | 280                     |
| MW-2                | 05/18/18 | 1100              | 33                | <10                    | <100                    |
| MW-2                | 11/01/18 | 130               | 25                | <1.0                   | 13                      |
|                     |          |                   |                   |                        |                         |
| MW-3                | 10/16/16 | 3.4               | <5.0              | <1.0                   | <5.0                    |
| MW-3                | 06/11/17 | 130               | <5.0              | <1.0                   | <5.0                    |
| MW-3                | 11/11/17 | 170               | <1.0              | <1.0                   | <10                     |
| MW-3                | 05/18/18 | 130               | 23                | <1.0                   | <10                     |
| DP-01(MW-3)*        | 05/18/18 | 140               | 30                | <1.0                   | <10                     |
| MW-3                | 11/01/18 | <1.0              | <1.0              | <1.0                   | <10                     |
|                     |          |                   |                   |                        |                         |
| MW-4                | 10/16/16 | 8.7               | 15                | <1.0                   | 6.1                     |
| MW-4                | 06/11/17 | 47                | 6.8               | <1.0                   | <5.0                    |
| MW-4                | 11/11/17 | 26                | <1.0              | <1.0                   | <10                     |

**TABLE 1 - GROUNDWATER ANALYTICAL RESULTS**

| Lat. L-40 Line Drip |          |                   |                   |                        |                         |
|---------------------|----------|-------------------|-------------------|------------------------|-------------------------|
| Location            | Date     | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total Xylenes<br>(µg/L) |
| NMWQCC Standards:   |          | 10                | 750               | 750                    | 620                     |
| MW-4                | 05/18/18 | 11                | <1.0              | <1.0                   | <10                     |
| MW-4                | 11/01/18 | <1.0              | <1.0              | <1.0                   | <10                     |
|                     |          |                   |                   |                        |                         |
| MW-5                | 10/16/16 | 750               | 3000              | 190                    | 1600                    |
| MW-5                | 06/11/17 | 2000              | 230               | 75                     | 710                     |
| MW-5                | 11/11/17 | 1100              | 550               | 85                     | 820                     |
| MW-5                | 05/18/18 | 550               | 53                | 42                     | <50                     |
| MW-5                | 11/01/18 | 1200              | 370               | 190                    | 810                     |
| DUP-01(MW-5)*       | 11/01/18 | 1200              | 270               | 120                    | 550                     |
|                     |          |                   |                   |                        |                         |
| MW-7                | 11/01/18 | <1.0              | <1.0              | <1.0                   | <10                     |
|                     |          |                   |                   |                        |                         |
| MW-8                | 11/01/18 | <1.0              | <1.0              | <1.0                   | <10                     |
|                     |          |                   |                   |                        |                         |
| MW-9                | 11/01/18 | 5.6               | 5.5               | <1.0                   | <10                     |
|                     |          |                   |                   |                        |                         |
| MW-10               | 11/01/18 | <1.0              | <1.0              | <1.0                   | <10                     |

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 is 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 TABLE**

| <b>Lat. L-40 Line Drip</b> |             |            |                             |                             |                              |                           |
|----------------------------|-------------|------------|-----------------------------|-----------------------------|------------------------------|---------------------------|
| <b>Location</b>            | <b>Date</b> | <b>TOC</b> | <b>Depth to Water (ft.)</b> | <b>Depth to LNAPL (ft.)</b> | <b>LNAPL Thickness (ft.)</b> | <b>GW Elevation (ft.)</b> |
| MW-1                       | 09/26/95    | 7259.57    | 36.68                       | NR                          |                              | 7222.89                   |
| MW-1                       | 11/11/96    | 7259.57    | 36.62                       | 36.16                       | 0.46                         | 7223.30                   |
| MW-1                       | 03/31/97    | 7259.57    | 36.68                       | 36.18                       | 0.50                         | 7223.27                   |
| MW-1                       | 05/09/97    | 7259.57    | 36.57                       | 36.45                       | 0.12                         | 7223.09                   |
| MW-1                       | 11/06/00    | 7259.57    | 35.06                       | NR                          |                              | 7224.51                   |
| MW-1                       | 01/02/01    | 7259.57    | 39.08                       | 37.95                       | 1.13                         | 7221.34                   |
| MW-1                       | 06/08/01    | 7259.57    | 39.00                       | 37.89                       | 1.11                         | 7221.40                   |
| MW-1                       | 07/02/01    | 7259.57    | 39.14                       | 37.93                       | 1.21                         | 7221.34                   |
| MW-1                       | 08/03/01    | 7259.57    | 39.10                       | 37.83                       | 1.27                         | 7221.42                   |
| MW-1                       | 09/12/01    | 7259.57    | 38.96                       | 38.02                       | 0.94                         | 7221.32                   |
| MW-1                       | 10/12/01    | 7259.57    | 38.43                       | 38.19                       | 0.24                         | 7221.32                   |
| MW-1                       | 12/13/01    | 7259.57    | 38.75                       | 38.40                       | 0.35                         | 7221.08                   |
| MW-1                       | 03/12/02    | 7259.57    | 38.76                       | 38.42                       | 0.34                         | 7221.07                   |
| MW-1                       | 04/03/02    | 7259.57    | 38.66                       | 38.39                       | 0.27                         | 7221.11                   |
| MW-1                       | 05/20/02    | 7259.57    | 38.56                       | 38.46                       | 0.10                         | 7221.09                   |
| MW-1                       | 06/10/02    | 7259.57    | 38.56                       | 38.51                       | 0.05                         | 7221.05                   |
| MW-1                       | 07/19/02    | 7259.57    | 38.64                       | NR                          |                              | 7220.93                   |
| MW-1                       | 10/11/02    | 7259.57    | 38.87                       | 38.84                       | 0.03                         | 7220.72                   |
| MW-1                       | 05/06/03    | 7259.57    | 37.97                       | 37.94                       | 0.03                         | 7221.62                   |
| MW-1                       | 07/17/03    | 7259.57    | 38.95                       | ND                          |                              | 7220.62                   |
| MW-1                       | 10/13/03    | 7259.57    | 39.06                       | ND                          |                              | 7220.51                   |
| MW-1                       | 04/20/04    | 7259.57    | 39.18                       | ND                          |                              | 7220.39                   |
| MW-1                       | 07/27/04    | 7259.57    | 39.22                       | ND                          |                              | 7220.35                   |
| MW-1                       | 10/26/04    | 7259.57    | 39.35                       | ND                          |                              | 7220.22                   |
| MW-1                       | 04/22/05    | 7259.57    | 39.52                       | ND                          |                              | 7220.05                   |
| MW-1                       | 07/19/05    | 7259.57    | 39.34                       | ND                          |                              | 7220.23                   |
| MW-1                       | 10/21/05    | 7259.57    | 39.57                       | ND                          |                              | 7220.00                   |
| MW-1                       | 01/24/06    | 7259.57    | 38.67                       | ND                          |                              | 7220.90                   |
| MW-1                       | 05/10/06    | 7259.57    | 38.72                       | ND                          |                              | 7220.85                   |
| MW-1                       | 07/26/06    | 7259.57    | 38.72                       | ND                          |                              | 7220.85                   |
| MW-1                       | 10/22/06    | 7259.57    | 38.91                       | ND                          |                              | 7220.66                   |
| MW-1                       | 04/29/07    | 7259.57    | 38.92                       | ND                          |                              | 7220.65                   |
| MW-1                       | 07/31/07    | 7259.57    | 38.85                       | ND                          |                              | 7220.72                   |
| MW-1                       | 10/30/07    | 7259.57    | 38.79                       | ND                          |                              | 7220.78                   |
| MW-1                       | 04/17/08    | 7259.57    | 38.98                       | ND                          |                              | 7220.59                   |
| MW-1                       | 07/23/08    | 7259.57    | 38.99                       | ND                          |                              | 7220.58                   |
| MW-1                       | 10/09/08    | 7259.57    | 38.95                       | ND                          |                              | 7220.62                   |
| MW-1                       | 04/08/09    | 7259.57    | 39.04                       | ND                          |                              | 7220.53                   |
| MW-1                       | 06/03/10    | 7259.57    | 39.40                       | ND                          |                              | 7220.17                   |
| MW-1                       | 09/24/10    | 7259.57    | 39.45                       | ND                          |                              | 7220.12                   |
| MW-1                       | 11/02/10    | 7259.57    | 39.47                       | ND                          |                              | 7220.10                   |

**TABLE 2 GROUNDWATER ELEVATION TABLE**

| <b>Lat. L-40 Line Drip</b> |             |            |                             |                             |                              |                           |
|----------------------------|-------------|------------|-----------------------------|-----------------------------|------------------------------|---------------------------|
| <b>Location</b>            | <b>Date</b> | <b>TOC</b> | <b>Depth to Water (ft.)</b> | <b>Depth to LNAPL (ft.)</b> | <b>LNAPL Thickness (ft.)</b> | <b>GW Elevation (ft.)</b> |
| MW-1                       | 05/03/11    | 7259.57    | 39.55                       | ND                          |                              | 7220.02                   |
| MW-1                       | 09/28/11    | 7259.57    | 39.63                       | ND                          |                              | 7219.94                   |
| MW-1                       | 11/02/11    | 7259.57    | 39.73                       | ND                          |                              | 7219.84                   |
| MW-1                       | 05/09/12    | 7259.57    | 39.73                       | ND                          |                              | 7219.84                   |
| MW-1                       | 06/09/13    | 7259.57    | 37.97                       | ND                          |                              | 7221.60                   |
| MW-1                       | 09/11/13    | 7259.57    | 38.86                       | ND                          |                              | 7220.71                   |
| MW-1                       | 12/14/13    | 7259.57    | 40.09                       | ND                          |                              | 7219.48                   |
| MW-1                       | 04/06/14    | 7259.57    | 40.09                       | ND                          |                              | 7219.48                   |
| MW-1                       | 10/26/14    | 7259.57    | 40.22                       | ND                          |                              | 7219.35                   |
| MW-1                       | 06/01/15    | 7259.57    | 46.45                       | ND                          |                              | 7213.12                   |
| MW-1                       | 11/23/15    | 7259.57    | 42.13                       | ND                          |                              | 7217.44                   |
| MW-1                       | 04/19/16    | 7259.57    | 40.59                       | ND                          |                              | 7218.98                   |
| MW-1                       | 10/16/16    | 7259.57    | 40.71                       | ND                          |                              | 7218.86                   |
| MW-1                       | 06/11/17    | 7259.57    | 40.73                       | ND                          |                              | 7218.84                   |
| MW-1                       | 11/11/17    | 7259.57    | 40.85                       | ND                          |                              | 7218.72                   |
| MW-1                       | 05/18/18    | 7259.57    | 40.90                       | ND                          |                              | 7218.67                   |
| MW-1                       | 11/01/18    | 7259.57    | 40.99                       | ND                          |                              | 7218.58                   |
|                            |             |            |                             |                             |                              |                           |
| MW-2                       | 10/16/16    | 7259.65    | 40.65                       | ND                          |                              | 7219.00                   |
| MW-2                       | 06/11/17    | 7259.65    | 40.71                       | ND                          |                              | 7218.94                   |
| MW-2                       | 11/11/17    | 7259.65    | 40.81                       | ND                          |                              | 7218.84                   |
| MW-2                       | 05/18/18    | 7259.65    | 40.84                       | ND                          |                              | 7218.81                   |
| MW-2                       | 11/01/18    | 7259.65    | 41.00                       | ND                          |                              | 7218.65                   |
|                            |             |            |                             |                             |                              |                           |
| MW-3                       | 10/16/16    | 7259.10    | 40.21                       | ND                          |                              | 7218.89                   |
| MW-3                       | 06/11/17    | 7259.10    | 40.29                       | ND                          |                              | 7218.81                   |
| MW-3                       | 11/11/17    | 7259.10    | 40.36                       | ND                          |                              | 7218.74                   |
| MW-3                       | 05/18/18    | 7259.10    | 40.52                       | ND                          |                              | 7218.58                   |
| MW-3                       | 11/01/18    | 7259.10    | 40.53                       | ND                          |                              | 7218.57                   |
|                            |             |            |                             |                             |                              |                           |
| MW-4                       | 10/16/16    | 7261.59    | 42.80                       | ND                          |                              | 7218.79                   |
| MW-4                       | 06/11/17    | 7261.59    | 42.69                       | ND                          |                              | 7218.90                   |
| MW-4                       | 11/11/17    | 7261.59    | 42.77                       | ND                          |                              | 7218.82                   |
| MW-4                       | 05/18/18    | 7261.59    | 42.81                       | ND                          |                              | 7218.78                   |
| MW-4                       | 11/01/18    | 7261.59    | 42.94                       | ND                          |                              | 7218.65                   |
|                            |             |            |                             |                             |                              |                           |
| MW-5                       | 10/16/16    | 7260.08    | 41.23                       | ND                          |                              | 7218.85                   |
| MW-5                       | 06/11/17    | 7260.08    | 41.33                       | ND                          |                              | 7218.75                   |
| MW-5                       | 11/11/17    | 7260.08    | 41.40                       | ND                          |                              | 7218.68                   |
| MW-5                       | 05/18/18    | 7260.08    | 41.41                       | ND                          |                              | 7218.67                   |
| MW-5                       | 11/01/18    | 7260.08    | 41.53                       | ND                          |                              | 7218.55                   |

**TABLE 2 GROUNDWATER ELEVATION TABLE**

| <b>Lat. L-40 Line Drip</b> |             |            |                             |                             |                              |                           |
|----------------------------|-------------|------------|-----------------------------|-----------------------------|------------------------------|---------------------------|
| <b>Location</b>            | <b>Date</b> | <b>TOC</b> | <b>Depth to Water (ft.)</b> | <b>Depth to LNAPL (ft.)</b> | <b>LNAPL Thickness (ft.)</b> | <b>GW Elevation (ft.)</b> |
|                            |             |            |                             |                             |                              |                           |
| MW-6                       | 11/01/18    | 7261.87    | Dry                         | ND                          |                              | Dry                       |
|                            |             |            |                             |                             |                              |                           |
| MW-7                       | 11/01/18    | 7259.41    | 40.62                       | ND                          |                              | 7218.79                   |
|                            |             |            |                             |                             |                              |                           |
| MW-8                       | 11/01/18    | 7258.82    | 40.25                       | ND                          |                              | 7218.57                   |
|                            |             |            |                             |                             |                              |                           |
| MW-9                       | 11/01/18    | 7258.82    | 40.35                       | ND                          |                              | 7218.47                   |
|                            |             |            |                             |                             |                              |                           |
| MW-10                      | 11/01/18    | 7260.89    | 42.29                       | ND                          |                              | 7218.60                   |

Notes:

"ft" = feet

"TOC" = Top of casing

"LNAPL" = Light non-aqueous phase liquid

"ND" = LNAPL not detected

"NR" = LNAPL not recorded

### TABLE 3 - SOIL ANALYTICAL RESULTS

| Lat. L-40 Line Drip          |                 |                 |                 |                      |                       |                    |                   |                    |                    |             |                  |
|------------------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|--------------------|-------------------|--------------------|--------------------|-------------|------------------|
| Location (depth in feet bgs) | Date (mm/dd/yy) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | BTEX Total (mg/kg) | GRO C6-10 (mg/kg) | DRO C10-28 (mg/kg) | MRO C28-35 (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
| NMOCD Criteria:              |                 | 10              | NE              | NE                   | NE                    | 50                 | NE                | NE                 | NE                 | 100         | 600              |
| MW-2 (12-13)                 | 10/06/16        | <b>13</b>       | 110             | 29                   | 410                   | <b>562</b>         | 8400              | 280                | 5.5                | <b>8686</b> | BRL              |
| MW-3 (29-30)                 | 10/06/16        | BRL             | 0.0063          | BRL                  | 0.015                 | 0.0213             | BRL               | BRL                | BRL                | BRL         | BRL              |
| MW-4 (20-21)                 | 10/06/16        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| MW-5 (20-21)                 | 10/05/16        | BRL             | BRL             | BRL                  | 0.0073                | 0.0073             | 0.12              | 6.2                | BRL                | 6.32        | BRL              |
| SB-1 (12-13)                 | 10/06/16        | BRL             | BRL             | 0.0054               | 0.052                 | 0.057              | 0.89              | 22                 | BRL                | 22.89       | BRL              |
| SB-1 (16-17)                 | 10/06/16        | 0.059           | 0.90            | 1.8                  | 14                    | 17                 | 170               | 45                 | BRL                | <b>215</b>  | BRL              |
| SB-1 (21-22)                 | 10/06/16        | BRL             | BRL             | 0.18                 | 0.98                  | 1.16               | 50                | 21                 | BRL                | 71          | BRL              |
| MW-6 (20-21)                 | 10/05/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| MW-6 (32-33)                 | 10/10/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| MW-7 (32-33)                 | 10/09/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| MW-8 (24-25)                 | 10/05/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| MW-9 (23-24)                 | 10/05/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| MW-10 (32-33)                | 10/05/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| SVE-1 (21-22)                | 10/10/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | 0.13              | 40                 | BRL                | 40          | BRL              |
| SVE-1 (27-28)                | 10/10/18        | BRL             | 0.0078          | 0.01                 | 0.053                 | 0.07               | 9.0               | 48                 | BRL                | 57          | BRL              |
| SVE-2 (15-16)                | 10/13/18        | 0.88            | 7.3             | 1.4                  | 11                    | 21                 | 280               | 40                 | BRL                | <b>320</b>  | BRL              |
| SVE-2 (25-26)                | 10/13/18        | 0.11            | 0.51            | 0.02                 | 0.30                  | 0.94               | 1.3               | BRL                | BRL                | 1.3         | BRL              |
| SVE-3 (13-14)                | 10/13/18        | BRL             | BRL             | BRL                  | BRL                   | BRL                | BRL               | BRL                | BRL                | BRL         | BRL              |
| SVE-3 (26-27)                | 10/13/18        | 0.0059          | 0.10            | 0.0064               | 0.28                  | 0.39               | 0.85              | BRL                | BRL                | 0.85        | BRL              |

**Notes:**

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

## **FIGURES**

FIGURE 1: MAY 18, 2018 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 2: MAY 18, 2018 GROUNDWATER ELEVATION MAP

FIGURE 3: NOVEMBER 1, 2018 GROUNDWATER ANALYTICAL RESULTS MAP

FIGURE 4: NOVEMBER 1, 2018 GROUNDWATER ELEVATION MAP

FIGURE 5: SOIL ANALYTICAL RESULTS MAP



AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/16/2016

## LEGEND:

- APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- NATURAL GAS LINE
- FENCE
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- MONITORING WELL
- SMA BENCHMARK
- GAS LINE VALVE

### NOTES:

DP = FIELD DUPLICATE SAMPLE

### EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.

µg/L = MICROGRAMS PER LITER

<100 = 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         |



| REVISION | DATE      | DESIGN BY | DRAWN BY | REVIEWED BY |
|----------|-----------|-----------|----------|-------------|
|          | 3/27/2019 | SLG       | SLG      | SRV         |

TITLE:

**GROUNDWATER ANALYTICAL RESULTS**  
**MAY 18, 2018**

PROJECT:

**LAT L-40**  
**SAN JUAN RIVER BASIN**  
**RIO ARRIBA COUNTY, NEW MEXICO**



Figure No.:

**1**

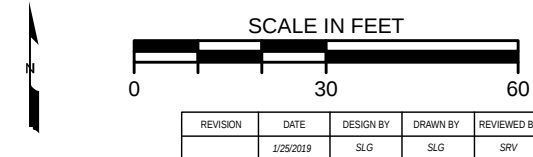


**LEGEND:**

- 7259 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- A— NATURAL GAS LINE
- X— FENCE
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- MONITORING WELL
- SMA BENCHMARK
- GAS LINE VALVE

**NOTES:**

- GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- 5489.39
- CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).
- 5489.25
- DIRECTION OF APPARENT GROUNDWATER FLOW





AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/16/2016

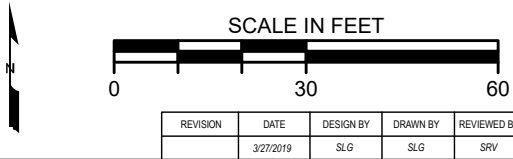
**LEGEND:**

- 7259 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- GAS — NATURAL GAS LINE
- X — FENCE
- GATE
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- Monitoring Well
- SMA BENCHMARK
- GAS LINE VALVE

**NOTES:**  
DUP = FIELD DUPLICATE SAMPLE

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**  
RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.  
µg/L = MICROGRAMS PER LITER  
<100 = 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         |



TITLE:  
**GROUNDWATER ANALYTICAL RESULTS  
NOVEMBER 1, 2018**

PROJECT: **LAT L-40  
SAN JUAN RIVER BASIN  
RIO ARRIBA COUNTY, NEW MEXICO**



Figure No.:

**3**



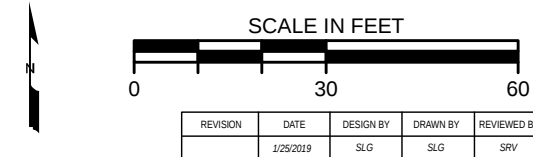
AERIAL IMAGERY FROM GOOGLE EARTH, DATE 3/16/2016

## LEGEND:

- APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- NATURAL GAS LINE
- FENCE
- GATE
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- MONITORING WELL
- SMA BENCHMARK
- GAS LINE VALVE

## NOTES:

- GROUNDWATER ELEVATION (CORRECTED FOR PRODUCT THICKNESS WHEN PRESENT) FEET ABOVE MEAN SEA LEVEL
- CORRECTED WATER ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).
- DIRECTION OF APPARENT GROUNDWATER FLOW

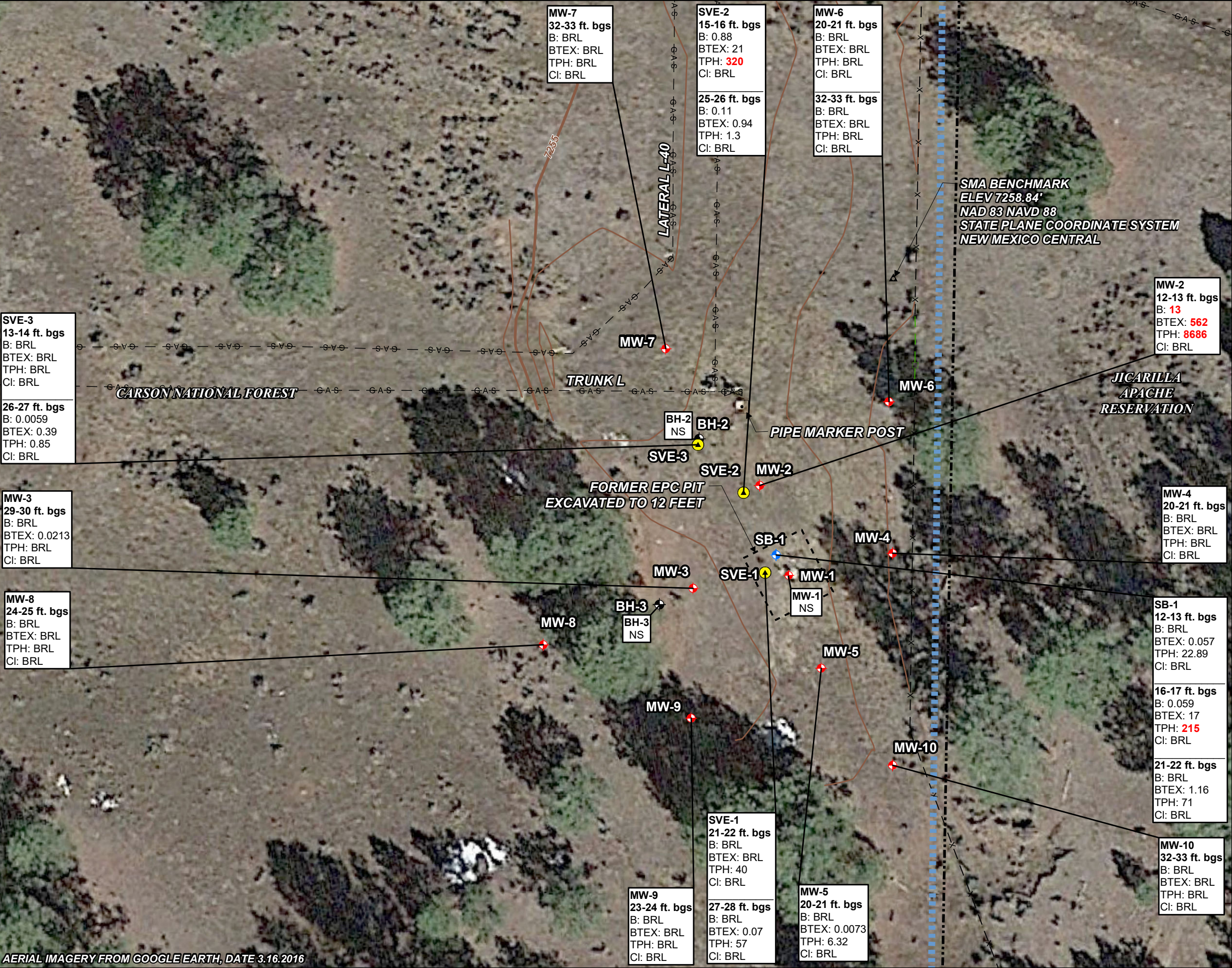


TITLE: GROUNDWATER ELEVATION MAP  
NOVEMBER 1, 2018

PROJECT: LAT L-40  
SAN JUAN RIVER BASIN  
RIO ARRIBA COUNTY, NEW MEXICO



Figure No.: 4



**LEGEND:**

- 7259 APPROXIMATE GROUND SURFACE CONTOUR AND ELEVATION, FEET
- NATURAL GAS LINE
- FENCE
- GATE
- MONITORING WELL
- SOIL BORING
- BOREHOLE
- TEST WELL LOCATIONS
- SMA BENCHMARK
- GAS LINE VALVE
- CARSON NATIONAL FOREST AND JICARILLA APACHE NATION LAND BOUNDARY
- FOREST SERVICE JIC25 PERMIT BOUNDARY (4.3 ACRES) AND PROPOSED EXPANDED PERMIT AREA

**NOTES:**  
MW-5 SAMPLES COLLECTED 10/5/2016; MW-2, MW-3, MW-4 AND SB-1 10/6/2016; MW-6 10/5/2018 AND 10/10/2018; MW-7 10/9/2018; MW-8 10/5/2018; MW-9 10/5/2018; MW-10 10/5/2018; SVE-1 10/10/2018; SVE-2 10/13/2018; SVE-3 10/13/2018.

UTILITY LOCATIONS ARE APPROXIMATE.  
ft. bgs = FEET BELOW GROUND SURFACE  
NS = NOT SAMPLED

**EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:**  
RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF APPLICABLE NEW MEXICO OIL CONSERVATION DIVISION SOIL CRITERIA FOR THAT ANALYTE.  
mg/kg = MILLIGRAM/KILOGRAM  
BRL = BELOW REPORTING LIMITS

| ANALYTE                                        | NMOC D STANDARDS |
|------------------------------------------------|------------------|
| B = Benzene                                    | 10 mg/kg         |
| BTEX = Benzene, toluene, ethylbenzene, xylenes | 50 mg/kg         |
| TPH = Total Petroleum Hydrocarbons             | 100 mg/kg        |
| Cl = Chloride                                  | 600 mg/kg        |

| REVISION | DATE      | DESIGN BY | DRAWN BY | REVIEWED BY |
|----------|-----------|-----------|----------|-------------|
|          | 3/28/2019 | SLG       | SLG      | SRV         |

TITLE:  
**SOIL ANALYTICAL RESULTS**

PROJECT:  
**LAT L-40  
SAN JUAN RIVER BASIN  
RIO ARriba COUNTY, NEW MEXICO**

Stantec

Figure No.:  
**5**

## **APPENDICES**

- APPENDIX A – NOTIFICATIONS TO NEW MEXICO OIL CONSERVATION DIVISION
- APPENDIX B – BORING LOGS AND MONITORING WELL CONSTRUCTION  
DIAGRAMS
- APPENDIX C – SOIL SAMPLE ANALYTICAL REPORT
- APPENDIX D – SOIL WASTE DISPOSAL DOCUMENTATION
- APPENDIX E – WATER WASTE DISPOSAL DOCUMENTATION
- APPENDIX F – SVE STEP TEST REPORT
- APPENDIX G – MAY 18, 2018 GROUNDWATER SAMPLING ANALYTICAL REPORT  
NOVEMBER 1, 2018 GROUNDWATER SAMPLING ANALYTICAL  
REPORT

# APPENDIX A

**From:** [Varsa, Steve](#)  
**To:** [Fields, Vanessa, EMNRD](#); [Smith, Cory, EMNRD](#)  
**Cc:** ["Bayliss, Randolph, EMNRD"](#); [Griswold, Jim, EMNRD](#); ["Wiley, Joe"](#)  
**Bcc:** [Sarah Gardner \(sarah.gardner@stantec.com\)](#); [Varsa, Steve](#)  
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities  
**Date:** Wednesday, May 09, 2018 9:23:00 AM

---

Vanessa and Cory -

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

| Site Name                  | NMOCD Case # | Sample Date |
|----------------------------|--------------|-------------|
| Canada Mesa #2             | 3RP-155-0    | 5/15/2018   |
| Fields A#7A                | 3RP-170-0    | 5/17/2018   |
| Fogelson 4-1               | 3RP-068-0    | 5/17/2018   |
| Gallegos Canyon Unit #124E | 3RP-407-0    | 5/17/2018   |
| GCU Com A #142E            | 3RP-179-0    | 5/17/2018   |
| James F. Bell #1E          | 3RP-196-0    | 5/19/2019   |
| Johnston Fed #4            | 3RP-201-0    | 5/16/2018   |
| Johnston Fed #6A           | 3RP-202-0    | 5/16/2018   |
| K27 LDO72                  | 3RP-204-0    | 5/15/2018   |
| Knight #1                  | 3RP-207-0    | 5/19/2019   |
| Lateral L 40 Line Drip     | 3RP-212-0    | 5/18/2018   |
| Lat O-21 Line Drip         | 3RP-213-0    | 5/16/2018   |
| Miles Fed #1A              | 3RP-223-0    | 5/15/2018   |
| Sandoval GC A #1A          | 3RP-235-0    | 5/16/2018   |
| Standard Oil Com #1        | 3RP-238-0    | 5/15/2018   |
| State Gas Com N #1         | 3RP-239-0    | 5/18/2018   |

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](mailto:steve.varsa@stantec.com)

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

**From:** [Varsa, Steve](#)  
**To:** [Bayliss, Randolph, EMNRD](#)  
**Cc:** [Smith, Cory, EMNRD](#); [Fields, Vanessa, EMNRD](#); [Wiley, Joe](#)  
**Bcc:** [Varsa, Steve](#)  
**Subject:** 3RP-212 - Lateral L-40 - Work Plan for 2018 Well Installation and SVE Feasibility Testing Activities  
**Date:** Thursday, September 20, 2018 7:58:00 AM  
**Attachments:** [2018-09\\_Well Install & SVE Feasibility Testing Work Plan \(Lat L 40\).pdf](#)

---

Hi Randy –

Please find attached the above-referenced work plan for your review and files. Well Installation activities at the Site are to be initiated on October 1, 2018. SVE pilot testing activities are to occur on October 18, 2018.

Please feel free to contact Joseph Wiley or me if you have any questions or need additional 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](mailto:steve.varsa@stantec.com)

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

**From:** [Varsa, Steve](#)  
**To:** [Bayliss, Randolph, EMNRD](#)  
**Cc:** [Smith, Cory, EMNRD](#); [Fields, Vanessa, EMNRD](#); [Wiley, Joe](#)  
**Bcc:** [Varsa, Steve](#)  
**Subject:** FW: 3RP-212 - Lateral L-40 - Work Plan for 2018 Well Installation and SVE Feasibility Testing Activities  
**Date:** Tuesday, October 16, 2018 4:48:00 AM  
**Attachments:** [2018-09\\_Well Install & SVE Feasibility Testing Work Plan \(Lat L 40\).pdf](#)

---

Hi Randy – This correspondence is to provide notice the planned SVE feasibility testing activities at the above-referenced site, now planned to occur on October 20, 2018.

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](mailto:steve.varsa@stantec.com)

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

---

**From:** Varsa, Steve  
**Sent:** Thursday, September 20, 2018 7:59 AM  
**To:** Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>  
**Cc:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Wiley, Joe <Joe\_Wiley@kindermorgan.com>  
**Subject:** 3RP-212 - Lateral L-40 - Work Plan for 2018 Well Installation and SVE Feasibility Testing Activities

Hi Randy –

Please find attached the above-referenced work plan for your review and files. Well Installation activities at the Site are to be initiated on October 1, 2018. SVE pilot testing activities are to occur on October 18, 2018.

Please feel free to contact Joseph Wiley or me if you have any questions or need additional 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](mailto:steve.varsa@stantec.com)

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

**From:** [Varsa, Steve](#)  
**To:** [Fields, Vanessa, EMNRD](#); [Smith, Cory, EMNRD](#)  
**Cc:** ["Bayliss, Randolph, EMNRD"](#); [Griswold, Jim, EMNRD](#); ["Wiley, Joe"](#)  
**Bcc:** [Varsa, Steve](#)  
**Subject:** El Paso CGP Company - Notice of upcoming groundwater sampling activities  
**Date:** Tuesday, October 23, 2018 1:22:00 PM

---

Vanessa and Cory -

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

| Site Name                  | NMOCD Case # | Sample Date |
|----------------------------|--------------|-------------|
| Canada Mesa #2             | 3RP-155-0    | 10/27/2018  |
| Fields A#7A                | 3RP-170-0    | 10/26/2018  |
| Fogelson 4-1               | 3RP-068-0    | 10/28/2018  |
| Gallegos Canyon Unit #124E | 3RP-407-0    | 10/28/2018  |
| GCU Com A #142E            | 3RP-179-0    | 10/28/2018  |
| James F. Bell #1E          | 3RP-196-0    | 10/29/2018  |
| Johnston Fed #4            | 3RP-201-0    | 10/26/2018  |
| Johnston Fed #6A           | 3RP-202-0    | 10/26/2018  |
| K27 LDO72                  | 3RP-204-0    | 10/27/2018  |
| Knight #1                  | 3RP-207-0    | 10/29/2018  |
| Lateral L 40 Line Drip     | 3RP-212-0    | 10/31/2018  |
| Miles Fed #1A              | 3RP-223-0    | 10/27/2018  |
| Sandoval GC A #1A          | 3RP-235-0    | 10/28/2018  |
| Standard Oil Com #1        | 3RP-238-0    | 10/27/2018  |
| State Gas Com N #1         | 3RP-239-0    | 10/26/2018  |

Additionally, we will be at the State Gas Com N#1 site on October 30, 2018, to complete the proposed aquifer testing activities. We will be completing aquifer testing using slug-out methods, and collecting recovery measurements manually over several days.

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](mailto:steve.varsa@stantec.com)

The content of this email is the confidential property of Stantec and should not be copied, modified, retransmitted, or used for any purpose except with Stantec's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

# APPENDIX B



# Drilling Log

Monitoring Well **MW-6**

Page: 1 of 2

Project Lateral L 40 Client El Paso CGP Company, LLC  
 Location Rio Arriba County, New Mexico Project Number 193706391  
 Surface Elev. 7259.44 ft North 2060795.25 East 1353440.39  
 Top of Casing 7261.87 ft Water Level Initial NA Static NA  
 Hole Depth 50.0 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in  
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 30.6 ft Type PVC  
 Drill Co. Cascade Drilling Method HSA Sand Pack Pioneer 10/20 sand  
 Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
 Start Date 10/10/2018 Completion Date 10/10/2018 Checked By S. Varsa

Bentonite Grout 
 Bentonite Granules 
 Grout 
 Portland Cement 
 Sand Pack 
 Sand Pack

COMMENTS  
 MW-6 was dry one day after installation.

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS  | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                                                             | Well Completion |
|------------|-----------|------------|---------------------|-------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          | 0         | 100%       |                     |             | CL ML | Clay, silty, brown, firm, low plasticity, no hydrocarbon odor or staining. (0-5' hydroexcavated).                                                                                      |                 |
| 5          | 0         | 60%        |                     |             | CL    | Becomes sandy - fine-grained, dry.                                                                                                                                                     |                 |
| 10         | 0         | 40%        |                     |             | CL    | Becomes dark brown, little silt.                                                                                                                                                       |                 |
| 15         | 0         | 60%        |                     |             | SW    | Sand to a highly weathered sandstone, poorly-sorted, light grayish brown, dry, fine to medium-grained.                                                                                 |                 |
| 20         | 0         | 30%        | Sampled 20-21'      |             |       | Sandstone, hard, dry, no hydrocarbon odor or staining, light grayish-brown.                                                                                                            |                 |
| 25         | 0         | 20%        |                     |             |       | Drill rig refusal at 25'. Material is sandstone, light brown, becomes light olive-brown at 26', pulverized, fine to medium-grained, medium hard, dry, no hydrocarbon odor or staining. |                 |
| 30         |           |            |                     |             |       |                                                                                                                                                                                        |                 |

Drilling Log 2018 LATERAL L 40 LOGS GPJ MWH IA.GDT 3/12/19

Continued Next Page



# Drilling Log

Monitoring Well

**MW-6**

Page: 2 of 2

Project Lateral L 40

Client El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 193706391

| Depth<br>(ft) | PID<br>(ppm) | % Recovery            | Blow Count<br>Recovery | Graphic<br>Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS. | Well<br>Completion |
|---------------|--------------|-----------------------|------------------------|----------------|------|------------------------------------------------------------------------------------------------------------|--------------------|
| 30            | 1.1          |                       |                        |                |      | <i>Continued</i>                                                                                           |                    |
|               | 1.8          | 40%                   |                        |                |      |                                                                                                            |                    |
|               |              | Sampled<br>32-<br>33' |                        |                |      |                                                                                                            |                    |
| 35            | 0.1          |                       |                        |                |      |                                                                                                            |                    |
|               | 0.8          | 50%                   |                        |                |      |                                                                                                            |                    |
|               | 2.6          |                       |                        |                |      | At 37', becomes light reddish-brown, iron oxide staining.                                                  |                    |
| 40            | 0            |                       |                        |                |      |                                                                                                            |                    |
|               | 0            | 50%                   |                        |                |      | At 40', becomes light gray, hydrocarbon-stained but no odor, moist.                                        |                    |
|               | 0            |                       |                        |                |      |                                                                                                            |                    |
|               | 0            |                       |                        |                |      |                                                                                                            |                    |
| 45            | 0            |                       |                        |                |      |                                                                                                            |                    |
|               | 0            | 60%                   |                        |                |      |                                                                                                            |                    |
|               | 0            |                       |                        |                |      |                                                                                                            |                    |
|               | 0.1          |                       |                        |                |      | At 48', encountered a harder lens of sandstone.                                                            |                    |
| 50            |              |                       |                        |                |      | End of boring = 50'.                                                                                       |                    |
| 55            |              |                       |                        |                |      |                                                                                                            |                    |
| 60            |              |                       |                        |                |      |                                                                                                            |                    |
| 65            |              |                       |                        |                |      |                                                                                                            |                    |
| 70            |              |                       |                        |                |      |                                                                                                            |                    |



# Drilling Log

Monitoring Well **MW-7**

Page: 1 of 2

Project Lateral L 40 Client El Paso CGP Company, LLC  
 Location Rio Arriba County, New Mexico Project Number 193706391  
 Surface Elev. 7256.88 ft North 2060811.63 East 1363371.24  
 Top of Casing 7259.41 ft Water Level Initial NA Static 7220.818 10/10/18 00:00  
 Hole Depth 50.0 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in  
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 30.7 ft Type PVC  
 Drill Co. Cascade Drilling Method HSA Sand Pack Pioneer 10/20 sand  
 Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
 Start Date 10/9/2018 Completion Date 10/9/2018 Checked By S. Varsa

COMMENTS

Bentonite Grout 
 Bentonite Granules 
 Grout 
 Portland Cement 
 Sand Pack 
 Sand Pack

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS  | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                    | Well Completion |
|------------|-----------|------------|---------------------|-------------|-------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          | 0         | 100%       |                     |             |       | Clay, silty, brown, firm, moist, no hydrocarbon odor or staining. (0-8' hydroexcavated).                                      |                 |
| 5          |           |            |                     |             | CL ML |                                                                                                                               |                 |
| 10         | 0         | 100%       |                     |             | SP    | Sand, light brown, soft, moist, fine to medium-grained, no hydrocarbon odor or staining, highly weathered sandstone, friable. |                 |
|            | 0         | 30%        |                     |             |       | Sandstone, dry, medium hard, moderately weathered.                                                                            |                 |
| 15         | 0         | 10%        |                     |             |       | At 12', sandstone is pulverized.                                                                                              |                 |
|            |           |            |                     |             |       | At 15', sandstone becomes light olive-brown.                                                                                  |                 |
| 20         | 0         | 40%        |                     |             |       |                                                                                                                               |                 |
| 25         | 0.2       | 40%        |                     |             |       |                                                                                                                               |                 |
| 30         | 0.2       |            |                     |             |       |                                                                                                                               |                 |

Drilling Log 2018 LATERAL L 40 LOGS - COPY FOR V2 XSECS.GPJ MWH I.A.GDT 3/12/19

Continued Next Page



# Drilling Log

Monitoring Well

**MW-7**

Page: 2 of 2

Project Lateral L 40

Client El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 193706391

| Depth<br>(ft) | PID<br>(ppm) | % Recovery            | Blow Count<br>Recovery | Graphic<br>Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                     | Well<br>Completion |
|---------------|--------------|-----------------------|------------------------|----------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 30            |              |                       |                        |                |      | <i>Continued</i>                                                                                                                               |                    |
| 1.1           |              | 40%                   |                        |                |      |                                                                                                                                                |                    |
| 2.8           |              |                       |                        |                |      |                                                                                                                                                |                    |
| 6.8           |              | Sampled<br>32-<br>33' |                        |                |      |                                                                                                                                                |                    |
| 35            |              |                       |                        |                |      | At 35', becomes dark olive-brown.                                                                                                              |                    |
| 2.0           |              | 40%                   |                        |                |      | At 36', becomes light reddish-brown, iron oxide staining.                                                                                      |                    |
| 0.5           |              |                       |                        |                |      | At 37', becomes very light gray, medium hard, non-weathered. At 37.5', becomes light bluish-gray, moist to wet, possible hydrocarbon staining. |                    |
| 0.6           |              |                       |                        |                |      |                                                                                                                                                |                    |
| 40            |              |                       |                        |                |      | At 40' becomes light gray, no hydrocarbon odor, possible hydrocarbon staining.                                                                 |                    |
| 1.2           |              | 40%                   |                        |                |      |                                                                                                                                                |                    |
| 3.3           |              |                       |                        |                |      |                                                                                                                                                |                    |
| 4.4           |              |                       |                        |                |      |                                                                                                                                                |                    |
| 1.5           |              |                       |                        |                |      |                                                                                                                                                |                    |
| 45            |              |                       |                        |                |      | Material is moist at 45' and wet from 47-47.25'.                                                                                               |                    |
| 0             |              | 40%                   |                        |                |      |                                                                                                                                                |                    |
| 0             |              |                       |                        |                |      |                                                                                                                                                |                    |
| 0             |              |                       |                        |                |      |                                                                                                                                                |                    |
| 0             |              |                       |                        |                |      | Becomes very hard at 48'.                                                                                                                      |                    |
| 50            |              |                       |                        |                |      | End of boring = 50'.                                                                                                                           |                    |
| 55            |              |                       |                        |                |      |                                                                                                                                                |                    |
| 60            |              |                       |                        |                |      |                                                                                                                                                |                    |
| 65            |              |                       |                        |                |      |                                                                                                                                                |                    |
| 70            |              |                       |                        |                |      |                                                                                                                                                |                    |



# Drilling Log

Monitoring Well **MW-8**

Page: 1 of 2

Project Lateral L 40 Client El Paso CGP Company, LLC  
Location Rio Arriba County, New Mexico Project Number 193706391  
Surface Elev. 7256.46 ft North 2060719.92 East 1363333.23  
Top of Casing 7258.82 ft Water Level Initial NA Static 7220.738 10/09/18 00:00  
Hole Depth 50.0 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in  
Hole Diameter 8.25 in Casing: Diameter 2 in Length 30.7 ft Type PVC  
Drill Co. National EWP Drilling Method HSA Sand Pack Pioneer 10/20 sand  
Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
Start Date 10/7/2018 Completion Date 10/7/2018 Checked By S. Varsa

COMMENTS

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS  | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                                                  | Well Completion |
|------------|-----------|------------|---------------------|-------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          | 0         | 100%       |                     |             | CL ML | Clay, silty, brown, firm, low plasticity, no hydrocarbon odor or staining. (0-5' hydroexcavated).                                                                           |                 |
| 5          | 0         | 20%        |                     |             |       | Sand, light brown, medium hard, moderately weathered sandstone, fine-grained, dry, no hydrocarbon odor or staining.<br>Driller indicates a hard sand lens exists from 7-8'. |                 |
| 10         | 0         | 40%        |                     |             |       | At 15', becomes light olive-brown.                                                                                                                                          |                 |
| 15         | 0         | 100%       |                     |             | SP    |                                                                                                                                                                             |                 |
| 20         | 0         | 10%        |                     |             |       |                                                                                                                                                                             |                 |
| 25         | 0         | 100%       |                     |             |       |                                                                                                                                                                             |                 |
| 30         | 0         |            |                     |             |       |                                                                                                                                                                             |                 |

Drilling Log 2018 LATERAL L 40 LOGS - COPY FOR V2 XSECS.GPJ MWH I.A.GDT 3/12/19

Continued Next Page



# Drilling Log

Monitoring Well

**MW-8**

Page: 2 of 2

Project Lateral L 40

Client El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 193706391

| Depth<br>(ft) | PID<br>(ppm) | % Recovery | Blow Count<br>Recovery | Graphic<br>Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS. | Well<br>Completion |
|---------------|--------------|------------|------------------------|----------------|------|------------------------------------------------------------------------------------------------------------|--------------------|
| 30            | 0.2          |            |                        |                |      | <i>Continued</i>                                                                                           |                    |
|               | 0.1          | 50%        |                        |                |      |                                                                                                            |                    |
|               | 0.1          |            |                        |                |      |                                                                                                            |                    |
|               | 0.1          |            |                        |                | SP   |                                                                                                            |                    |
| 35            | 0.1          |            |                        |                |      | At 35', becomes dark olive-brown.                                                                          |                    |
|               | 0.1          | 100%       |                        |                |      | At 36', becomes light reddish-brown, iron oxide staining.                                                  |                    |
|               | 0.1          |            |                        |                |      | At 37', becomes very light gray, medium hard, non-weathered sandstone.                                     |                    |
|               | 0.1          |            |                        |                |      | At 37.5', becomes light bluish-gray, moist to wet, possible hydrocarbon staining.                          |                    |
| 40            | 0.1          |            |                        |                |      |                                                                                                            |                    |
|               | 0            | 40%        |                        |                |      | At 40' becomes light gray, no hydrocarbon odor, possible hydrocarbon staining.                             |                    |
|               | 0            |            |                        |                |      |                                                                                                            |                    |
|               | 0            |            |                        |                |      |                                                                                                            |                    |
| 45            | 0            |            |                        |                |      | Sandstone is moist at 45' and wet from 47-47.25'.                                                          |                    |
|               | 0            | 50%        |                        |                |      |                                                                                                            |                    |
|               | 0            |            |                        |                |      | Becomes very hard at 48'.                                                                                  |                    |
| 50            |              |            |                        |                |      | End of boring = 50'.                                                                                       |                    |
| 55            |              |            |                        |                |      |                                                                                                            |                    |
| 60            |              |            |                        |                |      |                                                                                                            |                    |
| 65            |              |            |                        |                |      |                                                                                                            |                    |
| 70            |              |            |                        |                |      |                                                                                                            |                    |



# Drilling Log

Monitoring Well **MW-9**

Page: 1 of 2

Project Lateral L 40 Client El Paso CGP Company, LLC  
 Location Rio Arriba County, New Mexico Project Number 193706391  
 Surface Elev. 7256.43 ft North 2060697.22 East 1363379.12  
 Top of Casing 7258.82 ft Water Level Initial NA Static 7220.908 10/09/18 00:00  
 Hole Depth 50.0 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in  
 Hole Diameter 8.25 in Casing: Diameter 2 in Length 30.6 ft Type PVC  
 Drill Co. Cascade Drilling Method HSA Sand Pack Pioneer 10/20 sand  
 Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
 Start Date 10/5/2018 Completion Date 10/7/2018 Checked By S. Varsa

COMMENTS

Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

| Depth (ft) | PID (ppm)                      | % Recovery | Blow Count Recovery | Graphic Log | USCS  | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                                                                 | Well Completion |
|------------|--------------------------------|------------|---------------------|-------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          | 0                              | 100%       |                     |             | CL ML | Clay, silty, brown, firm, low plasticity, no hydrocarbon odor or staining. (0-5' hydroexcavated).                                                                                          |                 |
| 5          | 0                              | 100%       |                     |             |       | Sandstone, light reddish-brown, fine-grained, medium hard, weathered, no hydrocarbon odor, iron oxide stains                                                                               |                 |
| 10         | 0                              | 40%        |                     |             |       | At 9', becomes very light brown, fine to medium-grained.<br>From 10-12', sandstone is highly weathered, non-cemented, medium hard and pulverized.                                          |                 |
| 15         | 0                              | 40%        |                     |             |       | At 15', sandstone becomes fine-grained.<br>At 16', becomes very light gray and fine to medium-grained, and at 16.5', becomes light brown, fine to medium-grained, and pulverized.          |                 |
| 20         | 0.6<br>0.8<br>0.8<br>64.1      | 50%        |                     |             |       | At 21', becomes very light gray, very well cemented.<br>At 22', becomes light brown, at 23', material has a slight hydrocarbon odor, is weakly cemented and pulverized, and non-weathered. |                 |
| 25         | 0.8<br>0.7<br>0.8<br>0.9<br>NM | 50%        |                     |             |       | At 25' becomes moderately cemented, pulverized, free of hydrocarbon odor.                                                                                                                  |                 |
| 30         |                                |            |                     |             |       |                                                                                                                                                                                            |                 |

Drilling Log 2018 LATERAL L 40 LOGS GPJ MWH IA.GDT 3/12/19

Continued Next Page



# Drilling Log

Monitoring Well

**MW-9**

Page: 2 of 2

Project Lateral L 40

Client El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 193706391

| Depth<br>(ft) | PID<br>(ppm) | % Recovery | Blow Count<br>Recovery | Graphic<br>Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                     | Well<br>Completion |
|---------------|--------------|------------|------------------------|----------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 30            | NR           |            |                        |                |      | <i>Continued</i>                                                                                                                               |                    |
|               | NR           | 0%         |                        |                |      | From 30-35' there was no recovery.                                                                                                             |                    |
|               | NR           |            |                        |                |      |                                                                                                                                                |                    |
|               | NR           |            |                        |                |      |                                                                                                                                                |                    |
|               | NR           |            |                        |                |      |                                                                                                                                                |                    |
| 35            | 0.8          | 60%        |                        |                |      | At 35', becomes olive and pulverized.                                                                                                          |                    |
|               | 0.8          |            |                        |                |      |                                                                                                                                                |                    |
|               | 3.4          |            |                        |                |      | At 37', becomes gray with possible hydrocarbon stain but no odor is present.                                                                   |                    |
|               | 0.7          |            |                        |                |      | At 38.5', material appears to have moisture and at 40', is gray, medium hard, has a slight hydrocarbon odor, hydrocarbon staining, and is wet. |                    |
| 40            | NM           | 50%        |                        |                |      |                                                                                                                                                |                    |
|               | 15.8         |            |                        |                |      |                                                                                                                                                |                    |
|               | 10.5         |            |                        |                |      |                                                                                                                                                |                    |
|               | 8.6          |            |                        |                |      |                                                                                                                                                |                    |
|               | 4.3          |            |                        |                |      | Material is hard. Water present in the sampler from 43-50'.                                                                                    |                    |
| 45            | NM           | 100%       |                        |                |      |                                                                                                                                                |                    |
|               | 1.1          |            |                        |                |      |                                                                                                                                                |                    |
|               | 6.8          |            |                        |                |      |                                                                                                                                                |                    |
|               | 5.8          |            |                        |                |      |                                                                                                                                                |                    |
|               | 3.2          |            |                        |                |      |                                                                                                                                                |                    |
| 50            | NM           |            |                        |                |      | End of boring = 50'.                                                                                                                           |                    |
| 55            |              |            |                        |                |      |                                                                                                                                                |                    |
| 60            |              |            |                        |                |      |                                                                                                                                                |                    |
| 65            |              |            |                        |                |      |                                                                                                                                                |                    |
| 70            |              |            |                        |                |      |                                                                                                                                                |                    |



# Drilling Log

Monitoring Well **MW-10**

Page: 1 of 2

Project Lateral L 40 Client El Paso CGP Company, LLC  
Location Rio Arriba County, New Mexico Project Number 193706391  
Surface Elev. 7258.83 ft North 2060682.57 East 1363441.50  
Top of Casing 7260.89 ft Water Level Initial NA Static 7220.528 10/11/18 00:00  
Hole Depth 50.0 ft Screen: Diameter 2 in Length 20.0 ft Type/Size PVC/0.01 in  
Hole Diameter 8.25 in Casing: Diameter 2 in Length 30.8 ft Type PVC  
Drill Co. Cascade Drilling Method HSA Sand Pack Pioneer 10/20 sand  
Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
Start Date 10/5/2018 Completion Date 10/10/2018 Checked By S. Varsa

COMMENTS

Bentonite Grout Bentonite Seal Grout Portland Cement Sand Pack Sand Pack

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS  | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                                                                                                                                                                                                   | Well Completion |
|------------|-----------|------------|---------------------|-------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          | 0         | 100%       |                     |             | CL ML | Clay, silty, brown, firm, moist, no hydrocarbon odor or staining. (0-5' hydroexcavated).                                                                                                                                                                                                                                     |                 |
| 5          | 0         | 100%       |                     |             | CL ML | From 5-12.5', dark brown and dry.                                                                                                                                                                                                                                                                                            |                 |
| 10         | 0         | 80%        |                     |             |       |                                                                                                                                                                                                                                                                                                                              |                 |
| 15         | 0         | 50%        |                     |             |       | Sandstone, light brown, fine to medium-grained, dry, highly weathered, friable, no hydrocarbon odor or staining.<br>At 14', becomes less weathered, medium-hard.                                                                                                                                                             |                 |
| 20         | 0         | 80%        |                     |             |       | At 17', Sand (weathered sandstone), poorly sorted, fine to medium-grained, light brown, loose, dry, no hydrocarbon odor or staining.<br><br>At 20', Sandstone, light grayish-brown, becomes light olive brown from 25-30', soft, highly weathered, dry, no hydrocarbon odor or staining, fine to medium-grained, pulverized. |                 |
| 25         | 0         | 50%        |                     |             |       | From 26-27' material has very little cementation.                                                                                                                                                                                                                                                                            |                 |
| 30         |           |            |                     |             |       |                                                                                                                                                                                                                                                                                                                              |                 |

Drilling Log 2018 LATERAL L 40 LOGS GPJ MWH IA.GDT 2/22/19

Continued Next Page



# Drilling Log

Monitoring Well

**MW-10**

Page: 2 of 2

Project Lateral L 40

Client El Paso CGP Company, LLC

Location Rio Arriba County, New Mexico

Project Number 193706391

| Depth<br>(ft) | PID<br>(ppm) | % Recovery | Blow Count<br>Recovery | Graphic<br>Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.    | Well<br>Completion |
|---------------|--------------|------------|------------------------|----------------|------|---------------------------------------------------------------------------------------------------------------|--------------------|
| 30            | 0            |            |                        |                |      | <i>Continued</i>                                                                                              |                    |
| 32            | 3.4          | 60%        |                        |                |      | At 32', becomes light brown, light gray from 34-36'.                                                          |                    |
| 33            | 0.8          |            |                        |                |      |                                                                                                               |                    |
| 35            | 0.5          |            |                        |                |      |                                                                                                               |                    |
| 36            |              | 20%        |                        |                |      |                                                                                                               |                    |
| 37            |              |            |                        |                |      |                                                                                                               |                    |
| 38            |              |            |                        |                |      |                                                                                                               |                    |
| 39            |              |            |                        |                |      |                                                                                                               |                    |
| 40            | 0.5          |            |                        |                |      | Becomes light bluish-gray, moist to wet, balled cuttings, hydrocarbon odor present, drill rig refusal at 40'. |                    |
| 41            | 1.5          | 40%        |                        |                |      |                                                                                                               |                    |
| 42            | 0.8          |            |                        |                |      |                                                                                                               |                    |
| 43            | 1.1          |            |                        |                |      |                                                                                                               |                    |
| 44            |              |            |                        |                |      |                                                                                                               |                    |
| 45            | 0.4          |            |                        |                |      | Light gray at 45'.                                                                                            |                    |
| 46            | 0.8          | 100%       |                        |                |      |                                                                                                               |                    |
| 47            | 2.1          |            |                        |                |      |                                                                                                               |                    |
| 48            | 0.5          |            |                        |                |      |                                                                                                               |                    |
| 49            | 0.1          |            |                        |                |      | Dry at 49'.                                                                                                   |                    |
| 50            |              |            |                        |                |      | End of boring = 50'.                                                                                          |                    |
| 55            |              |            |                        |                |      |                                                                                                               |                    |
| 60            |              |            |                        |                |      |                                                                                                               |                    |
| 65            |              |            |                        |                |      |                                                                                                               |                    |
| 70            |              |            |                        |                |      |                                                                                                               |                    |



# Drilling Log

Vapor Extraction Well **SVE-1**

Page: 1 of 1

Project Lateral L 40 Client El Paso CGP Company, LLC  
 Location Rio Arriba County, New Mexico Project Number 193706391  
 Surface Elev. 7257.06 ft North 2060742.27 East 1363401.99  
 Top of Casing 7259.61 ft Water Level Initial NA NA Static NA NA  
 Hole Depth 30.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in  
 Hole Diameter 10.25 in Casing: Diameter 4 in Length 20.0 ft Type PVC  
 Drill Co. Cascade Drilling Method HSA Sand Pack Pioneer 10/20 sand  
 Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
 Start Date 10/11/2018 Completion Date 10/13/2018 Checked By S. Varsa

COMMENTS

Bentonite Grout 
 Bentonite Granules 
 Grout 
 Portland Cement 
 Sand Pack 
 Sand Pack

| Depth (ft) | PID (ppm) | % Recovery | Blow Count Recovery | Graphic Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                                                                                        | Well Completion |
|------------|-----------|------------|---------------------|-------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          | 0         | 100%       |                     |             |      | Clay with silt, brown, soft, moist, low plasticity, no hydrocarbon odor or staining. (0-5' hydroexcavated).                                                                                                       |                 |
| 5          | 0.5       | 20%        |                     |             | CL   |                                                                                                                                                                                                                   |                 |
| 10         | 1.8       | 20%        |                     |             | SW   | Sand with silt, light gray, poorly sorted, hydrocarbon odor and staining present, strong odor at 11'.                                                                                                             |                 |
| 15         | 377       | 40%        |                     |             |      | Sandstone, gray, poorly sorted, soft, moderately weathered, pulverized, hydrocarbon odor and staining present.<br>At 16', becomes light olive-brown, pulverized, slight hydrocarbon odor but no staining present. |                 |
| 20         | 351       | 30%        |                     |             |      | At 21', becomes light grayish-brown, hard, hydrocarbon odor and staining are present at 21' with a strong odor at 22' but no staining.                                                                            |                 |
| 25         | 348       | 50%        |                     |             |      | From 27-28', a strong hydrocarbon odor, no hydrocarbon staining.                                                                                                                                                  |                 |
| 30         | 551       |            |                     |             |      | End of boring = 30'.                                                                                                                                                                                              |                 |
| 35         | 1975      |            |                     |             |      |                                                                                                                                                                                                                   |                 |

Drilling Log 2018 LATERAL L 40 LOGS GPJ MWH I.A.GDT 3/27/19



# Drilling Log

Vapor Extraction Well

**SVE-2**

Page: 1 of 1

Project Lateral L 40 Client El Paso CGP Company, LLC  
 Location Rio Arriba County, New Mexico Project Number 193706391  
 Surface Elev. 7257.18 ft North 2060767.04 East 1363395.28  
 Top of Casing 7259.82 ft Water Level Initial NA NA Static NA NA  
 Hole Depth 30.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in  
 Hole Diameter 10.25 in Casing: Diameter 4 in Length 12.0 ft Type PVC  
 Drill Co. Cascade Drilling Method HSA Sand Pack Pioneer 10/20 sand  
 Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
 Start Date 10/13/2018 Completion Date 10/13/2018 Checked By S. Varsa

Bentonite Grout
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

COMMENTS

| Depth (ft) | PID (ppm)                 | % Recovery | Blow Count Recovery | Graphic Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                                                                                                                                                                                                       | Well Completion |
|------------|---------------------------|------------|---------------------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          | 0                         | 100%       |                     |             |      | Clay with silt, brown, soft, moist, dry at 7', low plasticity, no hydrocarbon odor or staining. (0-5' hydroexcavated).                                                                                                                                                                                                           |                 |
| 5          | 0                         | 50%        |                     |             | CL   |                                                                                                                                                                                                                                                                                                                                  |                 |
| 10         | 289<br>1251<br>675<br>351 | 60%        |                     |             |      | Sandstone, gray, poorly sorted, fine to medium-grained, soft, highly weathered, moderate hydrocarbon odor and staining.<br>At 11' there is a strong odor, and the sandstone is hard and non-weathered.                                                                                                                           |                 |
| 15         | 631<br>1875<br>482        | 50%        |                     |             |      | At 15' becomes light grayish-brown, a strong hydrocarbon odor is present at 16.                                                                                                                                                                                                                                                  |                 |
| 20         | 695<br>823<br>501         | 50%        |                     |             |      | At 20', becomes light gray to light grayish-brown, soft, pulverized.                                                                                                                                                                                                                                                             |                 |
| 25         | 278<br>341                | 50%        |                     |             |      | At 25' becomes olive-brown, fine to medium-grained, poorly sorted, medium hard, moderate hydrocarbon odor, no hydrocarbon staining.<br>At 26', become slight grayish-brown, with moderate hydrocarbon odor and hydrocarbon staining.<br>At 27', driller notes a hard lens is present, sandstone is pulverized and reddish-brown. |                 |
| 30         |                           |            |                     |             |      | End of boring = 30'.                                                                                                                                                                                                                                                                                                             |                 |
| 35         |                           |            |                     |             |      |                                                                                                                                                                                                                                                                                                                                  |                 |

Drilling Log 2018 LATERAL L 40 LOGS GPJ MWH I.A.GDT 3/27/19



# Drilling Log

Vapor Extraction Well

**SVE-3**

Page: 1 of 1

Project Lateral L 40 Client El Paso CGP Company, LLC  
 Location Rio Arriba County, New Mexico Project Number 193706391  
 Surface Elev. 7257.28 ft North 2060781.85 East 1363381.15  
 Top of Casing 7259.89 ft Water Level Initial NA NA Static NA NA  
 Hole Depth 30.0 ft Screen: Diameter 4 in Length 10.0 ft Type/Size PVC/0.02 in  
 Hole Diameter 10.25 in Casing: Diameter 4 in Length 12.0 ft Type PVC  
 Drill Co. Cascade Drilling Method HSA Sand Pack Pioneer 10/20 sand  
 Driller Matt Cain Driller Reg. # WD-1210 Log By Marc Hes  
 Start Date 10/13/2018 Completion Date 10/13/2018 Checked By S. Varsa  
 Bentonite Grout Bentonite Granules Grout Portland Cement Sand Pack Sand Pack

COMMENTS

| Depth (ft) | PID (ppm)                                                         | % Recovery         | Blow Count Recovery | Graphic Log | USCS | Description<br>(Color, Moisture, Texture, Structure, Odor)<br>Geologic Descriptions are Based on the USCS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Well Completion |
|------------|-------------------------------------------------------------------|--------------------|---------------------|-------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 0          |                                                                   | 100%               |                     |             | CL   | Clay with silt, brown, moist, low plasticity, no hydrocarbon odor or staining. (0-8' hydroexcavated).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
| 5          |                                                                   |                    |                     |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |
| 10         | 0.8<br>0.5<br>0.5<br>10<br>14<br>1380<br>671<br>674<br>381<br>260 | 100%<br>80%<br>40% |                     | <br><br>    | CL   | Clay with silt, brown, soft, moist, low plasticity, no hydrocarbon odor or staining.<br>Sandstone, light gray, fine to medium-grained, poorly sorted, soft, dry, friable, highly weathered, no hydrocarbon odor and staining.<br>At 10.5' becomes hard and very well cemented, light grayish-brown, dry.<br>At 13', becomes light gray, dry, medium hard, with a strong hydrocarbon odor and hydrocarbon staining.<br>At 15' there is a moderate hydrocarbon odor and hydrocarbon staining is present, sandstone becomes light grayish-brown.<br>At 17' a slight hydrocarbon odor is noted. |                 |
| 15         | 20<br>130<br>340                                                  | 50%                |                     |             |      | At 20', becomes light brown, fine to medium-grained, soft, friable, with a very slight hydrocarbon odor.<br>At 22' there is a moderate hydrocarbon odor.                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |
| 20         | 80<br>240<br>303                                                  | 50%                |                     |             |      | At 25', becomes light brown, with a slight hydrocarbon odor, no hydrocarbon staining noted.<br>At 26' a moderate hydrocarbon odor is noted but no hydrocarbon staining, sandstone is pulverized.                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| 25         |                                                                   |                    |                     |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |
| 30         |                                                                   |                    |                     |             |      | End of boring = 30'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |
| 35         |                                                                   |                    |                     |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |

Drilling Log 2018 LATERAL L 40 LOGS GPJ MWH I.A.GDT 3/27/19

# APPENDIX C

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-160383-1

Client Project/Site: EIPaso CGP Company, LLC - Lat L40

For:

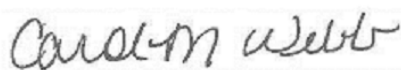
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

10/24/2018 10:54:24 AM

Carol Webb, Project Manager II

(850)471-6250

[carol.webb@testamericainc.com](mailto:carol.webb@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 2  |
| Definitions . . . . .           | 3  |
| Case Narrative . . . . .        | 4  |
| Detection Summary . . . . .     | 5  |
| Sample Summary . . . . .        | 6  |
| Client Sample Results . . . . . | 7  |
| QC Association . . . . .        | 11 |
| QC Sample Results . . . . .     | 13 |
| Chronicle . . . . .             | 17 |
| Certification Summary . . . . . | 20 |
| Method Summary . . . . .        | 21 |
| Chain of Custody . . . . .      | 22 |
| Receipt Checklists . . . . .    | 24 |



## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                                      |
| 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  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Job ID: 400-160383-1**

**Laboratory: TestAmerica Pensacola**

### Narrative

#### Job Narrative 400-160383-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/10/2018 8:58 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.0° C.

#### HPLC/IC

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

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 400-415770 and the MS/MSD recovered above the upper control limit for Benzene, Toluene, Ethylbenzene and Xylenes, Total. The MS/MSD percent recoveries and RPDs were within acceptance limits. Therefore, the data have been reported.

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

#### GC Semi VOA

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

#### Organic Prep

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

#### VOA Prep

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

#### Lab Admin

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

## Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-6 (25')**

**Lab Sample ID: 400-160383-1**

☐ No Detections.

**Client Sample ID: MW-8 (24-25')**

**Lab Sample ID: 400-160383-2**

☐ No Detections.

**Client Sample ID: MW-9 (23-24')**

**Lab Sample ID: 400-160383-3**

☐ No Detections.

**Client Sample ID: MW-10 (32-33')**

**Lab Sample ID: 400-160383-4**

☐ No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 400-160383-1  | MW-6 (25')       | Solid  | 10/05/18 13:10 | 10/10/18 08:58 |
| 400-160383-2  | MW-8 (24-25')    | Solid  | 10/05/18 12:00 | 10/10/18 08:58 |
| 400-160383-3  | MW-9 (23-24')    | Solid  | 10/05/18 16:00 | 10/10/18 08:58 |
| 400-160383-4  | MW-10 (32-33')   | Solid  | 10/05/18 14:45 | 10/10/18 08:58 |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-6 (25')**

**Date Collected: 10/05/18 13:10**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-1**

**Matrix: Solid**

**Percent Solids: 84.6**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.11     |           | 0.11     | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:33 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 93        |           | 65 - 125 |       |   | 10/17/18 10:00 | 10/17/18 18:33 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:33 | 1       |
| Ethylbenzene                 | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:33 | 1       |
| Toluene                      | <0.0053   |           | 0.0053   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:33 | 1       |
| Xylenes, Total               | <0.0053   |           | 0.0053   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:33 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 91        |           | 40 - 150 |       |   | 10/17/18 10:00 | 10/17/18 18:33 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <5.8      |           | 5.8      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 19:45 | 1       |
| C28-C35     | <5.8      |           | 5.8      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 19:45 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 85        |           | 27 - 151 |       |   | 10/11/18 08:57 | 10/11/18 19:45 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <24    |           | 24 | mg/Kg | ☼ |          | 10/22/18 04:00 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-8 (24-25')**

**Date Collected: 10/05/18 12:00**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-2**

**Matrix: Solid**

**Percent Solids: 83.8**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.095    |           | 0.095    | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:59 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 91        |           | 65 - 125 |       |   | 10/17/18 10:00 | 10/17/18 18:59 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.00095  |           | 0.00095  | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:59 | 1       |
| Ethylbenzene                 | <0.00095  |           | 0.00095  | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:59 | 1       |
| Toluene                      | <0.0048   |           | 0.0048   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:59 | 1       |
| Xylenes, Total               | <0.0048   |           | 0.0048   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 18:59 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 89        |           | 40 - 150 |       |   | 10/17/18 10:00 | 10/17/18 18:59 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <5.9      |           | 5.9      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 19:58 | 1       |
| C28-C35     | <5.9      |           | 5.9      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 19:58 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 85        |           | 27 - 151 |       |   | 10/11/18 08:57 | 10/11/18 19:58 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <24    |           | 24 | mg/Kg | ☼ |          | 10/22/18 05:08 | 1       |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-9 (23-24')**

**Date Collected: 10/05/18 16:00**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-3**

**Matrix: Solid**

**Percent Solids: 76.1**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.12     |           | 0.12     | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:25 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 92        |           | 65 - 125 |       |   | 10/17/18 10:00 | 10/17/18 19:25 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0012   |           | 0.0012   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:25 | 1       |
| Ethylbenzene                 | <0.0012   |           | 0.0012   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:25 | 1       |
| Toluene                      | <0.0058   |           | 0.0058   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:25 | 1       |
| Xylenes, Total               | <0.0058   |           | 0.0058   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:25 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 86        |           | 40 - 150 |       |   | 10/17/18 10:00 | 10/17/18 19:25 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <6.5      |           | 6.5      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 20:11 | 1       |
| C28-C35     | <6.5      |           | 6.5      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 20:11 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 70        |           | 27 - 151 |       |   | 10/11/18 08:57 | 10/11/18 20:11 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <26    |           | 26 | mg/Kg | ☼ |          | 10/22/18 05:31 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-10 (32-33')**

**Date Collected: 10/05/18 14:45**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-4**

**Matrix: Solid**

**Percent Solids: 70.2**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.12     |           | 0.12     | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:50 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 96        |           | 65 - 125 |       |   | 10/17/18 10:00 | 10/17/18 19:50 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0012   |           | 0.0012   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:50 | 1       |
| Ethylbenzene                 | <0.0012   |           | 0.0012   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:50 | 1       |
| Toluene                      | <0.0062   |           | 0.0062   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:50 | 1       |
| Xylenes, Total               | <0.0062   |           | 0.0062   | mg/Kg | ☼ | 10/17/18 10:00 | 10/17/18 19:50 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 93        |           | 40 - 150 |       |   | 10/17/18 10:00 | 10/17/18 19:50 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <7.0      |           | 7.0      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 20:24 | 1       |
| C28-C35     | <7.0      |           | 7.0      | mg/Kg | ☼ | 10/11/18 08:57 | 10/11/18 20:24 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 78        |           | 27 - 151 |       |   | 10/11/18 08:57 | 10/11/18 20:24 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <29    |           | 29 | mg/Kg | ☼ |          | 10/22/18 05:54 | 1       |

# QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

## GC VOA

### Analysis Batch: 415770

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160383-1       | MW-6 (25')         | Total/NA  | Solid  | 8021B  | 415958     |
| 400-160383-2       | MW-8 (24-25')      | Total/NA  | Solid  | 8021B  | 415958     |
| 400-160383-3       | MW-9 (23-24')      | Total/NA  | Solid  | 8021B  | 415958     |
| 400-160383-4       | MW-10 (32-33')     | Total/NA  | Solid  | 8021B  | 415958     |
| MB 400-415958/3-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 415958     |
| LCS 400-415958/2-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 415958     |
| 400-160383-1 MS    | MW-6 (25')         | Total/NA  | Solid  | 8021B  | 415958     |
| 400-160383-1 MSD   | MW-6 (25')         | Total/NA  | Solid  | 8021B  | 415958     |

### Analysis Batch: 415771

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160383-1       | MW-6 (25')         | Total/NA  | Solid  | 8015B  | 415958     |
| 400-160383-2       | MW-8 (24-25')      | Total/NA  | Solid  | 8015B  | 415958     |
| 400-160383-3       | MW-9 (23-24')      | Total/NA  | Solid  | 8015B  | 415958     |
| 400-160383-4       | MW-10 (32-33')     | Total/NA  | Solid  | 8015B  | 415958     |
| MB 400-415958/3-A  | Method Blank       | Total/NA  | Solid  | 8015B  | 415958     |
| LCS 400-415958/1-A | Lab Control Sample | Total/NA  | Solid  | 8015B  | 415958     |
| 400-160383-1 MS    | MW-6 (25')         | Total/NA  | Solid  | 8015B  | 415958     |
| 400-160383-1 MSD   | MW-6 (25')         | Total/NA  | Solid  | 8015B  | 415958     |

### Prep Batch: 415958

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160383-1       | MW-6 (25')         | Total/NA  | Solid  | 5035   |            |
| 400-160383-2       | MW-8 (24-25')      | Total/NA  | Solid  | 5035   |            |
| 400-160383-3       | MW-9 (23-24')      | Total/NA  | Solid  | 5035   |            |
| 400-160383-4       | MW-10 (32-33')     | Total/NA  | Solid  | 5035   |            |
| MB 400-415958/3-A  | Method Blank       | Total/NA  | Solid  | 5035   |            |
| LCS 400-415958/1-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| LCS 400-415958/2-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| 400-160383-1 MS    | MW-6 (25')         | Total/NA  | Solid  | 5035   |            |
| 400-160383-1 MS    | MW-6 (25')         | Total/NA  | Solid  | 5035   |            |
| 400-160383-1 MSD   | MW-6 (25')         | Total/NA  | Solid  | 5035   |            |
| 400-160383-1 MSD   | MW-6 (25')         | Total/NA  | Solid  | 5035   |            |

## GC Semi VOA

### Prep Batch: 414932

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160383-1         | MW-6 (25')             | Total/NA  | Solid  | 3546   |            |
| 400-160383-2         | MW-8 (24-25')          | Total/NA  | Solid  | 3546   |            |
| 400-160383-3         | MW-9 (23-24')          | Total/NA  | Solid  | 3546   |            |
| 400-160383-4         | MW-10 (32-33')         | Total/NA  | Solid  | 3546   |            |
| MB 400-414932/1-A    | Method Blank           | Total/NA  | Solid  | 3546   |            |
| LCS 400-414932/2-A   | Lab Control Sample     | Total/NA  | Solid  | 3546   |            |
| 400-160392-A-4-A MS  | Matrix Spike           | Total/NA  | Solid  | 3546   |            |
| 400-160392-A-4-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 3546   |            |

### Analysis Batch: 415068

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 400-160383-1  | MW-6 (25')       | Total/NA  | Solid  | 8015B  | 414932     |

TestAmerica Pensacola

# QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

## GC Semi VOA (Continued)

### Analysis Batch: 415068 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160383-2         | MW-8 (24-25')          | Total/NA  | Solid  | 8015B  | 414932     |
| 400-160383-3         | MW-9 (23-24')          | Total/NA  | Solid  | 8015B  | 414932     |
| 400-160383-4         | MW-10 (32-33')         | Total/NA  | Solid  | 8015B  | 414932     |
| MB 400-414932/1-A    | Method Blank           | Total/NA  | Solid  | 8015B  | 414932     |
| LCS 400-414932/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B  | 414932     |
| 400-160392-A-4-A MS  | Matrix Spike           | Total/NA  | Solid  | 8015B  | 414932     |
| 400-160392-A-4-B MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B  | 414932     |

## HPLC/IC

### Leach Batch: 416311

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 400-160383-1        | MW-6 (25')             | Soluble   | Solid  | DI Leach |            |
| 400-160383-2        | MW-8 (24-25')          | Soluble   | Solid  | DI Leach |            |
| 400-160383-3        | MW-9 (23-24')          | Soluble   | Solid  | DI Leach |            |
| 400-160383-4        | MW-10 (32-33')         | Soluble   | Solid  | DI Leach |            |
| MB 400-416311/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 400-416311/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 400-416311/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 400-160383-1 MS     | MW-6 (25')             | Soluble   | Solid  | DI Leach |            |
| 400-160383-1 MSD    | MW-6 (25')             | Soluble   | Solid  | DI Leach |            |

### Analysis Batch: 416374

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 400-160383-1        | MW-6 (25')             | Soluble   | Solid  | 300.0  | 416311     |
| 400-160383-2        | MW-8 (24-25')          | Soluble   | Solid  | 300.0  | 416311     |
| 400-160383-3        | MW-9 (23-24')          | Soluble   | Solid  | 300.0  | 416311     |
| 400-160383-4        | MW-10 (32-33')         | Soluble   | Solid  | 300.0  | 416311     |
| MB 400-416311/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 416311     |
| LCS 400-416311/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 416311     |
| LCSD 400-416311/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 416311     |
| 400-160383-1 MS     | MW-6 (25')             | Soluble   | Solid  | 300.0  | 416311     |
| 400-160383-1 MSD    | MW-6 (25')             | Soluble   | Solid  | 300.0  | 416311     |

## General Chemistry

### Analysis Batch: 415006

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 400-160383-1       | MW-6 (25')             | Total/NA  | Solid  | Moisture |            |
| 400-160383-2       | MW-8 (24-25')          | Total/NA  | Solid  | Moisture |            |
| 400-160383-3       | MW-9 (23-24')          | Total/NA  | Solid  | Moisture |            |
| 400-160383-4       | MW-10 (32-33')         | Total/NA  | Solid  | Moisture |            |
| 400-160424-A-5 MS  | Matrix Spike           | Total/NA  | Solid  | Moisture |            |
| 400-160424-A-5 MSD | Matrix Spike Duplicate | Total/NA  | Solid  | Moisture |            |
| 400-160383-2 DU    | MW-8 (24-25')          | Total/NA  | Solid  | Moisture |            |

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

## Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-415958/3-A

Matrix: Solid

Analysis Batch: 415771

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 415958

| Analyte                      | MB Result | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.10     |              | 0.10     | mg/Kg |   | 10/17/18 10:00 | 10/17/18 12:22 | 1       |
| Surrogate                    | %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 93        |              | 65 - 125 |       |   | 10/17/18 10:00 | 10/17/18 12:22 | 1       |

Lab Sample ID: LCS 400-415958/1-A

Matrix: Solid

Analysis Batch: 415771

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 415958

| Analyte                      | Spike Added | LCS Result    | LCS Qualifier | Unit  | D | %Rec | Limits   |  |
|------------------------------|-------------|---------------|---------------|-------|---|------|----------|--|
| C6-C10                       | 1.00        | 1.08          |               | mg/Kg |   | 108  | 62 - 141 |  |
| Surrogate                    | %Recovery   | LCS Qualifier | Limits        |       |   |      |          |  |
| a,a,a-Trifluorotoluene (fid) | 92          |               | 65 - 125      |       |   |      |          |  |

Lab Sample ID: 400-160383-1 MS

Matrix: Solid

Analysis Batch: 415771

Client Sample ID: MW-6 (25')

Prep Type: Total/NA

Prep Batch: 415958

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|--|
| C6-C10                       | <0.11         |                  | 1.04        | 1.37      |              | mg/Kg | ☼ | 132  | 10 - 150 |  |
| Surrogate                    | %Recovery     | MS Qualifier     | Limits      |           |              |       |   |      |          |  |
| a,a,a-Trifluorotoluene (fid) | 90            |                  | 65 - 125    |           |              |       |   |      |          |  |

Lab Sample ID: 400-160383-1 MSD

Matrix: Solid

Analysis Batch: 415771

Client Sample ID: MW-6 (25')

Prep Type: Total/NA

Prep Batch: 415958

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| C6-C10                       | <0.11         |                  | 1.04        | 1.34       |               | mg/Kg | ☼ | 128  | 10 - 150 | 3   | 32    |
| Surrogate                    | %Recovery     | MSD Qualifier    | Limits      |            |               |       |   |      |          |     |       |
| a,a,a-Trifluorotoluene (fid) | 90            |                  | 65 - 125    |            |               |       |   |      |          |     |       |

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-415958/3-A

Matrix: Solid

Analysis Batch: 415770

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 415958

| Analyte        | MB Result | MB Qualifier | RL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|--------|-------|---|----------------|----------------|---------|
| Benzene        | <0.0010   |              | 0.0010 | mg/Kg |   | 10/17/18 10:00 | 10/17/18 12:22 | 1       |
| Ethylbenzene   | <0.0010   |              | 0.0010 | mg/Kg |   | 10/17/18 10:00 | 10/17/18 12:22 | 1       |
| Toluene        | <0.0050   |              | 0.0050 | mg/Kg |   | 10/17/18 10:00 | 10/17/18 12:22 | 1       |
| Xylenes, Total | <0.0050   |              | 0.0050 | mg/Kg |   | 10/17/18 10:00 | 10/17/18 12:22 | 1       |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 400-415958/3-A  
Matrix: Solid  
Analysis Batch: 415770

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 415958

| Surrogate                    | MB MB<br>%Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------------|-----------|----------|----------------|----------------|---------|
| a,a,a-Trifluorotoluene (pid) | 89                 |           | 40 - 150 | 10/17/18 10:00 | 10/17/18 12:22 | 1       |

Lab Sample ID: LCS 400-415958/2-A  
Matrix: Solid  
Analysis Batch: 415770

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 415958

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | Limits   |
|----------------|----------------|---------------|------------------|-------|---|------|----------|
| Benzene        | 0.0500         | 0.0553        |                  | mg/Kg |   | 111  | 74 - 127 |
| Ethylbenzene   | 0.0500         | 0.0595        |                  | mg/Kg |   | 119  | 79 - 131 |
| Toluene        | 0.0500         | 0.0559        |                  | mg/Kg |   | 112  | 76 - 127 |
| Xylenes, Total | 0.150          | 0.172         |                  | mg/Kg |   | 115  | 80 - 129 |

| Surrogate                    | LCS LCS<br>%Recovery | Qualifier | Limits   |
|------------------------------|----------------------|-----------|----------|
| a,a,a-Trifluorotoluene (pid) | 89                   |           | 40 - 150 |

Lab Sample ID: 400-160383-1 MS  
Matrix: Solid  
Analysis Batch: 415770

Client Sample ID: MW-6 (25')  
Prep Type: Total/NA  
Prep Batch: 415958

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | Limits   |
|----------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|
| Benzene        | <0.0011          |                     | 0.0521         | 0.0642       |                 | mg/Kg | ☼ | 123  | 10 - 150 |
| Ethylbenzene   | <0.0011          |                     | 0.0521         | 0.0674       |                 | mg/Kg | ☼ | 129  | 10 - 150 |
| Toluene        | <0.0053          |                     | 0.0521         | 0.0653       |                 | mg/Kg | ☼ | 125  | 10 - 150 |
| Xylenes, Total | <0.0053          |                     | 0.156          | 0.195        |                 | mg/Kg | ☼ | 125  | 50 - 150 |

| Surrogate                    | MS MS<br>%Recovery | Qualifier | Limits   |
|------------------------------|--------------------|-----------|----------|
| a,a,a-Trifluorotoluene (pid) | 91                 |           | 40 - 150 |

Lab Sample ID: 400-160383-1 MSD  
Matrix: Solid  
Analysis Batch: 415770

Client Sample ID: MW-6 (25')  
Prep Type: Total/NA  
Prep Batch: 415958

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|----------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|-----|-------|
| Benzene        | <0.0011          |                     | 0.0528         | 0.0650        |                  | mg/Kg | ☼ | 123  | 10 - 150 | 1   | 34    |
| Ethylbenzene   | <0.0011          |                     | 0.0528         | 0.0699        |                  | mg/Kg | ☼ | 132  | 10 - 150 | 4   | 66    |
| Toluene        | <0.0053          |                     | 0.0528         | 0.0661        |                  | mg/Kg | ☼ | 125  | 10 - 150 | 1   | 44    |
| Xylenes, Total | <0.0053          |                     | 0.159          | 0.202         |                  | mg/Kg | ☼ | 128  | 50 - 150 | 4   | 46    |

| Surrogate                    | MSD MSD<br>%Recovery | Qualifier | Limits   |
|------------------------------|----------------------|-----------|----------|
| a,a,a-Trifluorotoluene (pid) | 88                   |           | 40 - 150 |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-414932/1-A

Matrix: Solid

Analysis Batch: 415068

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 414932

| Analyte     | MB Result | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|--------------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <5.0      |              | 5.0      | mg/Kg |   | 10/11/18 08:57 | 10/11/18 18:29 | 1       |
| C28-C35     | <5.0      |              | 5.0      | mg/Kg |   | 10/11/18 08:57 | 10/11/18 18:29 | 1       |
| Surrogate   | %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 89        |              | 27 - 151 |       |   | 10/11/18 08:57 | 10/11/18 18:29 | 1       |

Lab Sample ID: LCS 400-414932/2-A

Matrix: Solid

Analysis Batch: 415068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 414932

| Analyte     | Spike Added | LCS Result    | LCS Qualifier | Unit  | D | %Rec | Limits   |  |
|-------------|-------------|---------------|---------------|-------|---|------|----------|--|
| C10-C28     | 294         | 291           |               | mg/Kg |   | 99   | 63 - 153 |  |
| Surrogate   | %Recovery   | LCS Qualifier | Limits        |       |   |      |          |  |
| o-Terphenyl | 91          |               | 27 - 151      |       |   |      |          |  |

Lab Sample ID: 400-160392-A-4-A MS

Matrix: Solid

Analysis Batch: 415068

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 414932

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |  |
|-------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|--|
| C10-C28     | 15            |                  | 375         | 324       |              | mg/Kg | ☼ | 82   | 62 - 204 |  |
| Surrogate   | %Recovery     | MS Qualifier     | Limits      |           |              |       |   |      |          |  |
| o-Terphenyl | 76            |                  | 27 - 151    |           |              |       |   |      |          |  |

Lab Sample ID: 400-160392-A-4-B MSD

Matrix: Solid

Analysis Batch: 415068

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 414932

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|-------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| C10-C28     | 15            |                  | 371         | 295        |               | mg/Kg | ☼ | 75   | 62 - 204 | 9   | 30    |
| Surrogate   | %Recovery     | MSD Qualifier    | Limits      |            |               |       |   |      |          |     |       |
| o-Terphenyl | 72            |                  | 27 - 151    |            |               |       |   |      |          |     |       |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-416311/1-A

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|----|-------|---|----------|----------------|---------|
| Chloride | <21       |              | 21 | mg/Kg |   |          | 10/22/18 02:51 | 1       |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-416311/2-A

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 101         | 99.0       |               | mg/Kg |   | 98   | 80 - 120     |

Lab Sample ID: LCSD 400-416311/3-A

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 104         | 102         |                | mg/Kg |   | 98   | 80 - 120     | 3   | 15        |

Lab Sample ID: 400-160383-1 MS

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: MW-6 (25')

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | <24           |                  | 118         | 115       |              | mg/Kg | ☼ | 97   | 80 - 120     |

Lab Sample ID: 400-160383-1 MSD

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: MW-6 (25')

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | <24           |                  | 114         | 113        |               | mg/Kg | ☼ | 98   | 80 - 120     | 2   | 15        |

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-6 (25')**

**Date Collected: 10/05/18 13:10**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-1**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415006       | 10/11/18 13:00       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-6 (25')**

**Date Collected: 10/05/18 13:10**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-1**

**Matrix: Solid**

**Percent Solids: 84.6**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 5.60 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          | 5 mL           | 5 mL         | 415771       | 10/17/18 18:33       | GRK     | TAL PEN |
| Instrument ID: CH_RITA |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 5.60 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 415770       | 10/17/18 18:33       | GRK     | TAL PEN |
| Instrument ID: CH_RITA |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 3546         |     |            | 15.29 g        | 1.0 mL       | 414932       | 10/11/18 08:57       | KLR     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          |                |              | 415068       | 10/11/18 19:45       | TAJ     | TAL PEN |
| Instrument ID: Eva     |            |              |     |            |                |              |              |                      |         |         |
| Soluble                | Leach      | DI Leach     |     |            | 2.51 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble                | Analysis   | 300.0        |     | 1          |                |              | 416374       | 10/22/18 04:00       | BAW     | TAL PEN |
| Instrument ID: IC2     |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-8 (24-25')**

**Date Collected: 10/05/18 12:00**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-2**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415006       | 10/11/18 13:44       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-8 (24-25')**

**Date Collected: 10/05/18 12:00**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-2**

**Matrix: Solid**

**Percent Solids: 83.8**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 6.26 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          | 5 mL           | 5 mL         | 415771       | 10/17/18 18:59       | GRK     | TAL PEN |
| Instrument ID: CH_RITA |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 6.26 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 415770       | 10/17/18 18:59       | GRK     | TAL PEN |
| Instrument ID: CH_RITA |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 3546         |     |            | 15.25 g        | 1.0 mL       | 414932       | 10/11/18 08:57       | KLR     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          |                |              | 415068       | 10/11/18 19:58       | TAJ     | TAL PEN |
| Instrument ID: Eva     |            |              |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-8 (24-25')**

**Date Collected: 10/05/18 12:00**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-2**

**Matrix: Solid**

**Percent Solids: 83.8**

| Prep Type          | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble            | Leach      | DI Leach     |     |            | 2.45 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble            | Analysis   | 300.0        |     | 1          |                |              | 416374       | 10/22/18 05:08       | BAW     | TAL PEN |
| Instrument ID: IC2 |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-9 (23-24')**

**Date Collected: 10/05/18 16:00**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-3**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415006       | 10/11/18 13:44       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-9 (23-24')**

**Date Collected: 10/05/18 16:00**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-3**

**Matrix: Solid**

**Percent Solids: 76.1**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 5.63 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          | 5 mL           | 5 mL         | 415771       | 10/17/18 19:25       | GRK     | TAL PEN |
| Instrument ID: CH_RITA |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 5.63 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 415770       | 10/17/18 19:25       | GRK     | TAL PEN |
| Instrument ID: CH_RITA |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 3546         |     |            | 15.27 g        | 1.0 mL       | 414932       | 10/11/18 08:57       | KLR     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          |                |              | 415068       | 10/11/18 20:11       | TAJ     | TAL PEN |
| Instrument ID: Eva     |            |              |     |            |                |              |              |                      |         |         |
| Soluble                | Leach      | DI Leach     |     |            | 2.50 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble                | Analysis   | 300.0        |     | 1          |                |              | 416374       | 10/22/18 05:31       | BAW     | TAL PEN |
| Instrument ID: IC2     |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-10 (32-33')**

**Date Collected: 10/05/18 14:45**

**Date Received: 10/10/18 08:58**

**Lab Sample ID: 400-160383-4**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415006       | 10/11/18 13:44       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

**Client Sample ID: MW-10 (32-33')**

**Lab Sample ID: 400-160383-4**

**Date Collected: 10/05/18 14:45**

**Matrix: Solid**

**Date Received: 10/10/18 08:58**

**Percent Solids: 70.2**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035                   |     |            | 5.70 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 1          | 5 mL           | 5 mL         | 415771       | 10/17/18 19:50       | GRK     | TAL PEN |
|           |            | Instrument ID: CH_RITA |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 5035                   |     |            | 5.70 g         | 5.0 g        | 415958       | 10/17/18 10:00       | GRK     | TAL PEN |
| Total/NA  | Analysis   | 8021B                  |     | 1          | 5 mL           | 5 mL         | 415770       | 10/17/18 19:50       | GRK     | TAL PEN |
|           |            | Instrument ID: CH_RITA |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 3546                   |     |            | 15.28 g        | 1.0 mL       | 414932       | 10/11/18 08:57       | KLR     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 1          |                |              | 415068       | 10/11/18 20:24       | TAJ     | TAL PEN |
|           |            | Instrument ID: Eva     |     |            |                |              |              |                      |         |         |
| Soluble   | Leach      | DI Leach               |     |            | 2.44 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble   | Analysis   | 300.0                  |     | 1          |                |              | 416374       | 10/22/18 05:54       | BAW     | TAL PEN |
|           |            | Instrument ID: IC2     |     |            |                |              |              |                      |         |         |

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

### Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-19        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-19        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-19        |
| California             | State Program | 9          | 2510                  | 06-30-19        |
| Florida                | NELAP         | 4          | E81010                | 06-30-19        |
| Georgia                | State Program | 4          | E81010 (FL)           | 06-30-19        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-19        |
| Iowa                   | State Program | 7          | 367                   | 08-01-20        |
| Kansas                 | NELAP         | 7          | E-10253               | 10-31-18        |
| Kentucky (UST)         | State Program | 4          | 53                    | 06-30-19        |
| Kentucky (WW)          | State Program | 4          | 98030                 | 12-31-18        |
| Louisiana              | NELAP         | 6          | 30976                 | 06-30-19        |
| Louisiana (DW)         | NELAP         | 6          | LA170005              | 12-31-18        |
| Maryland               | State Program | 3          | 233                   | 09-30-19        |
| Massachusetts          | State Program | 1          | M-FL094               | 06-30-19        |
| Michigan               | State Program | 5          | 9912                  | 06-30-19        |
| New Jersey             | NELAP         | 2          | FL006                 | 06-30-19        |
| North Carolina (WW/SW) | State Program | 4          | 314                   | 12-31-18        |
| Oklahoma               | State Program | 6          | 9810                  | 08-31-19        |
| Pennsylvania           | NELAP         | 3          | 68-00467              | 01-31-19        |
| Rhode Island           | State Program | 1          | LAO00307              | 12-30-18        |
| South Carolina         | State Program | 4          | 96026                 | 06-30-19        |
| Tennessee              | State Program | 4          | TN02907               | 06-30-19        |
| Texas                  | NELAP         | 6          | T104704286-18-16      | 09-30-19        |
| US Fish & Wildlife     | Federal       |            | LE058448-0            | 07-31-19        |
| USDA                   | Federal       |            | P330-18-00148         | 05-17-21        |
| Virginia               | NELAP         | 3          | 460166                | 06-14-19        |
| Washington             | State Program | 10         | C915                  | 05-15-19        |
| West Virginia DEP      | State Program | 3          | 136                   | 06-30-19        |

## Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-160383-1

| Method   | Method Description                 | Protocol | Laboratory |
|----------|------------------------------------|----------|------------|
| 8015B    | Gasoline Range Organics - (GC)     | SW846    | TAL PEN    |
| 8021B    | Volatile Organic Compounds (GC)    | SW846    | TAL PEN    |
| 8015B    | Diesel Range Organics (DRO) (GC)   | SW846    | TAL PEN    |
| 300.0    | Anions, Ion Chromatography         | MCAWW    | TAL PEN    |
| Moisture | Percent Moisture                   | EPA      | TAL PEN    |
| 3546     | Microwave Extraction               | SW846    | TAL PEN    |
| 5035     | Closed System Purge and Trap       | SW846    | TAL PEN    |
| DI Leach | Deionized Water Leaching Procedure | ASTM     | TAL PEN    |

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

### Laboratory References:

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

## Chain of Custody Record

|                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                |  |                                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Sarah Gardner<br>Company: Stantec Consulting Services Inc<br>Address: 1560 Broadway Suite 1800<br>City: Denver<br>State, Zip: CO, 80202<br>Phone: 303-291-2239(Tel)<br>Email: sarah.gardner@mwhglobal.com<br>Project Name: Lat L 40<br>Site:                                        |  | Samples: Marc Hes<br>Lab PM: Webb, Carol M<br>Phone: 303 885 4991<br>E-Mail: carol.webb@testamericainc.com                                                                                                                                                                                                                     |  | Carrier Tracking No(s): 400-77305-30160.1<br>Page: Page 1 of 1<br>Job #: |  |
| Due Date Requested: per Arf<br>TAT Requested (days): per Arf<br>PO #: See Project Notes<br>WO #: 40005479<br>Project #: 40005479<br>SSOW#:                                                                                                                                                                                           |  | <b>Analysis Requested</b><br>Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:                                                                                         |  |                                                                          |  |
| <b>Sample Identification</b><br>MW-6 (251)<br>MW-8 (24-25)<br>MW-9 (23-24)<br>MW-10 (32-33)                                                                                                                                                                                                                                          |  | Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/><br>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/><br>8015B_DRO - TPH DRO ORO <input checked="" type="checkbox"/><br>8015B_GRO, 8021B <input checked="" type="checkbox"/><br>300_ORGFM_28D - Chloride <input checked="" type="checkbox"/> |  |                                                                          |  |
| Sample Date<br>10/5/18<br>10/7/18<br>10/5/18<br>10/5/18                                                                                                                                                                                                                                                                              |  | Sample Time<br>1310<br>1200<br>1600<br>1445                                                                                                                                                                                                                                                                                    |  | Sample Type (C=comp, G=grab)<br>6<br>6<br>6<br>6                         |  |
| Matrix (W=water, S=solid, O=other)<br>S<br>S<br>S<br>S                                                                                                                                                                                                                                                                               |  | Preservation Code:<br>S<br>S<br>S<br>S                                                                                                                                                                                                                                                                                         |  |                                                                          |  |
| Total Number of Containers<br>3<br>3<br>3<br>3                                                                                                                                                                                                                                                                                       |  | Special Instructions/Note:<br>400-160383 COC                                                                                                                                                                                                                                                                                   |  |                                                                          |  |
| <b>Possible Hazard Identification</b><br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested: I, II, III, IV, Other (specify) |  |                                                                                                                                                                                                                                                                                                                                |  |                                                                          |  |
| <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b><br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months                                                                                              |  |                                                                                                                                                                                                                                                                                                                                |  |                                                                          |  |
| Special Instructions/QC Requirements: per Arf                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                |  |                                                                          |  |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                |  |                                                                          |  |
| Relinquished by: Marc Hes<br>Date/Time: 10-8-18 0600<br>Company: Stantec                                                                                                                                                                                                                                                             |  | Received by:<br>Date/Time: 10/10/18 858<br>Company:                                                                                                                                                                                                                                                                            |  |                                                                          |  |
| Relinquished by:<br>Date/Time:<br>Company:                                                                                                                                                                                                                                                                                           |  | Received by:<br>Date/Time:<br>Company:                                                                                                                                                                                                                                                                                         |  |                                                                          |  |
| Relinquished by:<br>Date/Time:<br>Company:                                                                                                                                                                                                                                                                                           |  | Received by:<br>Date/Time:<br>Company:                                                                                                                                                                                                                                                                                         |  |                                                                          |  |
| Custody Seals Intact:<br>Δ Yes Δ No                                                                                                                                                                                                                                                                                                  |  | Cooler Temperature(s) °C and Other Remarks: 0.02 607                                                                                                                                                                                                                                                                           |  |                                                                          |  |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: PNSA (515) 710-9815  
CHRIS HIATT, GUEST  
COMFORT SUITES - FARMINGTON  
1951 CORTLAND DR

FARMINGTON, NM 87401  
UNITED STATES US

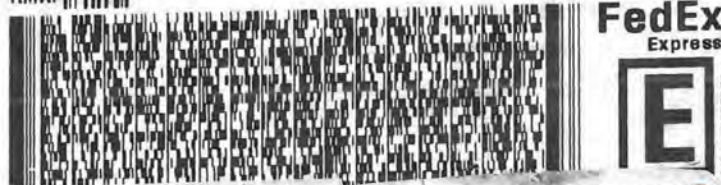
SHIP DATE: 18SEP18  
ACTWGT: 10.00 LB MAN  
CAD: 0335906/CAFE3211

TO **SHIPPING MANAGER**  
**TEST AMERICA PENSACOLA**  
**3355 MCLEMORE DR**  
**RETURNS**  
**PENSACOLA FL 32514**

(860) 474-1001

REF: S400-77305

RMA: ||| ||| |||



FedEx  
TRK# 4535 0239 0317  
0221

TUE - 09 OCT 10:30A  
PRIORITY OVERNIGHT

## XH PNSA

32514  
FL-US BFM



## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-160383-1

**Login Number: 160383**

**List Source: TestAmerica Pensacola**

**List Number: 1**

**Creator: Johnson, Jeremy N**

| Question                                                                                 | Answer | Comment     |
|------------------------------------------------------------------------------------------|--------|-------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |             |
| The cooler's custody seal, if present, is intact.                                        | N/A    | Not present |
| Sample custody seals, if present, are intact.                                            | N/A    |             |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |             |
| Samples were received on ice.                                                            | True   |             |
| Cooler Temperature is acceptable.                                                        | True   |             |
| Cooler Temperature is recorded.                                                          | True   | 0.0°C IR7   |
| COC is present.                                                                          | True   |             |
| COC is filled out in ink and legible.                                                    | True   |             |
| COC is filled out with all pertinent information.                                        | True   |             |
| Is the Field Sampler's name present on COC?                                              | True   |             |
| There are no discrepancies between the containers received and the COC.                  | True   |             |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |             |
| Sample containers have legible labels.                                                   | True   |             |
| Containers are not broken or leaking.                                                    | True   |             |
| Sample collection date/times are provided.                                               | True   |             |
| Appropriate sample containers are used.                                                  | True   |             |
| Sample bottles are completely filled.                                                    | True   |             |
| Sample Preservation Verified.                                                            | 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 $<6\text{mm}$ (1/4"). | N/A    |             |
| Multiphasic samples are not present.                                                     | True   |             |
| Samples do not require splitting or compositing.                                         | True   |             |
| Residual Chlorine Checked.                                                               | N/A    |             |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-160493-1

Client Project/Site: EIPaso CGP Company, LLC - LAT L 40

For:

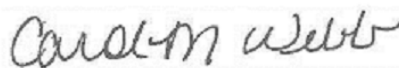
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

10/26/2018 11:01:14 AM

Carol Webb, Project Manager II

(850)471-6250

[carol.webb@testamericainc.com](mailto:carol.webb@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 2  |
| Definitions . . . . .           | 3  |
| Case Narrative . . . . .        | 4  |
| Detection Summary . . . . .     | 5  |
| Sample Summary . . . . .        | 6  |
| Client Sample Results . . . . . | 7  |
| QC Association . . . . .        | 11 |
| QC Sample Results . . . . .     | 14 |
| Chronicle . . . . .             | 20 |
| Certification Summary . . . . . | 23 |
| Method Summary . . . . .        | 24 |
| Chain of Custody . . . . .      | 25 |
| Receipt Checklists . . . . .    | 26 |



## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

### Qualifiers

#### GC VOA

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

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                                      |
| 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  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Job ID: 400-160493-1**

**Laboratory: TestAmerica Pensacola**

## Narrative

### Job Narrative 400-160493-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/12/2018 8:41 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

#### HPLC/IC

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

#### GC VOA

Method 8015B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SVE-1 (27-28) (400-160493-4). Elevated reporting limits (RLs) are provided.

Method 8021B: The continuing calibration verification (CCV) associated with batch 400-416375 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW-7 (32-33) (400-160493-2).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 400-416668 and analytical batch 400-416570 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

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

#### GC Semi VOA

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

#### Organic Prep

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

#### VOA Prep

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

#### Lab Admin

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

## Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

### Client Sample ID: MW-6 (32-33)

Lab Sample ID: 400-160493-1

No Detections.

### Client Sample ID: MW-7 (32-33)

Lab Sample ID: 400-160493-2

No Detections.

### Client Sample ID: SVE-1 (21-22)

Lab Sample ID: 400-160493-3

| Analyte | Result | Qualifier | RL   | Unit  | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|------|-------|---------|---|--------|-----------|
| C6-C10  | 0.13   |           | 0.11 | mg/Kg | 1       | ✱ | 8015B  | Total/NA  |
| C10-C28 | 40     |           | 5.3  | mg/Kg | 1       | ✱ | 8015B  | Total/NA  |

### Client Sample ID: SVE-1 (27-28)

Lab Sample ID: 400-160493-4

| Analyte        | Result | Qualifier | RL     | Unit  | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|--------|-------|---------|---|--------|-----------|
| C6-C10         | 9.0    |           | 5.4    | mg/Kg | 50      | ✱ | 8015B  | Total/NA  |
| Ethylbenzene   | 0.013  |           | 0.0011 | mg/Kg | 1       | ✱ | 8021B  | Total/NA  |
| Toluene        | 0.0078 |           | 0.0057 | mg/Kg | 1       | ✱ | 8021B  | Total/NA  |
| Xylenes, Total | 0.053  | F2        | 0.0057 | mg/Kg | 1       | ✱ | 8021B  | Total/NA  |
| C10-C28        | 48     |           | 5.7    | mg/Kg | 1       | ✱ | 8015B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 400-160493-1  | MW-6 (32-33)     | Solid  | 10/10/18 09:10 | 10/12/18 08:41 |
| 400-160493-2  | MW-7 (32-33)     | Solid  | 10/09/18 09:35 | 10/12/18 08:41 |
| 400-160493-3  | SVE-1 (21-22)    | Solid  | 10/10/18 14:55 | 10/12/18 08:41 |
| 400-160493-4  | SVE-1 (27-28)    | Solid  | 10/10/18 15:05 | 10/12/18 08:41 |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Client Sample ID: MW-6 (32-33)**

**Date Collected: 10/10/18 09:10**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-1**

**Matrix: Solid**

**Percent Solids: 75.7**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.11     |           | 0.11     | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 17:53 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 106       |           | 65 - 125 |       |   | 10/22/18 09:15 | 10/22/18 17:53 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 17:53 | 1       |
| Ethylbenzene                 | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 17:53 | 1       |
| Toluene                      | <0.0056   |           | 0.0056   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 17:53 | 1       |
| Xylenes, Total               | <0.0056   |           | 0.0056   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 17:53 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 106       |           | 40 - 150 |       |   | 10/22/18 09:15 | 10/22/18 17:53 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <6.4      |           | 6.4      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 02:59 | 1       |
| C28-C35     | <6.4      |           | 6.4      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 02:59 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 47        |           | 27 - 151 |       |   | 10/13/18 11:12 | 10/14/18 02:59 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <27    |           | 27 | mg/Kg | ☼ |          | 10/22/18 06:17 | 1       |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Client Sample ID: MW-7 (32-33)**

**Date Collected: 10/09/18 09:35**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-2**

**Matrix: Solid**

**Percent Solids: 75.4**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.11     |           | 0.11     | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 19:46 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 102       |           | 65 - 125 |       |   | 10/22/18 09:15 | 10/22/18 19:46 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 19:46 | 1       |
| Ethylbenzene                 | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 19:46 | 1       |
| Toluene                      | <0.0056   |           | 0.0056   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 19:46 | 1       |
| Xylenes, Total               | <0.0056   |           | 0.0056   | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 19:46 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 99        |           | 40 - 150 |       |   | 10/22/18 09:15 | 10/22/18 19:46 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <6.5      |           | 6.5      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 03:12 | 1       |
| C28-C35     | <6.5      |           | 6.5      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 03:12 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 111       |           | 27 - 151 |       |   | 10/13/18 11:12 | 10/14/18 03:12 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <26    |           | 26 | mg/Kg | ☼ |          | 10/22/18 07:25 | 1       |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Client Sample ID: SVE-1 (21-22)**

**Date Collected: 10/10/18 14:55**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-3**

**Matrix: Solid**

**Percent Solids: 93.5**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | 0.13      |           | 0.11     | mg/Kg | ☼ | 10/22/18 09:15 | 10/22/18 20:24 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 104       |           | 65 - 125 |       |   | 10/22/18 09:15 | 10/22/18 20:24 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:19 | 1       |
| Ethylbenzene                 | <0.0011   |           | 0.0011   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:19 | 1       |
| Toluene                      | <0.0053   |           | 0.0053   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:19 | 1       |
| Xylenes, Total               | <0.0053   |           | 0.0053   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:19 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 101       |           | 40 - 150 |       |   | 10/23/18 11:30 | 10/23/18 14:19 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | 40        |           | 5.3      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 03:24 | 1       |
| C28-C35     | <5.3      |           | 5.3      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 03:24 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 58        |           | 27 - 151 |       |   | 10/13/18 11:12 | 10/14/18 03:24 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <22    |           | 22 | mg/Kg | ☼ |          | 10/22/18 07:48 | 1       |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Client Sample ID: SVE-1 (27-28)**

**Date Collected: 10/10/18 15:05**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-4**

**Matrix: Solid**

**Percent Solids: 86.6**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | 9.0       |           | 5.4      | mg/Kg | ☼ | 10/23/18 10:00 | 10/23/18 15:25 | 50      |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 92        |           | 65 - 125 |       |   | 10/23/18 10:00 | 10/23/18 15:25 | 50      |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0011   | F2        | 0.0011   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:55 | 1       |
| Ethylbenzene                 | 0.013     |           | 0.0011   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:55 | 1       |
| Toluene                      | 0.0078    |           | 0.0057   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:55 | 1       |
| Xylenes, Total               | 0.053     | F2        | 0.0057   | mg/Kg | ☼ | 10/23/18 11:30 | 10/23/18 14:55 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 102       |           | 40 - 150 |       |   | 10/23/18 11:30 | 10/23/18 14:55 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | 48        |           | 5.7      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 03:37 | 1       |
| C28-C35     | <5.7      |           | 5.7      | mg/Kg | ☼ | 10/13/18 11:12 | 10/14/18 03:37 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 87        |           | 27 - 151 |       |   | 10/13/18 11:12 | 10/14/18 03:37 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <23    |           | 23 | mg/Kg | ☼ |          | 10/22/18 08:11 | 1       |

TestAmerica Pensacola

# QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## GC VOA

### Prep Batch: 415955

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-4         | SVE-1 (27-28)          | Total/NA  | Solid  | 5035   |            |
| MB 400-415955/2-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 400-415955/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| 400-160560-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 400-160560-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 416034

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-4         | SVE-1 (27-28)          | Total/NA  | Solid  | 8015B  | 415955     |
| MB 400-415955/2-A    | Method Blank           | Total/NA  | Solid  | 8015B  | 415955     |
| LCS 400-415955/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B  | 415955     |
| 400-160560-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B  | 415955     |
| 400-160560-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B  | 415955     |

### Analysis Batch: 416375

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-1         | MW-6 (32-33)           | Total/NA  | Solid  | 8021B  | 416487     |
| 400-160493-2         | MW-7 (32-33)           | Total/NA  | Solid  | 8021B  | 416487     |
| MB 400-416487/3-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 416487     |
| LCS 400-416487/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 416487     |
| 400-160639-B-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 416487     |
| 400-160639-B-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 416487     |

### Analysis Batch: 416376

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-1         | MW-6 (32-33)           | Total/NA  | Solid  | 8015B  | 416487     |
| 400-160493-2         | MW-7 (32-33)           | Total/NA  | Solid  | 8015B  | 416487     |
| 400-160493-3         | SVE-1 (21-22)          | Total/NA  | Solid  | 8015B  | 416487     |
| MB 400-416487/3-A    | Method Blank           | Total/NA  | Solid  | 8015B  | 416487     |
| LCS 400-416487/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B  | 416487     |
| 400-160639-B-1-J MS  | Matrix Spike           | Total/NA  | Solid  | 8015B  | 416487     |
| 400-160639-B-1-K MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B  | 416487     |

### Prep Batch: 416487

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-1         | MW-6 (32-33)           | Total/NA  | Solid  | 5035   |            |
| 400-160493-2         | MW-7 (32-33)           | Total/NA  | Solid  | 5035   |            |
| 400-160493-3         | SVE-1 (21-22)          | Total/NA  | Solid  | 5035   |            |
| MB 400-416487/3-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 400-416487/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCS 400-416487/2-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| 400-160639-B-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 400-160639-B-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |
| 400-160639-B-1-J MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 400-160639-B-1-K MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 416570

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| 400-160493-3      | SVE-1 (21-22)    | Total/NA  | Solid  | 8021B  | 416668     |
| 400-160493-4      | SVE-1 (27-28)    | Total/NA  | Solid  | 8021B  | 416668     |
| MB 400-416668/3-A | Method Blank     | Total/NA  | Solid  | 8021B  | 416668     |

TestAmerica Pensacola

# QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## GC VOA (Continued)

### Analysis Batch: 416570 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| LCS 400-416668/1-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 416668     |
| 400-160493-4 MS    | SVE-1 (27-28)      | Total/NA  | Solid  | 8021B  | 416668     |
| 400-160493-4 MSD   | SVE-1 (27-28)      | Total/NA  | Solid  | 8021B  | 416668     |

### Prep Batch: 416668

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160493-3       | SVE-1 (21-22)      | Total/NA  | Solid  | 5035   |            |
| 400-160493-4       | SVE-1 (27-28)      | Total/NA  | Solid  | 5035   |            |
| MB 400-416668/3-A  | Method Blank       | Total/NA  | Solid  | 5035   |            |
| LCS 400-416668/1-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| 400-160493-4 MS    | SVE-1 (27-28)      | Total/NA  | Solid  | 5035   |            |
| 400-160493-4 MSD   | SVE-1 (27-28)      | Total/NA  | Solid  | 5035   |            |

## GC Semi VOA

### Prep Batch: 415291

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-1         | MW-6 (32-33)           | Total/NA  | Solid  | 3546   |            |
| 400-160493-2         | MW-7 (32-33)           | Total/NA  | Solid  | 3546   |            |
| 400-160493-3         | SVE-1 (21-22)          | Total/NA  | Solid  | 3546   |            |
| 400-160493-4         | SVE-1 (27-28)          | Total/NA  | Solid  | 3546   |            |
| MB 400-415291/1-A    | Method Blank           | Total/NA  | Solid  | 3546   |            |
| LCS 400-415291/2-A   | Lab Control Sample     | Total/NA  | Solid  | 3546   |            |
| 400-160510-H-7-G MS  | Matrix Spike           | Total/NA  | Solid  | 3546   |            |
| 400-160510-H-7-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 3546   |            |

### Analysis Batch: 415336

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-1         | MW-6 (32-33)           | Total/NA  | Solid  | 8015B  | 415291     |
| 400-160493-2         | MW-7 (32-33)           | Total/NA  | Solid  | 8015B  | 415291     |
| 400-160493-3         | SVE-1 (21-22)          | Total/NA  | Solid  | 8015B  | 415291     |
| 400-160493-4         | SVE-1 (27-28)          | Total/NA  | Solid  | 8015B  | 415291     |
| MB 400-415291/1-A    | Method Blank           | Total/NA  | Solid  | 8015B  | 415291     |
| LCS 400-415291/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B  | 415291     |
| 400-160510-H-7-G MS  | Matrix Spike           | Total/NA  | Solid  | 8015B  | 415291     |
| 400-160510-H-7-H MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B  | 415291     |

## HPLC/IC

### Leach Batch: 416311

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 400-160493-1         | MW-6 (32-33)           | Soluble   | Solid  | DI Leach |            |
| 400-160493-2         | MW-7 (32-33)           | Soluble   | Solid  | DI Leach |            |
| 400-160493-3         | SVE-1 (21-22)          | Soluble   | Solid  | DI Leach |            |
| 400-160493-4         | SVE-1 (27-28)          | Soluble   | Solid  | DI Leach |            |
| MB 400-416311/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 400-416311/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 400-416311/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 400-160383-A-1-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 400-160383-A-1-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

TestAmerica Pensacola

## QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

### HPLC/IC (Continued)

#### Analysis Batch: 416374

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 400-160493-1         | MW-6 (32-33)           | Soluble   | Solid  | 300.0  | 416311     |
| 400-160493-2         | MW-7 (32-33)           | Soluble   | Solid  | 300.0  | 416311     |
| 400-160493-3         | SVE-1 (21-22)          | Soluble   | Solid  | 300.0  | 416311     |
| 400-160493-4         | SVE-1 (27-28)          | Soluble   | Solid  | 300.0  | 416311     |
| MB 400-416311/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 416311     |
| LCS 400-416311/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 416311     |
| LCSD 400-416311/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 416311     |
| 400-160383-A-1-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 416311     |
| 400-160383-A-1-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 416311     |

### General Chemistry

#### Analysis Batch: 415659

| Lab Sample ID      | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------|-----------|--------|----------|------------|
| 400-160493-1       | MW-6 (32-33)     | Total/NA  | Solid  | Moisture |            |
| 400-160493-2       | MW-7 (32-33)     | Total/NA  | Solid  | Moisture |            |
| 400-160493-3       | SVE-1 (21-22)    | Total/NA  | Solid  | Moisture |            |
| 400-160493-4       | SVE-1 (27-28)    | Total/NA  | Solid  | Moisture |            |
| 400-160481-A-41 DU | Duplicate        | Total/NA  | Solid  | Moisture |            |

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-415955/2-A

Matrix: Solid

Analysis Batch: 416034

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 415955

| Analyte                      | MB Result | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <5.0      |              | 5.0      | mg/Kg |   | 10/18/18 12:15 | 10/19/18 15:10 | 50      |
| Surrogate                    | %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 91        |              | 65 - 125 |       |   | 10/18/18 12:15 | 10/19/18 15:10 | 50      |

Lab Sample ID: LCS 400-415955/1-A

Matrix: Solid

Analysis Batch: 416034

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 415955

| Analyte                      | Spike Added | LCS Result    | LCS Qualifier | Unit  | D | %Rec | Limits   |  |
|------------------------------|-------------|---------------|---------------|-------|---|------|----------|--|
| C6-C10                       | 50.0        | 66.8          |               | mg/Kg |   | 134  | 62 - 141 |  |
| Surrogate                    | %Recovery   | LCS Qualifier | Limits        |       |   |      |          |  |
| a,a,a-Trifluorotoluene (fid) | 92          |               | 65 - 125      |       |   |      |          |  |

Lab Sample ID: 400-160560-A-1-B MS

Matrix: Solid

Analysis Batch: 416034

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 415955

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|--|
| C6-C10                       | 1400          |                  | 2590        | 4770      |              | mg/Kg | ☼ | 131  | 10 - 150 |  |
| Surrogate                    | %Recovery     | MS Qualifier     | Limits      |           |              |       |   |      |          |  |
| a,a,a-Trifluorotoluene (fid) | 79            |                  | 65 - 125    |           |              |       |   |      |          |  |

Lab Sample ID: 400-160560-A-1-C MSD

Matrix: Solid

Analysis Batch: 416034

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 415955

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| C6-C10                       | 1400          |                  | 2590        | 4900       |               | mg/Kg | ☼ | 136  | 10 - 150 | 3   | 32    |
| Surrogate                    | %Recovery     | MSD Qualifier    | Limits      |            |               |       |   |      |          |     |       |
| a,a,a-Trifluorotoluene (fid) | 84            |                  | 65 - 125    |            |               |       |   |      |          |     |       |

Lab Sample ID: MB 400-416487/3-A

Matrix: Solid

Analysis Batch: 416376

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 416487

| Analyte                      | MB Result | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.10     |              | 0.10     | mg/Kg |   | 10/22/18 09:15 | 10/22/18 13:57 | 1       |
| Surrogate                    | %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 101       |              | 65 - 125 |       |   | 10/22/18 09:15 | 10/22/18 13:57 | 1       |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 400-416487/2-A

Matrix: Solid

Analysis Batch: 416376

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416487

| Analyte                      | Spike Added | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------------|-------------|---------------|---------------|-------|---|------|--------------|
| C6-C10                       | 1.00        | 1.13          |               | mg/Kg |   | 113  | 62 - 141     |
| Surrogate                    | %Recovery   | LCS Qualifier | Limits        |       |   |      |              |
| a,a,a-Trifluorotoluene (fid) | 103         |               | 65 - 125      |       |   |      |              |

Lab Sample ID: 400-160639-B-1-J MS

Matrix: Solid

Analysis Batch: 416376

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 416487

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| C6-C10                       | <0.10         |                  | 1.04        | 0.933     |              | mg/Kg | ☼ | 90   | 10 - 150     |
| Surrogate                    | %Recovery     | MS Qualifier     | Limits      |           |              |       |   |      |              |
| a,a,a-Trifluorotoluene (fid) | 104           |                  | 65 - 125    |           |              |       |   |      |              |

Lab Sample ID: 400-160639-B-1-K MSD

Matrix: Solid

Analysis Batch: 416376

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 416487

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| C6-C10                       | <0.10         |                  | 1.06        | 1.17       |               | mg/Kg | ☼ | 110  | 10 - 150     | 23  | 32    |
| Surrogate                    | %Recovery     | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |       |
| a,a,a-Trifluorotoluene (fid) | 106           |                  | 65 - 125    |            |               |       |   |      |              |     |       |

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-416487/3-A

Matrix: Solid

Analysis Batch: 416375

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 416487

| Analyte                      | MB Result | MB Qualifier | RL       | Unit           | D              | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|----------|----------------|----------------|----------------|----------------|---------|
| Benzene                      | <0.0010   |              | 0.0010   | mg/Kg          |                | 10/22/18 09:15 | 10/22/18 13:57 | 1       |
| Ethylbenzene                 | <0.0010   |              | 0.0010   | mg/Kg          |                | 10/22/18 09:15 | 10/22/18 13:57 | 1       |
| Toluene                      | <0.0050   |              | 0.0050   | mg/Kg          |                | 10/22/18 09:15 | 10/22/18 13:57 | 1       |
| Xylenes, Total               | <0.0050   |              | 0.0050   | mg/Kg          |                | 10/22/18 09:15 | 10/22/18 13:57 | 1       |
| Surrogate                    | %Recovery | MB Qualifier | Limits   |                |                |                |                |         |
| a,a,a-Trifluorotoluene (pid) | 102       |              | 40 - 150 |                |                |                |                |         |
|                              |           |              |          | Prepared       | Analyzed       | Dil Fac        |                |         |
|                              |           |              |          | 10/22/18 09:15 | 10/22/18 13:57 | 1              |                |         |

Lab Sample ID: LCS 400-416487/1-A

Matrix: Solid

Analysis Batch: 416375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416487

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene      | 0.0500      | 0.0530     |               | mg/Kg |   | 106  | 74 - 127     |
| Ethylbenzene | 0.0500      | 0.0546     |               | mg/Kg |   | 109  | 79 - 131     |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-416487/1-A

Matrix: Solid

Analysis Batch: 416375

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416487

|                              |           |           | Spike    | LCS    | LCS       |       |   |      | %Rec.    |  |  |
|------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
| Analyte                      |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Toluene                      |           |           | 0.0500   | 0.0534 |           | mg/Kg |   | 107  | 76 - 127 |  |  |
| Xylenes, Total               |           |           | 0.150    | 0.163  |           | mg/Kg |   | 109  | 80 - 129 |  |  |
|                              |           |           |          |        |           |       |   |      |          |  |  |
| Surrogate                    | LCS       | LCS       |          |        |           |       |   |      |          |  |  |
|                              | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |  |
| a,a,a-Trifluorotoluene (pid) | 100       |           | 40 - 150 |        |           |       |   |      |          |  |  |

Lab Sample ID: 400-160639-B-1-H MS

Matrix: Solid

Analysis Batch: 416375

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 416487

|                | Sample  | Sample    | Spike  | MS     | MS        |       |   |      | %Rec.    |  |  |
|----------------|---------|-----------|--------|--------|-----------|-------|---|------|----------|--|--|
| Analyte        | Result  | Qualifier | Added  | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Benzene        | <0.0010 |           | 0.0528 | 0.0566 |           | mg/Kg | ☼ | 107  | 10 - 150 |  |  |
| Ethylbenzene   | <0.0010 |           | 0.0528 | 0.0469 |           | mg/Kg | ☼ | 89   | 10 - 150 |  |  |
| Toluene        | <0.0052 |           | 0.0528 | 0.0520 |           | mg/Kg | ☼ | 99   | 10 - 150 |  |  |
| Xylenes, Total | <0.0052 |           | 0.158  | 0.143  |           | mg/Kg | ☼ | 90   | 50 - 150 |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |
|                |         |           |        |        |           |       |   |      |          |  |  |

Lab Sample ID: 400-160639-B-1-I MSD

Matrix: Solid

Analysis Batch: 416375

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 416487

|                | Sample  | Sample    | Spike  | MSD    | MSD       |       |   |      | %Rec.    |     | RPD   |
|----------------|---------|-----------|--------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte        | Result  | Qualifier | Added  | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene        | <0.0010 |           | 0.0529 | 0.0500 |           | mg/Kg | ☼ | 94   | 10 - 150 | 13  | 34    |
| Ethylbenzene   | <0.0010 |           | 0.0529 | 0.0395 |           | mg/Kg | ☼ | 75   | 10 - 150 | 17  | 66    |
| Toluene        | <0.0052 |           | 0.0529 | 0.0445 |           | mg/Kg | ☼ | 84   | 10 - 150 | 16  | 44    |
| Xylenes, Total | <0.0052 |           | 0.159  | 0.120  |           | mg/Kg | ☼ | 76   | 50 - 150 | 17  | 46    |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           |       |   |      |          |     |       |
|                |         |           |        |        |           | </    |   |      |          |     |       |

Lab Sample ID: MB 400-416668/3-A

Matrix: Solid

Analysis Batch: 416570

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 416668

| Analyte                      | MB        | MB        | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
|                              | Result    | Qualifier |          |       |   |                |                |         |
| Benzene                      | <0.0010   |           | 0.0010   | mg/Kg |   | 10/23/18 11:30 | 10/23/18 13:27 | 1       |
| Ethylbenzene                 | <0.0010   |           | 0.0010   | mg/Kg |   | 10/23/18 11:30 | 10/23/18 13:27 | 1       |
| Toluene                      | <0.0050   |           | 0.0050   | mg/Kg |   | 10/23/18 11:30 | 10/23/18 13:27 | 1       |
| Xylenes, Total               | <0.0050   |           | 0.0050   | mg/Kg |   | 10/23/18 11:30 | 10/23/18 13:27 | 1       |
|                              |           |           |          |       |   |                |                |         |
| Surrogate                    | MB        | MB        | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
|                              | %Recovery | Qualifier |          |       |   |                |                |         |
| a,a,a-Trifluorotoluene (pid) | 100       |           | 40 - 150 |       |   | 10/23/18 11:30 | 10/23/18 13:27 | 1       |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-416668/1-A

Matrix: Solid

Analysis Batch: 416570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416668

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene        | 0.0500      | 0.0544     |               | mg/Kg |   | 109  | 74 - 127     |
| Ethylbenzene   | 0.0500      | 0.0544     |               | mg/Kg |   | 109  | 79 - 131     |
| Toluene        | 0.0500      | 0.0543     |               | mg/Kg |   | 109  | 76 - 127     |
| Xylenes, Total | 0.150       | 0.161      |               | mg/Kg |   | 107  | 80 - 129     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| a,a,a-Trifluorotoluene (pid) | 101           |               | 40 - 150 |

Lab Sample ID: 400-160493-4 MS

Matrix: Solid

Analysis Batch: 416570

Client Sample ID: SVE-1 (27-28)

Prep Type: Total/NA

Prep Batch: 416668

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene        | <0.0011       | F2               | 0.0550      | 0.0411    |              | mg/Kg | ☼ | 75   | 10 - 150     |
| Ethylbenzene   | 0.013         |                  | 0.0550      | 0.0563    |              | mg/Kg | ☼ | 79   | 10 - 150     |
| Toluene        | 0.0078        |                  | 0.0550      | 0.0494    |              | mg/Kg | ☼ | 76   | 10 - 150     |
| Xylenes, Total | 0.053         | F2               | 0.165       | 0.152     |              | mg/Kg | ☼ | 60   | 50 - 150     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| a,a,a-Trifluorotoluene (pid) | 100          |              | 40 - 150 |

Lab Sample ID: 400-160493-4 MSD

Matrix: Solid

Analysis Batch: 416570

Client Sample ID: SVE-1 (27-28)

Prep Type: Total/NA

Prep Batch: 416668

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene        | <0.0011       | F2               | 0.0562      | 0.0676     | F2            | mg/Kg | ☼ | 120  | 10 - 150     | 49  | 34        |
| Ethylbenzene   | 0.013         |                  | 0.0562      | 0.0839     |               | mg/Kg | ☼ | 126  | 10 - 150     | 39  | 66        |
| Toluene        | 0.0078        |                  | 0.0562      | 0.0743     |               | mg/Kg | ☼ | 118  | 10 - 150     | 40  | 44        |
| Xylenes, Total | 0.053         | F2               | 0.169       | 0.245      | F2            | mg/Kg | ☼ | 114  | 50 - 150     | 47  | 46        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| a,a,a-Trifluorotoluene (pid) | 101           |               | 40 - 150 |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-415291/1-A

Matrix: Solid

Analysis Batch: 415336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 415291

| Analyte | MB Result | MB Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|-------|---|----------------|----------------|---------|
| C10-C28 | <5.0      |              | 5.0 | mg/Kg |   | 10/13/18 11:12 | 10/13/18 23:50 | 1       |
| C28-C35 | <5.0      |              | 5.0 | mg/Kg |   | 10/13/18 11:12 | 10/13/18 23:50 | 1       |

| Surrogate   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|--------------|--------------|----------|----------------|----------------|---------|
| o-Terphenyl | 70           |              | 27 - 151 | 10/13/18 11:12 | 10/13/18 23:50 | 1       |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 400-415291/2-A

Matrix: Solid

Analysis Batch: 415336

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 415291

| Analyte     | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-------------|---------------|---------------|---------------|-------|---|------|--------------|
| C10-C28     | 287           | 249           |               | mg/Kg |   | 87   | 63 - 153     |
| Surrogate   | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |
| o-Terphenyl | 81            |               | 27 - 151      |       |   |      |              |

Lab Sample ID: 400-160510-H-7-G MS

Matrix: Solid

Analysis Batch: 415336

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 415291

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| C10-C28     | 5.8           |                  | 282         | 203       |              | mg/Kg |   | 70   | 62 - 204     |
| Surrogate   | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| o-Terphenyl | 68            |                  | 27 - 151    |           |              |       |   |      |              |

Lab Sample ID: 400-160510-H-7-H MSD

Matrix: Solid

Analysis Batch: 415336

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 415291

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|-------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| C10-C28     | 5.8           |                  | 286         | 207        |               | mg/Kg |   | 70   | 62 - 204     | 2   | 30    |
| Surrogate   | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |       |
| o-Terphenyl | 66            |                  | 27 - 151    |            |               |       |   |      |              |     |       |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-416311/1-A

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|----|-------|---|----------|----------------|---------|
| Chloride | <21       |              | 21 | mg/Kg |   |          | 10/22/18 02:51 | 1       |

Lab Sample ID: LCS 400-416311/2-A

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 101         | 99.0       |               | mg/Kg |   | 98   | 80 - 120     |

Lab Sample ID: LCSD 400-416311/3-A

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Chloride | 104         | 102         |                | mg/Kg |   | 98   | 80 - 120     | 3   | 15    |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-160383-A-1-C MS

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | <24           |                  | 118         | 115       |              | mg/Kg | ☼ | 97   | 80 - 120     |

Lab Sample ID: 400-160383-A-1-D MSD

Matrix: Solid

Analysis Batch: 416374

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | <24           |                  | 114         | 113        |               | mg/Kg | ☼ | 98   | 80 - 120     | 2   | 15        |

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Client Sample ID: MW-6 (32-33)**

**Date Collected: 10/10/18 09:10**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-1**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415659       | 10/16/18 14:21       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-6 (32-33)**

**Date Collected: 10/10/18 09:10**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-1**

**Matrix: Solid**

**Percent Solids: 75.7**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 5.92 g         | 5.0 g        | 416487       | 10/22/18 09:15       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          | 5 mL           | 5 mL         | 416376       | 10/22/18 17:53       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 5.92 g         | 5.0 g        | 416487       | 10/22/18 09:15       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 416375       | 10/22/18 17:53       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 3546         |     |            | 15.39 g        | 1.0 mL       | 415291       | 10/13/18 11:12       | KLR     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          |                |              | 415336       | 10/14/18 02:59       | TAJ     | TAL PEN |
| Instrument ID: Eva     |            |              |     |            |                |              |              |                      |         |         |
| Soluble                | Leach      | DI Leach     |     |            | 2.48 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble                | Analysis   | 300.0        |     | 1          |                |              | 416374       | 10/22/18 06:17       | BAW     | TAL PEN |
| Instrument ID: IC2     |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-7 (32-33)**

**Date Collected: 10/09/18 09:35**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-2**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415659       | 10/16/18 14:21       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-7 (32-33)**

**Date Collected: 10/09/18 09:35**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-2**

**Matrix: Solid**

**Percent Solids: 75.4**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 5.89 g         | 5.0 g        | 416487       | 10/22/18 09:15       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          | 5 mL           | 5 mL         | 416376       | 10/22/18 19:46       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 5.89 g         | 5.0 g        | 416487       | 10/22/18 09:15       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 416375       | 10/22/18 19:46       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 3546         |     |            | 15.33 g        | 1.0 mL       | 415291       | 10/13/18 11:12       | KLR     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          |                |              | 415336       | 10/14/18 03:12       | TAJ     | TAL PEN |
| Instrument ID: Eva     |            |              |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Client Sample ID: MW-7 (32-33)**

**Date Collected: 10/09/18 09:35**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-2**

**Matrix: Solid**

**Percent Solids: 75.4**

| Prep Type          | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|--------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble            | Leach      | DI Leach     |     |            | 2.58 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble            | Analysis   | 300.0        |     | 1          |                |              | 416374       | 10/22/18 07:25       | BAW     | TAL PEN |
| Instrument ID: IC2 |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-1 (21-22)**

**Date Collected: 10/10/18 14:55**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-3**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415659       | 10/16/18 14:21       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-1 (21-22)**

**Date Collected: 10/10/18 14:55**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-3**

**Matrix: Solid**

**Percent Solids: 93.5**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 5.09 g         | 5.0 g        | 416487       | 10/22/18 09:15       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          | 5 mL           | 5 mL         | 416376       | 10/22/18 20:24       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 5.04 g         | 5.0 g        | 416668       | 10/23/18 11:30       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 416570       | 10/23/18 14:19       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 3546         |     |            | 15.03 g        | 1.0 mL       | 415291       | 10/13/18 11:12       | KLR     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          |                |              | 415336       | 10/14/18 03:24       | TAJ     | TAL PEN |
| Instrument ID: Eva     |            |              |     |            |                |              |              |                      |         |         |
| Soluble                | Leach      | DI Leach     |     |            | 2.42 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble                | Analysis   | 300.0        |     | 1          |                |              | 416374       | 10/22/18 07:48       | BAW     | TAL PEN |
| Instrument ID: IC2     |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-1 (27-28)**

**Date Collected: 10/10/18 15:05**

**Date Received: 10/12/18 08:41**

**Lab Sample ID: 400-160493-4**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 415659       | 10/16/18 14:21       | KS      | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

**Client Sample ID: SVE-1 (27-28)**

**Lab Sample ID: 400-160493-4**

**Date Collected: 10/10/18 15:05**

**Matrix: Solid**

**Date Received: 10/12/18 08:41**

**Percent Solids: 86.6**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035                   |     |            | 5.37 g         | 5.0 g        | 415955       | 10/23/18 10:00       | GRK     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 50         | 5 mL           | 5 mL         | 416034       | 10/23/18 15:25       | SAB     | TAL PEN |
|           |            | Instrument ID: CH_RITA |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 5035                   |     |            | 5.11 g         | 5.0 g        | 416668       | 10/23/18 11:30       | GRK     | TAL PEN |
| Total/NA  | Analysis   | 8021B                  |     | 1          | 5 mL           | 5 mL         | 416570       | 10/23/18 14:55       | GRK     | TAL PEN |
|           |            | Instrument ID: CH_JOAN |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 3546                   |     |            | 15.17 g        | 1.0 mL       | 415291       | 10/13/18 11:12       | KLR     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 1          |                |              | 415336       | 10/14/18 03:37       | TAJ     | TAL PEN |
|           |            | Instrument ID: Eva     |     |            |                |              |              |                      |         |         |
| Soluble   | Leach      | DI Leach               |     |            | 2.51 g         | 50 mL        | 416311       | 10/21/18 11:49       | BAW     | TAL PEN |
| Soluble   | Analysis   | 300.0                  |     | 1          |                |              | 416374       | 10/22/18 08:11       | BAW     | TAL PEN |
|           |            | Instrument ID: IC2     |     |            |                |              |              |                      |         |         |

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

### Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-19        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-19        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-19        |
| California             | State Program | 9          | 2510                  | 06-30-19        |
| Florida                | NELAP         | 4          | E81010                | 06-30-19        |
| Georgia                | State Program | 4          | E81010 (FL)           | 06-30-19        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-19        |
| Iowa                   | State Program | 7          | 367                   | 08-01-20        |
| Kansas                 | NELAP         | 7          | E-10253               | 10-31-18        |
| Kentucky (UST)         | State Program | 4          | 53                    | 06-30-19        |
| Kentucky (WW)          | State Program | 4          | 98030                 | 12-31-18        |
| Louisiana              | NELAP         | 6          | 30976                 | 06-30-19        |
| Louisiana (DW)         | NELAP         | 6          | LA170005              | 12-31-18        |
| Maryland               | State Program | 3          | 233                   | 09-30-19        |
| Massachusetts          | State Program | 1          | M-FL094               | 06-30-19        |
| Michigan               | State Program | 5          | 9912                  | 06-30-19        |
| New Jersey             | NELAP         | 2          | FL006                 | 06-30-19        |
| North Carolina (WW/SW) | State Program | 4          | 314                   | 12-31-18        |
| Oklahoma               | State Program | 6          | 9810                  | 08-31-19        |
| Pennsylvania           | NELAP         | 3          | 68-00467              | 01-31-19        |
| Rhode Island           | State Program | 1          | LAO00307              | 12-30-18        |
| South Carolina         | State Program | 4          | 96026                 | 06-30-19        |
| Tennessee              | State Program | 4          | TN02907               | 06-30-19        |
| Texas                  | NELAP         | 6          | T104704286-18-16      | 09-30-19        |
| US Fish & Wildlife     | Federal       |            | LE058448-0            | 07-31-19        |
| USDA                   | Federal       |            | P330-18-00148         | 05-17-21        |
| Virginia               | NELAP         | 3          | 460166                | 06-14-19        |
| Washington             | State Program | 10         | C915                  | 05-15-19        |
| West Virginia DEP      | State Program | 3          | 136                   | 06-30-19        |

## Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160493-1

| Method   | Method Description                 | Protocol | Laboratory |
|----------|------------------------------------|----------|------------|
| 8015B    | Gasoline Range Organics - (GC)     | SW846    | TAL PEN    |
| 8021B    | Volatile Organic Compounds (GC)    | SW846    | TAL PEN    |
| 8015B    | Diesel Range Organics (DRO) (GC)   | SW846    | TAL PEN    |
| 300.0    | Anions, Ion Chromatography         | MCAWW    | TAL PEN    |
| Moisture | Percent Moisture                   | EPA      | TAL PEN    |
| 3546     | Microwave Extraction               | SW846    | TAL PEN    |
| 5035     | Closed System Purge and Trap       | SW846    | TAL PEN    |
| DI Leach | Deionized Water Leaching Procedure | ASTM     | TAL PEN    |

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

### Laboratory References:

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

## Chain of Custody Record



|                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Sarah Gardner<br>Company: Stanlec Consulting Services Inc<br>Address: 1560 Broadway Suite 1800<br>City: Denver<br>State, Zip: CO, 80202<br>Phone: 303-291-2239(Tel)<br>Email: sarah.gardner@mwhglobal.com<br>Project Name: LAT L 40<br>Site: LAT L 40                               |  | Sampler: Marc Hes<br>Lab PM: Webb, Carol M<br>Phone: 303 885 4991<br>E-Mail: carol.webb@testamericainc.com                                                                                                                                                                                                                                                                                                                      |  | Carrier Tracking No(s): 400-77305-30160.1<br>Page: Page 1 of 1<br>Job #: |  |
| Due Date Requested: per Arf<br>TAT Requested (days): per Arf<br>PO #: See Project Notes<br>WO #: 40005479<br>Project #: 40005479<br>SSOW#:                                                                                                                                                                                           |  | <b>Analysis Requested</b><br>Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4.5<br>Z - other (specify) |  |                                                                          |  |
| <b>Sample Identification</b><br>MW-6 (32-33)<br>MW-7 (32-33)<br>SUE-1 (21-22)<br>SUE-1 (27-28)                                                                                                                                                                                                                                       |  | Sample Date<br>10/10/18<br>10/9/18<br>10/10/18<br>10/10/18                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                          |  |
| Sample Type<br>(C=Comp, G=grab)<br>6<br>6<br>6<br>6                                                                                                                                                                                                                                                                                  |  | Matrix<br>(W=water, S=solid, O=oil, BT=Tissue, AA=As)<br>S<br>S<br>S<br>S                                                                                                                                                                                                                                                                                                                                                       |  |                                                                          |  |
| Field Filtered Sample (Yes or No)<br>8015B DRO - TPH DRO ORO<br>8015B GRO, 8021B<br>300_ORGFM_28D - Chloride                                                                                                                                                                                                                         |  | Total Number of Containers<br>3<br>3<br>3<br>3                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                          |  |
| <b>Sample Disposal</b> (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements: per Arf                                       |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements: per Arf                                                                                                                                         |  |                                                                          |  |
| <b>Possible Hazard Identification</b><br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested: I, II, III, IV, Other (specify) |  | Empty Kit Relinquished by: _____ Date: _____<br>Relinquished by: Marc Hes<br>Date/Time: 10-11-18 1500<br>Relinquished by: _____ Date/Time: _____<br>Relinquished by: _____ Date/Time: _____                                                                                                                                                                                                                                     |  |                                                                          |  |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Custody Seal No.:                                                                                                                                                                                                                       |  | Received by: _____ Date/Time: _____<br>Received by: _____ Date/Time: _____<br>Received by: _____ Date/Time: 10-12-18 8:41<br>Cooler Temperature(s) °C and Other Remarks: 2, 8°C 198                                                                                                                                                                                                                                             |  |                                                                          |  |

## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-160493-1

Login Number: 160493

List Source: TestAmerica Pensacola

List Number: 1

Creator: Perez, Trina M

| Question                                                                                 | Answer | Comment    |
|------------------------------------------------------------------------------------------|--------|------------|
| Radioactivity wasn't checked or is $\leq$ 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   | 2.8°C IR-8 |
| COC is present.                                                                          | True   |            |
| COC is filled out in ink and legible.                                                    | True   |            |
| COC is filled out with all pertinent information.                                        | True   |            |
| Is the Field Sampler's name present on COC?                                              | True   |            |
| There are no discrepancies between the containers received and the COC.                  | True   |            |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |            |
| Sample containers have legible labels.                                                   | True   |            |
| Containers are not broken or leaking.                                                    | True   |            |
| Sample collection date/times are provided.                                               | True   |            |
| Appropriate sample containers are used.                                                  | True   |            |
| Sample bottles are completely filled.                                                    | True   |            |
| Sample Preservation Verified.                                                            | 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 $<6\text{mm}$ (1/4"). | N/A    |            |
| Multiphasic samples are not present.                                                     | True   |            |
| Samples do not require splitting or compositing.                                         | True   |            |
| Residual Chlorine Checked.                                                               | N/A    |            |

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-160685-1

Client Project/Site: EIPaso CGP Company, LLC - LAT L 40

For:

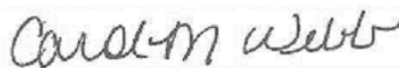
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

10/30/2018 5:34:15 PM

Carol Webb, Project Manager II

(850)471-6250

[carol.webb@testamericainc.com](mailto:carol.webb@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 2  |
| Definitions . . . . .           | 3  |
| Case Narrative . . . . .        | 4  |
| Detection Summary . . . . .     | 5  |
| Sample Summary . . . . .        | 6  |
| Client Sample Results . . . . . | 7  |
| QC Association . . . . .        | 11 |
| QC Sample Results . . . . .     | 14 |
| Chronicle . . . . .             | 21 |
| Certification Summary . . . . . | 24 |
| Method Summary . . . . .        | 25 |
| Chain of Custody . . . . .      | 26 |
| Receipt Checklists . . . . .    | 27 |



## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

### Qualifiers

#### GC VOA

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| E         | Result exceeded calibration range.                                                                                                                        |
| H         | Sample was prepped or analyzed beyond the specified holding time                                                                                          |

#### GC Semi VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |
| F2        | MS/MSD RPD exceeds control limits                    |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                                      |
| 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  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Job ID: 400-160685-1**

**Laboratory: TestAmerica Pensacola**

### Narrative

#### Job Narrative 400-160685-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/16/2018 9:11 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7° C.

#### HPLC/IC

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

#### GC VOA

Method 8015B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SVE-2 (15-16) (400-160685-1). Elevated reporting limits (RLs) are provided.

Method 8021B: Reanalysis of the following sample was performed outside of the analytical holding time due to Toluene over calibrated range for the first run.: SVE-2 (25-26) (400-160685-2). Estimated result in hold time was confirmed by secondary result which was out of hold but within the calibrated range.

Method 8021B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SVE-2 (15-16) (400-160685-1). Elevated reporting limits (RLs) are provided.

Method 8021B: Reanalysis of the following sample was performed outside of the analytical holding time due to Toluene over calibrated range for the first run.: SVE-2 (25-26) (400-160685-2). Estimated result in hold time was confirmed by secondary result which was out of hold but within the calibrated range.

Method 8021B: Due to the high concentration of Toluene, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 400-417577 and analytical batch 400-417389 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

#### GC Semi VOA

Method 8015B: The matrix spike duplicate (MSD) recoveries for preparation batch 400-415976 and analytical batch 400-416269 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 400-415976 and analytical batch 400-416269 was outside control limits. Sample non-homogeneity is suspected.

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

#### Organic Prep

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

#### VOA Prep

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

#### Lab Admin

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

## Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

### Client Sample ID: SVE-2 (15-16)

### Lab Sample ID: 400-160685-1

| Analyte        | Result | Qualifier | RL    | Unit  | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-------|-------|---------|---|--------|-----------|
| C6-C10         | 280    |           | 6.7   | mg/Kg | 50      | ☼ | 8015B  | Total/NA  |
| Benzene        | 0.88   |           | 0.067 | mg/Kg | 50      | ☼ | 8021B  | Total/NA  |
| Ethylbenzene   | 1.4    |           | 0.067 | mg/Kg | 50      | ☼ | 8021B  | Total/NA  |
| Toluene        | 7.3    |           | 0.34  | mg/Kg | 50      | ☼ | 8021B  | Total/NA  |
| Xylenes, Total | 11     |           | 0.34  | mg/Kg | 50      | ☼ | 8021B  | Total/NA  |
| C10-C28        | 40     |           | 6.9   | mg/Kg | 1       | ☼ | 8015B  | Total/NA  |

### Client Sample ID: SVE-2 (25-26)

### Lab Sample ID: 400-160685-2

| Analyte        | Result | Qualifier | RL     | Unit  | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|--------|-------|---------|---|--------|-----------|
| C6-C10         | 1.3    |           | 0.12   | mg/Kg | 1       | ☼ | 8015B  | Total/NA  |
| Benzene        | 0.11   |           | 0.0013 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |
| Ethylbenzene   | 0.022  |           | 0.0013 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |
| Toluene        | 0.51   | E         | 0.0064 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |
| Toluene        | 0.44   | H         | 0.0096 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |
| Xylenes, Total | 0.30   |           | 0.0064 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |

### Client Sample ID: SVE-3 (13-14)

### Lab Sample ID: 400-160685-3

No Detections.

### Client Sample ID: SVE-3 (26-27)

### Lab Sample ID: 400-160685-4

| Analyte        | Result | Qualifier | RL     | Unit  | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|--------|-------|---------|---|--------|-----------|
| C6-C10         | 0.85   |           | 0.11   | mg/Kg | 1       | ☼ | 8015B  | Total/NA  |
| Benzene        | 0.0059 |           | 0.0013 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |
| Ethylbenzene   | 0.0064 |           | 0.0013 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |
| Toluene        | 0.10   |           | 0.0067 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |
| Xylenes, Total | 0.28   |           | 0.0067 | mg/Kg | 1       | ☼ | 8021B  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 400-160685-1  | SVE-2 (15-16)    | Solid  | 10/13/18 12:55 | 10/16/18 09:11 |
| 400-160685-2  | SVE-2 (25-26)    | Solid  | 10/13/18 13:20 | 10/16/18 09:11 |
| 400-160685-3  | SVE-3 (13-14)    | Solid  | 10/13/18 14:50 | 10/16/18 09:11 |
| 400-160685-4  | SVE-3 (26-27)    | Solid  | 10/13/18 15:00 | 10/16/18 09:11 |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Client Sample ID: SVE-2 (15-16)**

**Lab Sample ID: 400-160685-1**

**Date Collected: 10/13/18 12:55**

**Matrix: Solid**

**Date Received: 10/16/18 09:11**

**Percent Solids: 72.0**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | 280       |           | 6.7      | mg/Kg | ☼ | 10/26/18 08:40 | 10/26/18 13:49 | 50      |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 80        |           | 65 - 125 |       |   | 10/26/18 08:40 | 10/26/18 13:49 | 50      |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.88      |           | 0.067    | mg/Kg | ☼ | 10/26/18 08:40 | 10/26/18 13:49 | 50      |
| Ethylbenzene                 | 1.4       |           | 0.067    | mg/Kg | ☼ | 10/26/18 08:40 | 10/26/18 13:49 | 50      |
| Toluene                      | 7.3       |           | 0.34     | mg/Kg | ☼ | 10/26/18 08:40 | 10/26/18 13:49 | 50      |
| Xylenes, Total               | 11        |           | 0.34     | mg/Kg | ☼ | 10/26/18 08:40 | 10/26/18 13:49 | 50      |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 74        |           | 40 - 150 |       |   | 10/26/18 08:40 | 10/26/18 13:49 | 50      |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | 40        |           | 6.9      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 17:58 | 1       |
| C28-C35     | <6.9      |           | 6.9      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 17:58 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 84        |           | 27 - 151 |       |   | 10/18/18 14:02 | 10/20/18 17:58 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <28    |           | 28 | mg/Kg | ☼ |          | 10/23/18 21:44 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Client Sample ID: SVE-2 (25-26)**

**Date Collected: 10/13/18 13:20**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-2**

**Matrix: Solid**

**Percent Solids: 76.2**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | 1.3       |           | 0.12     | mg/Kg | ☼ | 10/25/18 09:00 | 10/25/18 16:10 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 92        |           | 65 - 125 |       |   | 10/25/18 09:00 | 10/25/18 16:10 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.11      |           | 0.0013   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:22 | 1       |
| Ethylbenzene                 | 0.022     |           | 0.0013   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:22 | 1       |
| Toluene                      | 0.51      | E         | 0.0064   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:22 | 1       |
| Toluene                      | 0.44      | H         | 0.0096   | mg/Kg | ☼ | 10/29/18 12:00 | 10/29/18 18:44 | 1       |
| Xylenes, Total               | 0.30      |           | 0.0064   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:22 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 98        |           | 40 - 150 |       |   | 10/26/18 15:00 | 10/26/18 21:22 | 1       |
| a,a,a-Trifluorotoluene (pid) | 93        |           | 40 - 150 |       |   | 10/29/18 12:00 | 10/29/18 18:44 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <6.6      |           | 6.6      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 18:11 | 1       |
| C28-C35     | <6.6      |           | 6.6      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 18:11 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 78        |           | 27 - 151 |       |   | 10/18/18 14:02 | 10/20/18 18:11 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <27    |           | 27 | mg/Kg | ☼ |          | 10/23/18 22:07 | 1       |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Client Sample ID: SVE-3 (13-14)**

**Date Collected: 10/13/18 14:50**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-3**

**Matrix: Solid**

**Percent Solids: 83.3**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.11     |           | 0.11     | mg/Kg | ☼ | 10/25/18 09:00 | 10/25/18 13:06 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 93        |           | 65 - 125 |       |   | 10/25/18 09:00 | 10/25/18 13:06 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | <0.0012   |           | 0.0012   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 19:32 | 1       |
| Ethylbenzene                 | <0.0012   |           | 0.0012   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 19:32 | 1       |
| Toluene                      | <0.0060   |           | 0.0060   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 19:32 | 1       |
| Xylenes, Total               | <0.0060   |           | 0.0060   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 19:32 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 95        |           | 40 - 150 |       |   | 10/26/18 15:00 | 10/26/18 19:32 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <6.0      | F2 F1     | 6.0      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 17:45 | 1       |
| C28-C35     | <6.0      |           | 6.0      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 17:45 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 69        |           | 27 - 151 |       |   | 10/18/18 14:02 | 10/20/18 17:45 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <24    |           | 24 | mg/Kg | ☼ |          | 10/23/18 22:30 | 1       |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Client Sample ID: SVE-3 (26-27)**

**Date Collected: 10/13/18 15:00**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-4**

**Matrix: Solid**

**Percent Solids: 73.2**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | 0.85      |           | 0.11     | mg/Kg | ☼ | 10/25/18 09:00 | 10/25/18 15:44 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 96        |           | 65 - 125 |       |   | 10/25/18 09:00 | 10/25/18 15:44 | 1       |

## Method: 8021B - Volatile Organic Compounds (GC)

| Analyte                      | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                      | 0.0059    |           | 0.0013   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:59 | 1       |
| Ethylbenzene                 | 0.0064    |           | 0.0013   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:59 | 1       |
| Toluene                      | 0.10      |           | 0.0067   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:59 | 1       |
| Xylenes, Total               | 0.28      |           | 0.0067   | mg/Kg | ☼ | 10/26/18 15:00 | 10/26/18 21:59 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (pid) | 100       |           | 40 - 150 |       |   | 10/26/18 15:00 | 10/26/18 21:59 | 1       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| C10-C28     | <6.7      |           | 6.7      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 18:24 | 1       |
| C28-C35     | <6.7      |           | 6.7      | mg/Kg | ☼ | 10/18/18 14:02 | 10/20/18 18:24 | 1       |
| Surrogate   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| o-Terphenyl | 85        |           | 27 - 151 |       |   | 10/18/18 14:02 | 10/20/18 18:24 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------|----------------|---------|
| Chloride | <28    |           | 28 | mg/Kg | ☼ |          | 10/23/18 22:53 | 1       |

TestAmerica Pensacola

# QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## GC VOA

### Analysis Batch: 416879

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 8015B  | 416978     |
| 400-160685-3       | SVE-3 (13-14)      | Total/NA  | Solid  | 8015B  | 416978     |
| 400-160685-4       | SVE-3 (26-27)      | Total/NA  | Solid  | 8015B  | 416978     |
| MB 400-416978/2-A  | Method Blank       | Total/NA  | Solid  | 8015B  | 416978     |
| LCS 400-416978/1-A | Lab Control Sample | Total/NA  | Solid  | 8015B  | 416978     |
| 400-160685-3 MS    | SVE-3 (13-14)      | Total/NA  | Solid  | 8015B  | 416978     |
| 400-160685-3 MSD   | SVE-3 (13-14)      | Total/NA  | Solid  | 8015B  | 416978     |

### Prep Batch: 416978

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-3       | SVE-3 (13-14)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-4       | SVE-3 (26-27)      | Total/NA  | Solid  | 5035   |            |
| MB 400-416978/2-A  | Method Blank       | Total/NA  | Solid  | 5035   |            |
| LCS 400-416978/1-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| 400-160685-3 MS    | SVE-3 (13-14)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-3 MSD   | SVE-3 (13-14)      | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 417044

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-1       | SVE-2 (15-16)      | Total/NA  | Solid  | 8015B  | 417054     |
| MB 400-417054/1-A  | Method Blank       | Total/NA  | Solid  | 8015B  | 417054     |
| LCS 400-417054/3-A | Lab Control Sample | Total/NA  | Solid  | 8015B  | 417054     |
| 400-160685-1 MS    | SVE-2 (15-16)      | Total/NA  | Solid  | 8015B  | 417054     |
| 400-160685-1 MSD   | SVE-2 (15-16)      | Total/NA  | Solid  | 8015B  | 417054     |

### Analysis Batch: 417046

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-1       | SVE-2 (15-16)      | Total/NA  | Solid  | 8021B  | 417054     |
| MB 400-417054/1-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 417054     |
| LCS 400-417054/2-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 417054     |
| 400-160685-1 MS    | SVE-2 (15-16)      | Total/NA  | Solid  | 8021B  | 417054     |
| 400-160685-1 MSD   | SVE-2 (15-16)      | Total/NA  | Solid  | 8021B  | 417054     |

### Prep Batch: 417054

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-1       | SVE-2 (15-16)      | Total/NA  | Solid  | 5035   |            |
| MB 400-417054/1-A  | Method Blank       | Total/NA  | Solid  | 5035   |            |
| LCS 400-417054/2-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| LCS 400-417054/3-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| 400-160685-1 MS    | SVE-2 (15-16)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-1 MSD   | SVE-2 (15-16)      | Total/NA  | Solid  | 5035   |            |

### Analysis Batch: 417104

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 8021B  | 417429     |
| 400-160685-3       | SVE-3 (13-14)      | Total/NA  | Solid  | 8021B  | 417429     |
| 400-160685-4       | SVE-3 (26-27)      | Total/NA  | Solid  | 8021B  | 417429     |
| MB 400-417429/2-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 417429     |
| LCS 400-417429/1-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 417429     |
| 400-160685-3 MS    | SVE-3 (13-14)      | Total/NA  | Solid  | 8021B  | 417429     |

TestAmerica Pensacola

# QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## GC VOA (Continued)

### Analysis Batch: 417104 (Continued)

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 400-160685-3 MSD | SVE-3 (13-14)    | Total/NA  | Solid  | 8021B  | 417429     |

### Analysis Batch: 417389

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 8021B  | 417577     |
| MB 400-417577/2-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 417577     |
| LCS 400-417577/1-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 417577     |
| 400-160685-2 MS    | SVE-2 (25-26)      | Total/NA  | Solid  | 8021B  | 417577     |
| 400-160685-2 MSD   | SVE-2 (25-26)      | Total/NA  | Solid  | 8021B  | 417577     |

### Prep Batch: 417429

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-3       | SVE-3 (13-14)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-4       | SVE-3 (26-27)      | Total/NA  | Solid  | 5035   |            |
| MB 400-417429/2-A  | Method Blank       | Total/NA  | Solid  | 5035   |            |
| LCS 400-417429/1-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| 400-160685-3 MS    | SVE-3 (13-14)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-3 MSD   | SVE-3 (13-14)      | Total/NA  | Solid  | 5035   |            |

### Prep Batch: 417577

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 5035   |            |
| MB 400-417577/2-A  | Method Blank       | Total/NA  | Solid  | 5035   |            |
| LCS 400-417577/1-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| 400-160685-2 MS    | SVE-2 (25-26)      | Total/NA  | Solid  | 5035   |            |
| 400-160685-2 MSD   | SVE-2 (25-26)      | Total/NA  | Solid  | 5035   |            |

## GC Semi VOA

### Prep Batch: 415976

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-1       | SVE-2 (15-16)      | Total/NA  | Solid  | 3546   |            |
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 3546   |            |
| 400-160685-3       | SVE-3 (13-14)      | Total/NA  | Solid  | 3546   |            |
| 400-160685-4       | SVE-3 (26-27)      | Total/NA  | Solid  | 3546   |            |
| MB 400-415976/1-A  | Method Blank       | Total/NA  | Solid  | 3546   |            |
| LCS 400-415976/2-A | Lab Control Sample | Total/NA  | Solid  | 3546   |            |
| 400-160685-3 MS    | SVE-3 (13-14)      | Total/NA  | Solid  | 3546   |            |
| 400-160685-3 MSD   | SVE-3 (13-14)      | Total/NA  | Solid  | 3546   |            |

### Analysis Batch: 416269

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-160685-1       | SVE-2 (15-16)      | Total/NA  | Solid  | 8015B  | 415976     |
| 400-160685-2       | SVE-2 (25-26)      | Total/NA  | Solid  | 8015B  | 415976     |
| 400-160685-3       | SVE-3 (13-14)      | Total/NA  | Solid  | 8015B  | 415976     |
| 400-160685-4       | SVE-3 (26-27)      | Total/NA  | Solid  | 8015B  | 415976     |
| MB 400-415976/1-A  | Method Blank       | Total/NA  | Solid  | 8015B  | 415976     |
| LCS 400-415976/2-A | Lab Control Sample | Total/NA  | Solid  | 8015B  | 415976     |
| 400-160685-3 MS    | SVE-3 (13-14)      | Total/NA  | Solid  | 8015B  | 415976     |

TestAmerica Pensacola

# QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## GC Semi VOA (Continued)

### Analysis Batch: 416269 (Continued)

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 400-160685-3 MSD | SVE-3 (13-14)    | Total/NA  | Solid  | 8015B  | 415976     |

## HPLC/IC

### Leach Batch: 416464

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 400-160685-1         | SVE-2 (15-16)          | Soluble   | Solid  | DI Leach |            |
| 400-160685-2         | SVE-2 (25-26)          | Soluble   | Solid  | DI Leach |            |
| 400-160685-3         | SVE-3 (13-14)          | Soluble   | Solid  | DI Leach |            |
| 400-160685-4         | SVE-3 (26-27)          | Soluble   | Solid  | DI Leach |            |
| MB 400-416464/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 400-416464/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 400-416464/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 400-160898-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 400-160898-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

### Analysis Batch: 416573

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| MB 400-416464/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 416464     |
| LCS 400-416464/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 416464     |
| LCSD 400-416464/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 416464     |
| 400-160898-A-1-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 416464     |
| 400-160898-A-1-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 416464     |

### Analysis Batch: 416574

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 400-160685-1        | SVE-2 (15-16)          | Soluble   | Solid  | 300.0  | 416464     |
| 400-160685-2        | SVE-2 (25-26)          | Soluble   | Solid  | 300.0  | 416464     |
| 400-160685-3        | SVE-3 (13-14)          | Soluble   | Solid  | 300.0  | 416464     |
| 400-160685-4        | SVE-3 (26-27)          | Soluble   | Solid  | 300.0  | 416464     |
| MB 400-416464/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 416464     |
| LCS 400-416464/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 416464     |
| LCSD 400-416464/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 416464     |

## General Chemistry

### Analysis Batch: 416407

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 400-160685-1       | SVE-2 (15-16)          | Total/NA  | Solid  | Moisture |            |
| 400-160685-2       | SVE-2 (25-26)          | Total/NA  | Solid  | Moisture |            |
| 400-160685-3       | SVE-3 (13-14)          | Total/NA  | Solid  | Moisture |            |
| 400-160685-4       | SVE-3 (26-27)          | Total/NA  | Solid  | Moisture |            |
| 400-160644-E-3 MS  | Matrix Spike           | Total/NA  | Solid  | Moisture |            |
| 400-160644-E-3 MSD | Matrix Spike Duplicate | Total/NA  | Solid  | Moisture |            |
| 400-160710-A-13 DU | Duplicate              | Total/NA  | Solid  | Moisture |            |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 400-416978/2-A

Matrix: Solid

Analysis Batch: 416879

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 416978

| Analyte                      | MB Result | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <0.10     |              | 0.10     | mg/Kg |   | 10/25/18 09:00 | 10/25/18 09:23 | 1       |
| Surrogate                    | %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 91        |              | 65 - 125 |       |   | 10/25/18 09:00 | 10/25/18 09:23 | 1       |

Lab Sample ID: LCS 400-416978/1-A

Matrix: Solid

Analysis Batch: 416879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 416978

| Analyte                      | Spike Added | LCS Result    | LCS Qualifier | Unit  | D | %Rec | Limits   |  |
|------------------------------|-------------|---------------|---------------|-------|---|------|----------|--|
| C6-C10                       | 1.00        | 1.12          |               | mg/Kg |   | 112  | 62 - 141 |  |
| Surrogate                    | %Recovery   | LCS Qualifier | Limits        |       |   |      |          |  |
| a,a,a-Trifluorotoluene (fid) | 89          |               | 65 - 125      |       |   |      |          |  |

Lab Sample ID: 400-160685-3 MS

Matrix: Solid

Analysis Batch: 416879

Client Sample ID: SVE-3 (13-14)

Prep Type: Total/NA

Prep Batch: 416978

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|--|
| C6-C10                       | <0.11         |                  | 1.16        | 1.18      |              | mg/Kg | ☼ | 102  | 10 - 150 |  |
| Surrogate                    | %Recovery     | MS Qualifier     | Limits      |           |              |       |   |      |          |  |
| a,a,a-Trifluorotoluene (fid) | 90            |                  | 65 - 125    |           |              |       |   |      |          |  |

Lab Sample ID: 400-160685-3 MSD

Matrix: Solid

Analysis Batch: 416879

Client Sample ID: SVE-3 (13-14)

Prep Type: Total/NA

Prep Batch: 416978

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| C6-C10                       | <0.11         |                  | 1.15        | 1.18       |               | mg/Kg | ☼ | 102  | 10 - 150 | 0   | 32    |
| Surrogate                    | %Recovery     | MSD Qualifier    | Limits      |            |               |       |   |      |          |     |       |
| a,a,a-Trifluorotoluene (fid) | 90            |                  | 65 - 125    |            |               |       |   |      |          |     |       |

Lab Sample ID: MB 400-417054/1-A

Matrix: Solid

Analysis Batch: 417044

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 417054

| Analyte                      | MB Result | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|----------|-------|---|----------------|----------------|---------|
| C6-C10                       | <5.0      |              | 5.0      | mg/Kg |   | 10/26/18 08:40 | 10/29/18 16:48 | 50      |
| Surrogate                    | %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| a,a,a-Trifluorotoluene (fid) | 98        |              | 65 - 125 |       |   | 10/26/18 08:40 | 10/29/18 16:48 | 50      |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 400-417054/3-A

Matrix: Solid

Analysis Batch: 417044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 417054

| Analyte                      | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------------|---------------|---------------|---------------|-------|---|------|--------------|
| C6-C10                       | 50.0          | 70.2          |               | mg/Kg |   | 140  | 62 - 141     |
| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |
| a,a,a-Trifluorotoluene (fid) | 88            |               | 65 - 125      |       |   |      |              |

Lab Sample ID: 400-160685-1 MS

Matrix: Solid

Analysis Batch: 417044

Client Sample ID: SVE-2 (15-16)

Prep Type: Total/NA

Prep Batch: 417054

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|--|
| C6-C10                       | 280           |                  | 67.2        | 339       | 4            | mg/Kg | ☼ | 89   | 10 - 150     |  |  |
| Surrogate                    | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |  |  |
| a,a,a-Trifluorotoluene (fid) | 72            |                  | 65 - 125    |           |              |       |   |      |              |  |  |

Lab Sample ID: 400-160685-1 MSD

Matrix: Solid

Analysis Batch: 417044

Client Sample ID: SVE-2 (15-16)

Prep Type: Total/NA

Prep Batch: 417054

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| C6-C10                       | 280           |                  | 67.2        | 321        | 4             | mg/Kg | ☼ | 61   | 10 - 150     | 6   | 32    |
| Surrogate                    | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |       |
| a,a,a-Trifluorotoluene (fid) | 88            |                  | 65 - 125    |            |               |       |   |      |              |     |       |

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 400-417054/1-A

Matrix: Solid

Analysis Batch: 417046

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 417054

| Analyte                      | MB Result    | MB Qualifier | RL       | Unit           | D              | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------------|----------------|----------------|----------------|---------|
| Benzene                      | <0.050       |              | 0.050    | mg/Kg          |                | 10/26/18 08:40 | 10/29/18 16:48 | 50      |
| Ethylbenzene                 | <0.050       |              | 0.050    | mg/Kg          |                | 10/26/18 08:40 | 10/29/18 16:48 | 50      |
| Toluene                      | <0.25        |              | 0.25     | mg/Kg          |                | 10/26/18 08:40 | 10/29/18 16:48 | 50      |
| Xylenes, Total               | <0.25        |              | 0.25     | mg/Kg          |                | 10/26/18 08:40 | 10/29/18 16:48 | 50      |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac        |                |         |
| a,a,a-Trifluorotoluene (pid) | 98           |              | 40 - 150 | 10/26/18 08:40 | 10/29/18 16:48 | 50             |                |         |

Lab Sample ID: LCS 400-417054/2-A

Matrix: Solid

Analysis Batch: 417046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 417054

| Analyte      | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene      | 2.50        | 3.03       |               | mg/Kg |   | 121  | 74 - 127     |
| Ethylbenzene | 2.50        | 3.16       |               | mg/Kg |   | 126  | 79 - 131     |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-417054/2-A

Matrix: Solid

Analysis Batch: 417046

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 417054

| Analyte                      | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------------|---------------|---------------|---------------|-------|---|------|--------------|
| Toluene                      | 2.50          | 3.09          |               | mg/Kg |   | 124  | 76 - 127     |
| Xylenes, Total               | 7.50          | 9.47          |               | mg/Kg |   | 126  | 80 - 129     |
| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |
| a,a,a-Trifluorotoluene (pid) | 89            |               | 40 - 150      |       |   |      |              |

Lab Sample ID: 400-160685-1 MS

Matrix: Solid

Analysis Batch: 417046

Client Sample ID: SVE-2 (15-16)

Prep Type: Total/NA

Prep Batch: 417054

| Analysis Date: 4/1/04        |               |                  |             |           |              |       |   |      |              | Rep Date: 4/1/04 |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|------------------|--|
| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |                  |  |
| Benzene                      | 0.88          |                  | 3.36        | 4.78      |              | mg/Kg | ☼ | 116  | 10 - 150     |                  |  |
| Ethylbenzene                 | 1.4           |                  | 3.36        | 5.68      |              | mg/Kg | ☼ | 127  | 10 - 150     |                  |  |
| Toluene                      | 7.3           |                  | 3.36        | 11.9      |              | mg/Kg | ☼ | 135  | 10 - 150     |                  |  |
| Xylenes, Total               | 11            |                  | 10.1        | 22.4      |              | mg/Kg | ☼ | 116  | 50 - 150     |                  |  |
|                              |               |                  |             |           |              |       |   |      |              |                  |  |
| Surrogate                    | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |                  |  |
| a,a,a-Trifluorotoluene (pid) | 72            |                  | 40 - 150    |           |              |       |   |      |              |                  |  |

Lab Sample ID: 400-160685-1 MSD

Matrix: Solid

Analysis Batch: 417046

Client Sample ID: SVE-2 (15-16)

Prep Type: Total/NA

Prep Batch: 417054

| Top Data: Three              |               |                  |             |            |               |       |   |      |              |     |           |
|------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
| Benzene                      | 0.88          |                  | 3.36        | 4.67       |               | mg/Kg | ☼ | 113  | 10 - 150     | 2   | 34        |
| Ethylbenzene                 | 1.4           |                  | 3.36        | 5.54       |               | mg/Kg | ☼ | 123  | 10 - 150     | 2   | 66        |
| Toluene                      | 7.3           |                  | 3.36        | 11.4       |               | mg/Kg | ☼ | 120  | 10 - 150     | 4   | 44        |
| Xylenes, Total               | 11            |                  | 10.1        | 21.8       |               | mg/Kg | ☼ | 110  | 50 - 150     | 3   | 46        |
|                              |               |                  |             |            |               |       |   |      |              |     |           |
| Surrogate                    | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| a,a,a-Trifluorotoluene (pid) | 75            |                  | 40 - 150    |            |               |       |   |      |              |     |           |

Lab Sample ID: MB 400-417429/2-A

Matrix: Solid

Analysis Batch: 417104

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 417429

| Analyte                      | MB Result    | MB Qualifier | RL       | Unit           | D              | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------------|----------------|----------------|----------------|---------|
| Benzene                      | <0.0010      |              | 0.0010   | mg/Kg          |                | 10/26/18 15:00 | 10/26/18 18:54 | 1       |
| Ethylbenzene                 | <0.0010      |              | 0.0010   | mg/Kg          |                | 10/26/18 15:00 | 10/26/18 18:54 | 1       |
| Toluene                      | <0.0050      |              | 0.0050   | mg/Kg          |                | 10/26/18 15:00 | 10/26/18 18:54 | 1       |
| Xylenes, Total               | <0.0050      |              | 0.0050   | mg/Kg          |                | 10/26/18 15:00 | 10/26/18 18:54 | 1       |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac        |                |         |
| a,a,a-Trifluorotoluene (pid) | 97           |              | 40 - 150 | 10/26/18 15:00 | 10/26/18 18:54 | 1              |                |         |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-417429/1-A

Matrix: Solid

Analysis Batch: 417104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 417429

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | Limits   |
|----------------|-------------|------------|---------------|-------|---|------|----------|
| Benzene        | 0.0500      | 0.0495     |               | mg/Kg |   | 99   | 74 - 127 |
| Ethylbenzene   | 0.0500      | 0.0510     |               | mg/Kg |   | 102  | 79 - 131 |
| Toluene        | 0.0500      | 0.0507     |               | mg/Kg |   | 101  | 76 - 127 |
| Xylenes, Total | 0.150       | 0.152      |               | mg/Kg |   | 102  | 80 - 129 |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| a,a,a-Trifluorotoluene (pid) | 94            |               | 40 - 150 |

Lab Sample ID: 400-160685-3 MS

Matrix: Solid

Analysis Batch: 417104

Client Sample ID: SVE-3 (13-14)

Prep Type: Total/NA

Prep Batch: 417429

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|----------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Benzene        | <0.0012       |                  | 0.0576      | 0.0497    |              | mg/Kg | ☼ | 86   | 10 - 150 |
| Ethylbenzene   | <0.0012       |                  | 0.0576      | 0.0477    |              | mg/Kg | ☼ | 83   | 10 - 150 |
| Toluene        | <0.0060       |                  | 0.0576      | 0.0489    |              | mg/Kg | ☼ | 85   | 10 - 150 |
| Xylenes, Total | <0.0060       |                  | 0.173       | 0.144     |              | mg/Kg | ☼ | 81   | 50 - 150 |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| a,a,a-Trifluorotoluene (pid) | 94           |              | 40 - 150 |

Lab Sample ID: 400-160685-3 MSD

Matrix: Solid

Analysis Batch: 417104

Client Sample ID: SVE-3 (13-14)

Prep Type: Total/NA

Prep Batch: 417429

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-----------|
| Benzene        | <0.0012       |                  | 0.0597      | 0.0422     |               | mg/Kg | ☼ | 71   | 10 - 150 | 16  | 34        |
| Ethylbenzene   | <0.0012       |                  | 0.0597      | 0.0453     |               | mg/Kg | ☼ | 76   | 10 - 150 | 5   | 66        |
| Toluene        | <0.0060       |                  | 0.0597      | 0.0440     |               | mg/Kg | ☼ | 74   | 10 - 150 | 11  | 44        |
| Xylenes, Total | <0.0060       |                  | 0.179       | 0.138      |               | mg/Kg | ☼ | 75   | 50 - 150 | 5   | 46        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| a,a,a-Trifluorotoluene (pid) | 93            |               | 40 - 150 |

Lab Sample ID: MB 400-417577/2-A

Matrix: Solid

Analysis Batch: 417389

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 417577

| Analyte | MB Result | MB Qualifier | RL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|--------|-------|---|----------------|----------------|---------|
| Toluene | <0.0050   |              | 0.0050 | mg/Kg |   | 10/29/18 12:00 | 10/29/18 13:43 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------------|----------------|---------|
| a,a,a-Trifluorotoluene (pid) | 89           |              | 40 - 150 | 10/29/18 12:00 | 10/29/18 13:43 | 1       |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 400-417577/1-A

Matrix: Solid

Analysis Batch: 417389

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 417577

| Analyte                      | Spike Added | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------------|-------------|---------------|---------------|-------|---|------|--------------|
| Toluene                      | 0.0500      | 0.0560        |               | mg/Kg |   | 112  | 76 - 127     |
| Surrogate                    | %Recovery   | LCS Qualifier | Limits        |       |   |      |              |
| a,a,a-Trifluorotoluene (pid) | 90          |               | 40 - 150      |       |   |      |              |

Lab Sample ID: 400-160685-2 MS

Matrix: Solid

Analysis Batch: 417389

Client Sample ID: SVE-2 (25-26)

Prep Type: Total/NA

Prep Batch: 417577

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Toluene                      | 0.44          | H                | 0.0922      | 0.520     | 4            | mg/Kg | ☼ | 84   | 10 - 150     |
| Surrogate                    | %Recovery     | MS Qualifier     | Limits      |           |              |       |   |      |              |
| a,a,a-Trifluorotoluene (pid) | 92            |                  | 40 - 150    |           |              |       |   |      |              |

Lab Sample ID: 400-160685-2 MSD

Matrix: Solid

Analysis Batch: 417389

Client Sample ID: SVE-2 (25-26)

Prep Type: Total/NA

Prep Batch: 417577

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Toluene                      | 0.44          | H                | 0.0957      | 0.688      | E 4           | mg/Kg | ☼ | 256  | 10 - 150     | 28  | 44    |
| Surrogate                    | %Recovery     | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |       |
| a,a,a-Trifluorotoluene (pid) | 93            |                  | 40 - 150    |            |               |       |   |      |              |     |       |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 400-415976/1-A

Matrix: Solid

Analysis Batch: 416269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 415976

| Analyte     | MB Result | MB Qualifier | RL       | Unit           | D              | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|--------------|----------|----------------|----------------|----------------|----------------|---------|
| C10-C28     | <5.0      |              | 5.0      | mg/Kg          |                | 10/18/18 14:02 | 10/20/18 16:41 | 1       |
| C28-C35     | <5.0      |              | 5.0      | mg/Kg          |                | 10/18/18 14:02 | 10/20/18 16:41 | 1       |
| Surrogate   | %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac        |                |         |
| o-Terphenyl | 81        |              | 27 - 151 | 10/18/18 14:02 | 10/20/18 16:41 | 1              |                |         |

Lab Sample ID: LCS 400-415976/2-A

Matrix: Solid

Analysis Batch: 416269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 415976

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| C10-C28 | 287         | 221        |               | mg/Kg |   | 77   | 63 - 153     |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 400-415976/2-A  
Matrix: Solid  
Analysis Batch: 416269

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 415976

| Surrogate   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-------------|------------------|------------------|----------|
| o-Terphenyl | 84               |                  | 27 - 151 |

Lab Sample ID: 400-160685-3 MS  
Matrix: Solid  
Analysis Batch: 416269

Client Sample ID: SVE-3 (13-14)  
Prep Type: Total/NA  
Prep Batch: 415976

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |  |
|-------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|--|
| C10-C28     | <6.0          | F2 F1            | 343         | 272       |              | mg/Kg | ☼ | 79   | 62 - 204     |  |  |
| Surrogate   | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |  |  |
| o-Terphenyl | 83            |                  | 27 - 151    |           |              |       |   |      |              |  |  |

Lab Sample ID: 400-160685-3 MSD  
Matrix: Solid  
Analysis Batch: 416269

Client Sample ID: SVE-3 (13-14)  
Prep Type: Total/NA  
Prep Batch: 415976

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| C10-C28     | <6.0          | F2 F1            | 343         | 192        | F2 F1         | mg/Kg | ☼ | 55   | 62 - 204     | 35  | 30        |
| Surrogate   | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| o-Terphenyl | 59            |                  | 27 - 151    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-416464/1-A  
Matrix: Solid  
Analysis Batch: 416573

Client Sample ID: Method Blank  
Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|----|-------|---|----------|----------------|---------|
| Chloride | <19          |                 | 19 | mg/Kg |   |          | 10/23/18 16:02 | 1       |

Lab Sample ID: LCS 400-416464/2-A  
Matrix: Solid  
Analysis Batch: 416573

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 104            | 101           |                  | mg/Kg |   | 97   | 80 - 120        |

Lab Sample ID: LCSD 400-416464/3-A  
Matrix: Solid  
Analysis Batch: 416573

Client Sample ID: Lab Control Sample Dup  
Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 98.8           | 96.4           |                   | mg/Kg |   | 98   | 80 - 120        | 4   | 15           |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-160898-A-1-B MS

Matrix: Solid

Analysis Batch: 416573

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | <28           |                  | 139         | 138       |              | mg/Kg | ☼ | 93   | 80 - 120     |

Lab Sample ID: 400-160898-A-1-C MSD

Matrix: Solid

Analysis Batch: 416573

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | <28           |                  | 144         | 147        |               | mg/Kg | ☼ | 96   | 80 - 120     | 6   | 15        |

Lab Sample ID: MB 400-416464/1-A

Matrix: Solid

Analysis Batch: 416574

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|----|-------|---|----------|----------------|---------|
| Chloride | <19       |              | 19 | mg/Kg |   |          | 10/23/18 16:02 | 1       |

Lab Sample ID: LCS 400-416464/2-A

Matrix: Solid

Analysis Batch: 416574

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 104         | 101        |               | mg/Kg |   | 97   | 80 - 120     |

Lab Sample ID: LCSD 400-416464/3-A

Matrix: Solid

Analysis Batch: 416574

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 98.8        | 96.4        |                | mg/Kg |   | 98   | 80 - 120     | 4   | 15        |

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Client Sample ID: SVE-2 (15-16)**

**Date Collected: 10/13/18 12:55**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-1**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 416407       | 10/22/18 12:28       | TMP     | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-2 (15-16)**

**Date Collected: 10/13/18 12:55**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-1**

**Matrix: Solid**

**Percent Solids: 72.0**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 5.17 g         | 5.00 g       | 417054       | 10/26/18 08:40       | MEP     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 50         | 5 mL           | 5 mL         | 417044       | 10/26/18 13:49       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 5.17 g         | 5.00 g       | 417054       | 10/26/18 08:40       | MEP     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 50         | 5 mL           | 5 mL         | 417046       | 10/26/18 13:49       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 3546         |     |            | 15.11 g        | 1.0 mL       | 415976       | 10/18/18 14:02       | KLR     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          |                |              | 416269       | 10/20/18 17:58       | TAJ     | TAL PEN |
| Instrument ID: Eva     |            |              |     |            |                |              |              |                      |         |         |
| Soluble                | Leach      | DI Leach     |     |            | 2.49 g         | 50 mL        | 416464       | 10/22/18 15:31       | BAW     | TAL PEN |
| Soluble                | Analysis   | 300.0        |     | 1          |                |              | 416574       | 10/23/18 21:44       | BAW     | TAL PEN |
| Instrument ID: IC2     |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-2 (25-26)**

**Date Collected: 10/13/18 13:20**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-2**

**Matrix: Solid**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | Moisture     |     | 1          |                |              | 416407       | 10/22/18 12:28       | TMP     | TAL PEN |
| Instrument ID: NOEQUIP |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-2 (25-26)**

**Date Collected: 10/13/18 13:20**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-2**

**Matrix: Solid**

**Percent Solids: 76.2**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Prep       | 5035         |     |            | 5.44 g         | 5.0 g        | 416978       | 10/25/18 09:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8015B        |     | 1          | 5 mL           | 5 mL         | 416879       | 10/25/18 16:10       | GRK     | TAL PEN |
| Instrument ID: CH_RITA |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 5.14 g         | 5.0 g        | 417429       | 10/26/18 15:00       | MEP     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 417104       | 10/26/18 21:22       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Prep       | 5035         |     |            | 3.42 g         | 5.0 g        | 417577       | 10/29/18 12:00       | GRK     | TAL PEN |
| Total/NA               | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 417389       | 10/29/18 18:44       | GRK     | TAL PEN |
| Instrument ID: CH_JOAN |            |              |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Client Sample ID: SVE-2 (25-26)**

**Date Collected: 10/13/18 13:20**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-2**

**Matrix: Solid**

**Percent Solids: 76.2**

| Prep Type | Batch Type | Batch Method       | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546               |     |            | 15.03 g        | 1.0 mL       | 415976       | 10/18/18 14:02       | KLR     | TAL PEN |
| Total/NA  | Analysis   | 8015B              |     | 1          |                |              | 416269       | 10/20/18 18:11       | TAJ     | TAL PEN |
|           |            | Instrument ID: Eva |     |            |                |              |              |                      |         |         |
| Soluble   | Leach      | DI Leach           |     |            | 2.47 g         | 50 mL        | 416464       | 10/22/18 15:31       | BAW     | TAL PEN |
| Soluble   | Analysis   | 300.0              |     | 1          |                |              | 416574       | 10/23/18 22:07       | BAW     | TAL PEN |
|           |            | Instrument ID: IC2 |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-3 (13-14)**

**Date Collected: 10/13/18 14:50**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-3**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture               |     | 1          |                |              | 416407       | 10/22/18 12:28       | TMP     | TAL PEN |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-3 (13-14)**

**Date Collected: 10/13/18 14:50**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-3**

**Matrix: Solid**

**Percent Solids: 83.3**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035                   |     |            | 5.24 g         | 5.0 g        | 416978       | 10/25/18 09:00       | GRK     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 1          | 5 mL           | 5 mL         | 416879       | 10/25/18 13:06       | GRK     | TAL PEN |
|           |            | Instrument ID: CH_RITA |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 5035                   |     |            | 5.00 g         | 5.0 g        | 417429       | 10/26/18 15:00       | MEP     | TAL PEN |
| Total/NA  | Analysis   | 8021B                  |     | 1          | 5 mL           | 5 mL         | 417104       | 10/26/18 19:32       | GRK     | TAL PEN |
|           |            | Instrument ID: CH_JOAN |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 3546                   |     |            | 15.05 g        | 1.0 mL       | 415976       | 10/18/18 14:02       | KLR     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 1          |                |              | 416269       | 10/20/18 17:45       | TAJ     | TAL PEN |
|           |            | Instrument ID: Eva     |     |            |                |              |              |                      |         |         |
| Soluble   | Leach      | DI Leach               |     |            | 2.54 g         | 50 mL        | 416464       | 10/22/18 15:31       | BAW     | TAL PEN |
| Soluble   | Analysis   | 300.0                  |     | 1          |                |              | 416574       | 10/23/18 22:30       | BAW     | TAL PEN |
|           |            | Instrument ID: IC2     |     |            |                |              |              |                      |         |         |

**Client Sample ID: SVE-3 (26-27)**

**Date Collected: 10/13/18 15:00**

**Date Received: 10/16/18 09:11**

**Lab Sample ID: 400-160685-4**

**Matrix: Solid**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | Moisture               |     | 1          |                |              | 416407       | 10/22/18 12:28       | TMP     | TAL PEN |
|           |            | Instrument ID: NOEQUIP |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

**Client Sample ID: SVE-3 (26-27)**

**Lab Sample ID: 400-160685-4**

**Date Collected: 10/13/18 15:00**

**Matrix: Solid**

**Date Received: 10/16/18 09:11**

**Percent Solids: 73.2**

| Prep Type | Batch Type | Batch Method           | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|------------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035                   |     |            | 5.98 g         | 5.0 g        | 416978       | 10/25/18 09:00       | GRK     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 1          | 5 mL           | 5 mL         | 416879       | 10/25/18 15:44       | GRK     | TAL PEN |
|           |            | Instrument ID: CH_RITA |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 5035                   |     |            | 5.09 g         | 5.0 g        | 417429       | 10/26/18 15:00       | MEP     | TAL PEN |
| Total/NA  | Analysis   | 8021B                  |     | 1          | 5 mL           | 5 mL         | 417104       | 10/26/18 21:59       | GRK     | TAL PEN |
|           |            | Instrument ID: CH_JOAN |     |            |                |              |              |                      |         |         |
| Total/NA  | Prep       | 3546                   |     |            | 15.39 g        | 1.0 mL       | 415976       | 10/18/18 14:02       | KLR     | TAL PEN |
| Total/NA  | Analysis   | 8015B                  |     | 1          |                |              | 416269       | 10/20/18 18:24       | TAJ     | TAL PEN |
|           |            | Instrument ID: Eva     |     |            |                |              |              |                      |         |         |
| Soluble   | Leach      | DI Leach               |     |            | 2.47 g         | 50 mL        | 416464       | 10/22/18 15:31       | BAW     | TAL PEN |
| Soluble   | Analysis   | 300.0                  |     | 1          |                |              | 416574       | 10/23/18 22:53       | BAW     | TAL PEN |
|           |            | Instrument ID: IC2     |     |            |                |              |              |                      |         |         |

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

### Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-19        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-19        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-19        |
| California             | State Program | 9          | 2510                  | 06-30-19        |
| Florida                | NELAP         | 4          | E81010                | 06-30-19        |
| Georgia                | State Program | 4          | E81010 (FL)           | 06-30-19        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-19        |
| Iowa                   | State Program | 7          | 367                   | 08-01-20        |
| Kansas                 | NELAP         | 7          | E-10253               | 10-31-18        |
| Kentucky (UST)         | State Program | 4          | 53                    | 06-30-19        |
| Kentucky (WW)          | State Program | 4          | 98030                 | 12-31-18        |
| Louisiana              | NELAP         | 6          | 30976                 | 06-30-19        |
| Louisiana (DW)         | NELAP         | 6          | LA170005              | 12-31-18        |
| Maryland               | State Program | 3          | 233                   | 09-30-19        |
| Massachusetts          | State Program | 1          | M-FL094               | 06-30-19        |
| Michigan               | State Program | 5          | 9912                  | 06-30-19        |
| New Jersey             | NELAP         | 2          | FL006                 | 06-30-19        |
| North Carolina (WW/SW) | State Program | 4          | 314                   | 12-31-18        |
| Oklahoma               | State Program | 6          | 9810                  | 08-31-19        |
| Pennsylvania           | NELAP         | 3          | 68-00467              | 01-31-19        |
| Rhode Island           | State Program | 1          | LAO00307              | 12-30-18        |
| South Carolina         | State Program | 4          | 96026                 | 06-30-19        |
| Tennessee              | State Program | 4          | TN02907               | 06-30-19        |
| Texas                  | NELAP         | 6          | T104704286-18-16      | 09-30-19        |
| US Fish & Wildlife     | Federal       |            | LE058448-0            | 07-31-19        |
| USDA                   | Federal       |            | P330-18-00148         | 05-17-21        |
| Virginia               | NELAP         | 3          | 460166                | 06-14-19        |
| Washington             | State Program | 10         | C915                  | 05-15-19        |
| West Virginia DEP      | State Program | 3          | 136                   | 06-30-19        |

## Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - LAT L 40

TestAmerica Job ID: 400-160685-1

| Method   | Method Description                 | Protocol | Laboratory |
|----------|------------------------------------|----------|------------|
| 8015B    | Gasoline Range Organics - (GC)     | SW846    | TAL PEN    |
| 8021B    | Volatile Organic Compounds (GC)    | SW846    | TAL PEN    |
| 8015B    | Diesel Range Organics (DRO) (GC)   | SW846    | TAL PEN    |
| 300.0    | Anions, Ion Chromatography         | MCAWW    | TAL PEN    |
| Moisture | Percent Moisture                   | EPA      | TAL PEN    |
| 3546     | Microwave Extraction               | SW846    | TAL PEN    |
| 5035     | Closed System Purge and Trap       | SW846    | TAL PEN    |
| DI Leach | Deionized Water Leaching Procedure | ASTM     | TAL PEN    |

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

### Laboratory References:

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

## Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

|                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                  |  |                                                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Ms. Sarah Gardner<br>Company: Stantec Consulting Services Inc                                                                                                                                                                                                                           |  | Lab PM: Webb, Carol M<br>E-Mail: carol.webb@teslamerica.com                                                                                                                                                 |  | Carrier Tracking No(s): 400-160885 COC<br>400-77305-30160.1                                                                                                                                                                      |  | COC No:<br>Page: 1 of 1                               |  |
| Address: 1560 Broadway Suite 1800<br>City: Denver<br>State, Zip: CO, 80202<br>Phone: 303-291-2239 (Tel)<br>Email: sarah.gardner@mwhglobal.com<br>Project Name: LAT L 40<br>Site: LAT L 40                                                                                                                                            |  | Due Date Requested: Per Art<br>TAT Requested (days): Per Art<br>PO #: See Project Notes<br>WO #: 40005479<br>Project #: 40005479<br>SSOW#:                                                                  |  | <b>Analysis Requested</b>                                                                                                                                                                                                        |  |                                                       |  |
| <b>Sample Identification</b><br>SVE-2 (15-16)<br>SVE-2 (25-26)<br>SVE-3 (13-14)<br>SVE-3 (26-27)                                                                                                                                                                                                                                     |  | Sample Date<br>10/13/18<br>10/13/18<br>10/13/18<br>10/13/18                                                                                                                                                 |  | Sample Time<br>1255<br>1320<br>1450<br>1500                                                                                                                                                                                      |  | Sample Type (C=Comp, G=grab)<br>G<br>G<br>G<br>G      |  |
|                                                                                                                                                                                                                                                                                                                                      |  | Matrix (V=water, S=solid, O=other, BT=Tissue, AA=Air)<br>S<br>S<br>S<br>S                                                                                                                                   |  | Field Filtered Sample (Yes or No)<br>N<br>N<br>N<br>N                                                                                                                                                                            |  | Field Filtered Sample (Yes or No)<br>N<br>N<br>N<br>N |  |
| Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Anchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:                                                                                                                            |  | Preservation Codes:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |  | Special Instructions/Note:<br>Total Number of Containers: 3<br>300_ORGFM_280 - Chloride<br>8015B_GRO_8021B<br>8015B_DRO - TPH DRO ORO                                                                                            |  |                                                       |  |
| <b>Possible Hazard Identification</b><br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested: I, II, III, IV, Other (specify) |  | Date: 10-15-18 1700<br>Date/Time: 10-15-18 1700                                                                                                                                                             |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)<br><input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months |  |                                                       |  |
| Empty Kit Relinquished by: Marc Hs<br>Relinquished by: Marc Hs<br>Relinquished by: Marc Hs<br>Relinquished by: Marc Hs                                                                                                                                                                                                               |  | Date: 10-15-18 1700<br>Date/Time: 10-15-18 1700                                                                                                                                                             |  | Special Instructions/QC Requirements:<br>Method of Shipment:                                                                                                                                                                     |  |                                                       |  |
| Relinquished by: Marc Hs<br>Relinquished by: Marc Hs<br>Relinquished by: Marc Hs<br>Relinquished by: Marc Hs                                                                                                                                                                                                                         |  | Date: 10-15-18 1700<br>Date/Time: 10-15-18 1700                                                                                                                                                             |  | Cooler Temperature(s) °C and Other Remarks: 0.70°C - 288                                                                                                                                                                         |  |                                                       |  |

## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-160685-1

Login Number: 160685

List Source: TestAmerica Pensacola

List Number: 1

Creator: Perez, Trina M

| Question                                                                                 | Answer | Comment    |
|------------------------------------------------------------------------------------------|--------|------------|
| Radioactivity wasn't checked or is $\leq$ 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   | 0.7°C IR-8 |
| COC is present.                                                                          | True   |            |
| COC is filled out in ink and legible.                                                    | True   |            |
| COC is filled out with all pertinent information.                                        | True   |            |
| Is the Field Sampler's name present on COC?                                              | True   |            |
| There are no discrepancies between the containers received and the COC.                  | True   |            |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |            |
| Sample containers have legible labels.                                                   | True   |            |
| Containers are not broken or leaking.                                                    | True   |            |
| Sample collection date/times are provided.                                               | True   |            |
| Appropriate sample containers are used.                                                  | True   |            |
| Sample bottles are completely filled.                                                    | True   |            |
| Sample Preservation Verified.                                                            | 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 $<6\text{mm}$ (1/4"). | N/A    |            |
| Multiphasic samples are not present.                                                     | True   |            |
| Samples do not require splitting or compositing.                                         | True   |            |
| Residual Chlorine Checked.                                                               | N/A    |            |

# APPENDIX D



BOL# 62140

## CHLORIDE TESTING / PAINT FILTER TESTING

DATE 10-23-18 TIME 13:40 Attach test strip hereCUSTOMER 21 PasoSITE Lat 2-40DRIVER JAT ClickerSAMPLE Soil Straight \_\_\_\_\_ With Dirt \_\_\_\_\_CHLORIDE TEST -270 mg/KgACCEPTED YES ✓ NO \_\_\_\_\_PAINT FILTER TEST Time started 13:40 Time completed 13:45PASS YES ✓ NO \_\_\_\_\_SAMPLER/ANALYST Dave

# APPENDIX E

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

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

Form C-138  
Revised August 1, 2011

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

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

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

2. Originating Site(s):

Fields A#7A, Fogelson 4-1, Gallegos Canyon Unit #124E, GCU Com A #142E, James F. Bell #1E, Knight #1, Lat L 40, and State Gas Com N #1.

3. Location of Material (Street Address, City, State or ULSTR):

Unit E, Sec. 34, T32N, R11W; Unit P, Sec. 4, T29N, R11W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit P, Sec. 10, T30N, R13W; Unit A, Sec. 5, T30N, R13W; Unit H, Sec. 13, T28N, R04W; Unit H, Sec. 16, T31N, R12W, respectively.

4. Source and Description of Waste:

Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site.

Estimated Volume 1 yd<sup>3</sup> (bbls) Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ yd<sup>3</sup> / bbls

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

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

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

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

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

**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**

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

5. Transporter: Stantec Consulting Services

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005

Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285

Method of Treatment and/or Disposal:

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

**Waste Acceptance Status:**

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME:

Vernon Ferguson

TITLE:

Attorney

DATE:

5/19/18

SIGNATURE:

[Signature]  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.:

505-637-8936

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. **714236**  
NMOCD PERMIT: NM-001-0005  
Oil Field Waste Document, Form C138  
INVOICE:

DATE 5/19/16

GENERATOR: El Paso

HAULING CO. Stem Tech

ORDERED BY: Joseph

DEL. TKT#.

BILL TO: El Paso

DRIVER: Saidh  
(Print Full Name)

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste

☒ Produced Water

☐ Drilling/Completion Fluids

☐ Reserve Pit

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

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

| NO. | TRUCK | LOCATION(S)                                      | VOLUME | COST | H2S | COST | TOTAL | TIME |
|-----|-------|--------------------------------------------------|--------|------|-----|------|-------|------|
| 1   |       | Field #7A, Fogelson H<br>Gallinas Canyon NM 12AE | 1060   | .70  |     | \$00 | 70    |      |
| 2   |       | SCU 20MA 192E Turner<br>Knights Lat L 40E        | 111E   | .70  |     |      |       |      |
| 3   |       | State Gas (cont N#)                              |        |      |     |      |       |      |
| 4   |       |                                                  |        |      |     |      |       |      |
| 5   |       |                                                  |        |      |     |      |       |      |

I, \_\_\_\_\_ representative 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]*

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

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

Form C-138  
Revised August 1, 2011

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

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Generator Name and Address:</b><br>El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>2. Originating Site(s):</b><br>Lateral L 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>3. Location of Material (Street Address, City, State or ULSTR):</b><br>Unit H, Sec. 13, T28N, R04W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>4. Source and Description of Waste:</b><br>A historic release has occurred on the above-referenced property. As part of environmental remediation activities, 5 monitoring wells and three test wells is being installed. The well development and decontamination water will be removed from the Site.<br><br>Estimated Volume <u>10</u> yd <sup>3</sup> (bbls) Known Volume (to be entered by the operator at the end of the haul) _____ yd <sup>3</sup> / bbls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b><br>I, <u>Joseph Wiley</u> , representative or authorized agent for <u>El Paso CGP Company L.L.C.</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)<br><br><input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Per Load<br><br><input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)<br><br><input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)<br><br><b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b><br>I, _____, representative for _____ do hereby certify that <u>representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.</u> |
| <b>5. Transporter: Sierra Oilfield Services</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005  
Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285  
Method of Treatment and/or Disposal:

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

### Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: \_\_\_\_\_

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

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

Form C-138  
Revised August 1, 2011

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

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <b>Generator Name and Address:</b><br>El Paso CGP Company L.L.C., 1001 Louisiana Street, Houston, TX 77002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2. <b>Originating Site(s):</b><br>Fogelson 4-1, Gallegos Canyon Unit #124E, GCU Com A #142E, Sandoval GC A#1A, James F. Bell #1E, Knight #1, Lat L 40, and State Gas Com N #1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3. <b>Location of Material (Street Address, City, State or ULSTR):</b><br>Unit P, Sec. 4, T29N, R11W; Unit N, Sec. 35, T28N, R12W; Unit G, Sec. 25, R29N, R12W; Unit H, Sec. 13, T28N, R04W; Unit P, Sec. 10, T30N, R13W; Unit A, Sec. 5, T30N, R13W; Unit H, Sec. 13, T28N, R04W; Unit H, Sec. 16, T31N, R12W, respectively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4. <b>Source and Description of Waste:</b><br>Historic releases occurred on the above-referenced properties. As part of environmental remediation activities, monitoring wells will be sampled and purged groundwater will be removed from the Site. Wastewater generated from aquifer testing of existing monitoring wells at the State Gas Com N#1 site is also being removed from the subject site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Estimated Volume $1 \text{ yd}^3$ (bbls) Known Volume (to be entered by the operator at the end of the haul) $\text{yd}^3$ / bbls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5. <b>GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b><br>I, <u>Joseph Wiley</u> , representative or authorized agent for <u>El Paso CGP Company L.L.C.</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)<br><input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input checked="" type="checkbox"/> Per Load<br><input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)<br><input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) |
| <b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b><br>I, <u>Veran Yener</u> , representative for <u>El Paso CGP Company L.L.C.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5. <b>Transporter: Stantec Consulting Services</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005  
Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285  
Method of Treatment and/or Disposal:

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

### Waste Acceptance Status:

☒ **APPROVED**

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

PRINT NAME:

Danica Hernandez

TITLE:

[Redacted]

DATE:

[Redacted]

SIGNATURE:

[Signature]  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.:

[Redacted]

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. **727466**  
NMOC D PERMIT: NM-001-0005  
Oil Field Waste Document, Form C138  
INVOICE:

DATE: 11-1-18  
GENERATOR: El Paso Corp  
HAULING CO.: Stantec Consulting  
ORDERED BY: Joe W.

DEL. TKT#: \_\_\_\_\_  
BILL TO: El Paso Corp  
DRIVER: Garrah G.  
(Print Full Name)  
CODES: \_\_\_\_\_

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste

☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☐ NM ☐ CO ☐ AZ ☐ UT

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

| NO. | TRUCK | LOCATION(S)                       | VOLUME | COST | H2S | COST | TOTAL | TIME      |
|-----|-------|-----------------------------------|--------|------|-----|------|-------|-----------|
| 1   |       | Form on 14-1<br>State Gas Com N#1 | 1      | 70   |     |      | 70    |           |
| 2   |       | Croft/Cros Canyon<br>LEAD #121E   |        |      |     |      | 18NOV | 1 5:45 PM |
| 3   |       | Cell 11 Area #11102               |        |      |     |      |       |           |
| 4   |       | Knight #1<br>Mudrock GCH #1A      |        |      |     |      |       |           |
| 5   |       | Truss 5 Cell #1E<br>Lat 40        |        |      |     |      |       |           |

I, \_\_\_\_\_ representative 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 08180188

representative samples of the oil field waste have been subjected to the paint filter test and the results have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: Stantec Consulting Services

## OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc., Permit # NM1-005  
Address of Facility: 906 S. Main Avenue, Aztec, NM 87410-2285  
Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Damian Hernandez

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_

Surface Waste Management Facility Authorized Agent

# APPENDIX F



October 20, 2018

Mr. Stephen Varsa  
Supervising Hydrogeologist  
Stantec Consulting Services, Inc.  
11153 Aurora Avenue  
Des Moines, IA 50322

Dear Steve:

Re: Lateral L-40 Site, Rio Arriba County, NM (SVE Step Test #1)

At your request, AcuVac Remediation (AcuVac) performed four Soil Vapor Extraction (SVE) Step Tests at the above referenced site (Site) as outlined in Table A below, on October 20, 2018. Following is the Report and a copy of the Operating Data collected during the SVE Step Tests. Table #1 contains the summary data for all the SVE Step Tests. The contaminant is Non-Aqueous Phase Liquid (NAPL) which includes Light Non-Aqueous Phase Liquid (LNAPL).

| Table A      |             |                      |              |
|--------------|-------------|----------------------|--------------|
| Event Number | Well Number | Event Duration (hrs) | Test Summary |
| #1A          | MW-1        | 1.25                 | Table #2     |
| #1B          | SVE-1       | 1.75                 | Table #3     |
| #1C          | SVE-2       | 1.50                 | Table #4     |
| #1D          | SVE-3       | 2.25                 | Table #5     |

#### **SVE STEP TEST OBJECTIVES**

- Determine well vacuum and vapor flow of each well.
- Provide vapor phase total petroleum hydrocarbons concentrations in the influent vapors.
- Provide background data on the soil vapor plume area.

#### **SVE STEP TEST DESCRIPTION**

A Step Test is a short SVE Test of 0.5 to 2.0 hours conducted from an existing monitoring or observation well located on-site and off-site. The test provides data on the soil vapor plume area, which may not totally conform to the groundwater plume. Each SVE Step Test provides well vacuum and well vapor flow data. From a soil gas sample (influent vapor), the HORIBA® Analyzer can provide total petroleum hydrocarbons in ppmv and the percent of CO<sub>2</sub> and CO. Additional instrumentation provides O<sub>2</sub> data. The depth to groundwater and depth to NAPL are also recorded. This informative data confirms whether or not the outer wells are within the vapor plume area and are functional.

## METHODS AND EQUIPMENT

AcuVac owns and maintains an inventory of equipment to perform SVE Step Tests. The tests at the Site were conducted using the AcuVac I-6 System with a Roots RAI-33 blower, used as a vacuum pump, and a Roots RAI-22 positive displacement blower. The following table lists equipment and instrumentation employed in these tests and the data recorded by each.

| Instrumentation Employed by AcuVac              |                                           |
|-------------------------------------------------|-------------------------------------------|
| Measurement Equipment                           | Data Element                              |
| <b>Extraction Well Induced Vacuum and Flow</b>  |                                           |
| Dwyer Magnehelic Gauges                         | Extraction Well Vacuum                    |
| Dwyer Averaging Pitot Tubes / Magnehelic Gauges | Extraction Well Vapor Flow                |
| <b>Well Vapor Samples</b>                       |                                           |
| V-1 Vacuum Box                                  | Extraction Well Non-Diluted Vapor Samples |
| HORIBA® Analyzer                                | Extraction Well Vapor TPH Concentration   |
| Lumidor MicroMax Pro O <sub>2</sub> Monitor     | Extraction Well Vapor Oxygen Content      |
| <b>LNAPL Thickness (if present)</b>             |                                           |
| Solinst Interface Probes Model 122              | Depth to NAPL and Depth to Groundwater    |
| <b>Atmospheric Conditions</b>                   |                                           |
| Testo Model 511                                 | Relative and Absolute Barometric Pressure |

The vacuum extraction portion of the AcuVac System consists of a vacuum pump driven by an internal combustion (IC) engine. The vacuum pump was connected to the extraction well, and the vacuum created on the extraction well caused light hydrocarbons in the soil and on the groundwater to volatilize and flow through a moisture knockout tank to the vacuum pump and IC engine where they were burned as part of the normal combustion process. Propane was used as auxiliary fuel to help power the engine if the well vapors did not provide the required energy.

AcuVac utilized a HORIBA® Analyzer to test the TPH concentrations contained in the extraction well vapors. A non-diluted vapor sample was obtained from the AcuVac well manifold. The non-diluted vapor sample was then processed by the HORIBA® to determine the TPH content. Well vapor samples were obtained throughout the test to calculate the TPH vapors burned as IC engine fuel. The manifold is designed to enable all of the induced well vacuum to be applied to the entire available well screen to ensure a representative vapor sample.

The AcuVac internal combustion engine is fully loaded for the maximum power necessary to achieve and maintain high induced vacuums and/or high well vapor flows required to maximize the vacuum radius of influence.

Emissions from the engine were passed through two of three catalytic converters to ensure maximum destruction of removed hydrocarbon vapors. The engine's fuel-to-air ratio was adjusted to maintain efficient combustion. Because the engine is the power source for all equipment, all systems stop when the engine stops, thus eliminating any uncontrolled release of hydrocarbons. Since the AcuVac System is held entirely under vacuum, any leaks in the seals or connections are leaked into the AcuVac System and not emitted into the atmosphere. The engine is automatically shut down by vacuum loss, low oil pressure, over speed, or overheating.

## **SVE QUICK TEST PROCEDURES**

- Gauge the extraction well for depth to NAPL and depth to groundwater and record static data.
- Calculate the hydro-equivalent of the static groundwater level.
- Record all baseline data.
- Install vacuum manifold and hose.
- Connect the AcuVac System to the extraction well and then apply vacuum. Record the well vacuum and well flow, all system data (including fuel flow of propane), ambient temperature, and barometric pressure.
- Collect non-diluted influent vapor (well gas) samples to provide on-site HORIBA® Analyzer and Lumidor analytical data consisting of TPH ppmv, CO<sub>2</sub>%, CO%, and O<sub>2</sub>% every 15 minutes during the Step Test.
- Provide variable rates of induced well vacuum and well vapor flow over the test period.

## **DISCUSSION OF TEST RESULTS**

Immediately prior to Test #1A, all observation wells were gauged with a manometer to record the baseline data. All wells recorded zero vacuum.

**Test #1A** - was a 1.25 hour test performed on well MW-1. The initial well vacuum was 20 In H<sub>2</sub>O, increasing to 30 In H<sub>2</sub>O at test hour 0.5, and to 40 in H<sub>2</sub>O at test hour 1.0. The well vapor flow ranged from 2.62 scfm to 2.85 scfm. The observation wells did not respond to the extraction well induced vacuum to an extent to be considered within the 3% or 1% SVE radius of influence.

**Test #1B** - was a 1.75 hour test performed on well SVE-1. The initial well vacuum was 30 In H<sub>2</sub>O, increasing to 40 In H<sub>2</sub>O at test hour 0.5, and to 50 In H<sub>2</sub>O at test hour 1.0. The well vapor flow ranged from 9.75 scfm to 20.43 scfm. The well vapors in well SVE-1 contained the highest level of TPH vapor concentration of all wells tested with a maximum volume of 77,850 ppmv and an average volume 77,635 ppmv. Observation wells MW-1 (7.0 ft), SVE-2 (24.5 ft), and MW-5 (33.0 ft) responded to the extraction well induced vacuum to an extent to be considered within the 3% or 1% SVE radius of influence.

**Test #1C** - was a 1.50 hour test performed on well SVE-2. The initial well vacuum was 30 In H<sub>2</sub>O, increasing to 40 In H<sub>2</sub>O at test hour 0.5 and to 50 in H<sub>2</sub>O at test hour 1.0. The well vapor flow ranged from 13.51 scfm to 18.72 scfm. The well vapors from well SVE-2 contained high TPH vapor concentrations with a maximum reading of 66,260 ppmv and an average of 64,743 ppmv. With the exception of well SVE-1 (24.5 ft), the observation wells did not respond to the extraction well induced vacuum to an extent to be considered within the 3% or 1% SVE radius of influence.

**Test #1D** - was a 2.25 hour test performed on well SVE-3. The initial well vacuum was 10 In H<sub>2</sub>O, increasing to 20 In H<sub>2</sub>O at test hour 0.5, increasing to 30 in H<sub>2</sub>O at test hour 1.0, increasing to 40 in H<sub>2</sub>O at test hour 1.5 and increasing to 50 in H<sub>2</sub>O at test hour 2.0. The well vapor flow ranged from 9.61 scfm to 26.97 scfm. The observation wells did not respond to the extraction well induced vacuum to an extent to be considered within the 3% or 1% SVE radius of influence.

#### INFORMATION INCLUDED WITH REPORT

- Table #1- Summary Data for all wells.
- Table #2- Operating Data- MW-1.
- Table #3- Operating Data- SVE-1.
- Graph 1A- Vacuum Influence of Well SVE-1 on the Observation Wells
- Graph 1B- Percentage of Vacuum Influence of Well SVE-1 on the Observation Wells.
- Table #4- Operating Data- SVE-2.
- Table #5- Operating Data- SVE-3.

After you have reviewed the report and if you have any questions, please contact me. We appreciate you selecting AcuVac to provide this service.

Sincerely,  
ACUVAC REMEDIATION, LLC



Paul D. Faucher  
Vice President, Operations

**TABLE #1  
SVE STEP TESTS  
SUMMARY DATA**

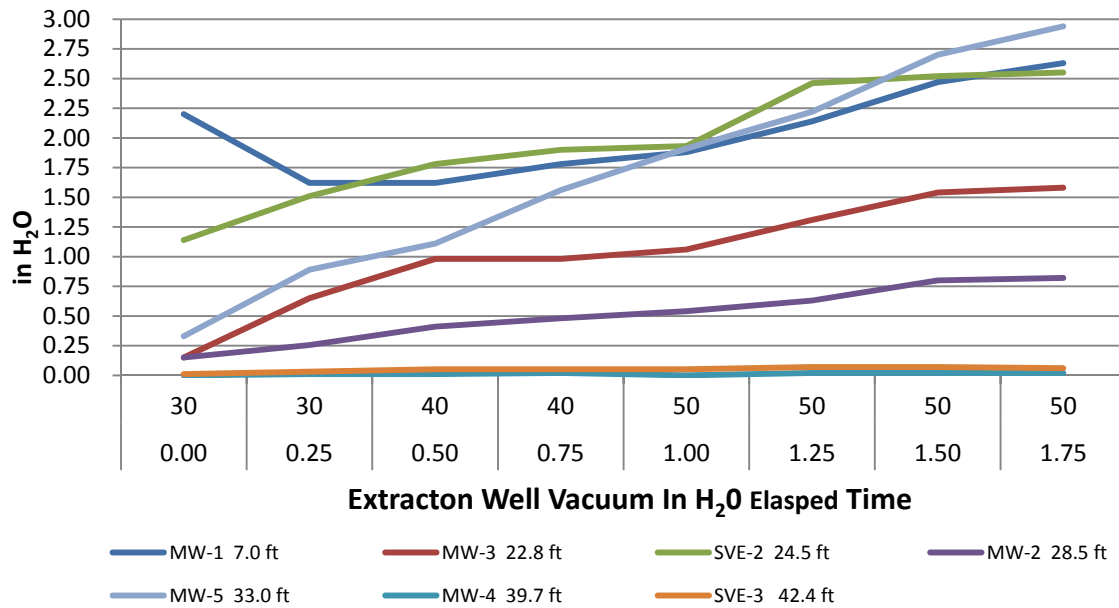
| Step Test Number                       |                     | #1A         | #1B         | #1C         | #1D         |
|----------------------------------------|---------------------|-------------|-------------|-------------|-------------|
| Well Number                            |                     | MW- 1       | SVE-1       | SVE-2       | SVE-3       |
| Test Duration                          | hours               | 1.25        | 1.75        | 1.50        | 2.25        |
| <b>Well Data</b>                       |                     |             |             |             |             |
| TD                                     | ft BTOC             | 53.20       | 30.00       | 25.00       | 25.00       |
| Well Size                              | inches              | 4.0         | 4.0         | 4.0         | 4.0         |
| Screen Interval                        | ft BTOC             | 38.2 - 53.2 | 20.0 - 30.0 | 15.0 - 25.0 | 15.0 - 25.0 |
| Site Elevation                         | ft                  | 7,259       | 7,259       | 7,259       | 7,259       |
| <b>LNAPL Data</b>                      |                     |             |             |             |             |
| <b>Start of Test</b>                   |                     |             |             |             |             |
| Depth to Groundwater                   | ft BTOC             | 41.13       | 29.83       | 24.85       | Dry         |
| Depth to NAPL                          | ft BTOC             | -           | -           | -           | -           |
| LNAPL                                  | ft                  | -           | -           | -           | -           |
| Hydro Equivalent                       | ft                  | 41.13       | 29.83       | 24.85       | -           |
| <b>End of Test</b>                     |                     |             |             |             |             |
| Depth to Groundwater                   | ft BTOC             | ND          | ND          | ND          | ND          |
| Depth to LNAPL                         | ft BTOC             | 0.00        | 0.00        | 0.00        | 0.00        |
| LNAPL                                  | ft                  | 0.00        | 0.00        | 0.00        | 0.00        |
| Hydro Equivalent                       | ft                  | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>Well Vac and Well Vapor Flow</b>    |                     |             |             |             |             |
| Max Extraction Well Vacuum             | In H <sub>2</sub> O | 40.00       | 50.00       | 50.00       | 50.00       |
| Avg Extraction Well Vacuum             | In H <sub>2</sub> O | 30.00       | 42.50       | 41.43       | 30.00       |
| Min Extraction Well Vacuum             | In H <sub>2</sub> O | 20.00       | 30.00       | 30.00       | 10.00       |
| Max Extraction Well Vapor Flow         | scfm                | 3.35        | 20.43       | 18.72       | 27.48       |
| Avg Extraction Well Vapor Flow         | scfm                | 2.85        | 17.35       | 16.39       | 18.84       |
| Min Extraction Well Vapor Flow         | scfm                | 2.57        | 9.75        | 13.51       | 9.61        |
| <b>Vapor Data</b>                      |                     |             |             |             |             |
| Maximum TPH                            | ppmv                | 13,280      | 77,850      | 66,260      | 3,760       |
| Average TPH                            | ppmv                | 10,880      | 74,635      | 64,743      | 3,462       |
| Minimum TPH                            | ppmv                | 8,480       | 70,070      | 63,050      | 3,200       |
| Average CO <sub>2</sub>                | %                   | 1.87        | 9.78        | 7.16        | 2.32        |
| Average CO                             | %                   | 0.03        | 0.42        | 0.35        | 0.01        |
| Average O <sub>2</sub>                 | %                   | 19.3        | 11.4        | 17.1        | 19.3        |
| Average H <sub>2</sub> S               | ppm                 | 0.0         | 0.0         | 0.0         | 0.0         |
| <b>Groundwater Upwelling</b>           |                     |             |             |             |             |
| Data Logger Position                   | ft BTOC             | 48.25       | 30.00       | 24.00       | 24.00       |
| Average Water Column Above Data Logger | ft BTOC             | 5.14        | 0.45        | 0.00        | 0.00        |
| Average Groundwater Upwelling          | ft                  | 1.02        | (0.10)      | 0.00        | 0.00        |
| <b>Available Well Screen</b>           |                     |             |             |             |             |
| Depth to Groundwater                   | ft BTOC             | 40.12       | 29.93       | -           | -           |
| Top of Well Screen                     | ft BTOC             | 35.20       | 20.00       | 15.00       | 15.00       |
| Available/(Occluded) Well Screen       | ft                  | 4.92        | 9.93        | 15.00       | 15.00       |

| <b>TABLE #2</b><br><b>SVE STEP TEST #1A</b><br><b>EXTRACTION WELL MW-1</b> |                     |       |       |       |       |       |        |        |        |
|----------------------------------------------------------------------------|---------------------|-------|-------|-------|-------|-------|--------|--------|--------|
| TIME                                                                       |                     | 9:00  | 9:15  | 9:30  | 9:45  | 10:00 | 10:15  |        |        |
| TEST HOUR                                                                  |                     | 0:00  | 0:25  | 0:50  | 0:75  | 1:00  | 1:25   | AVG    | MAX    |
| <b>EXTRACTION WELL MW-1</b>                                                |                     |       |       |       |       |       |        |        |        |
| Extraction Well Vacuum                                                     | In H <sub>2</sub> O | 20.00 | 20.00 | 30.00 | 30.00 | 40.00 | 40.00  | 30.00  | 40.00  |
| Well Flow                                                                  | scfm                | 2.62  | 2.62  | 2.58  | 2.57  | 3.35  | 3.35   | 2.85   | 3.35   |
| <b>VAPOR CONCENTRATIONS</b>                                                |                     |       |       |       |       |       |        |        |        |
| TPH                                                                        | ppmv                | -     | -     | 8,480 | -     | -     | 13,280 | 10,880 | 13,280 |
| CO <sub>2</sub>                                                            | %                   | -     | -     | 1.12  | -     | -     | 2.62   | 1.87   | 2.62   |
| CO                                                                         | %                   | -     | -     | 0.02  | -     | -     | 0.03   | 0.03   | 0.03   |
| O <sub>2</sub>                                                             | %                   | -     | -     | 19.8  | -     | -     | 18.7   | 19.3   | 19.8   |
| H <sub>2</sub> S                                                           | ppm                 | -     | -     | 0.0   | -     | -     | 0.0    | 0.0    | 0.0    |
| <b>GROUNDWATER UPWELLING</b>                                               |                     |       |       |       |       |       |        |        |        |
| Data Logger Position                                                       | ft                  | 48.25 | 48.25 | 48.25 | 48.25 | 48.25 | 48.25  | 48.25  | 48.25  |
| Water Column Above Data Logger                                             | ft                  | 4.12  | 4.82  | 4.93  | 5.29  | 5.61  | 6.04   | 5.14   | 6.04   |
| Groundwater Upwelling                                                      | ft                  | 0.00  | 0.70  | 0.81  | 1.17  | 1.49  | 1.92   | 1.02   | 1.92   |
| <b>AVAILABLE/OCCLUDED SCREEN</b>                                           |                     |       |       |       |       |       |        |        |        |
| Depth to Groundwater- BTOC                                                 | ft                  | 41.13 | 40.43 | 40.32 | 39.96 | 39.64 | 39.21  | 40.12  | 41.13  |
| Top of Well Screen                                                         | ft                  | 35.20 | 35.20 | 35.20 | 35.20 | 35.20 | 35.20  | 35.20  | 35.20  |
| Available/(Occluded) Well Screen                                           | ft                  | 5.93  | 5.23  | 5.12  | 4.76  | 4.44  | 4.01   | 4.92   | 5.93   |
| <b>OBSERVED OW VACUUM(PRESSURE)</b>                                        |                     |       |       |       |       |       |        |        |        |
| SVE-1 - 7.0 ft                                                             | In H <sub>2</sub> O | 0.00  | 0.01  | 0.01  | 0.03  | 0.06  | 0.07   | 0.03   | 0.07   |
| SVE-2 - 27.1 ft                                                            | In H <sub>2</sub> O | 0.00  | 0.00  | 0.01  | 0.01  | 0.02  | 0.03   | 0.01   | 0.03   |
| MW-2 - 29.1 ft                                                             | In H <sub>2</sub> O | 0.00  | 0.02  | 0.05  | 0.06  | 0.13  | 0.11   | 0.06   | 0.13   |
| MW-3 - 29.7 ft                                                             | In H <sub>2</sub> O | 0.00  | 0.03  | 0.06  | 0.05  | 0.09  | 0.09   | 0.05   | 0.09   |
| MW-5 - 30.4 ft                                                             | In H <sub>2</sub> O | 0.00  | 0.10  | 0.29  | 0.20  | 0.27  | 0.35   | 0.20   | 0.35   |
| MW-4 - 33.3 ft                                                             | In H <sub>2</sub> O | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.01   | 0.00   | 0.01   |
| SVE-3 - 44.7 ft                                                            | In H <sub>2</sub> O | 0.00  | 0.00  | 0.00  | 0.00  | 0.02  | 0.00   | 0.00   | 0.02   |
| <b>OBSERVED OW VACUUM(PRESSURE)</b>                                        |                     |       |       |       |       |       |        |        |        |
| SVE-1 - 7.0 ft                                                             | %                   | 0.00  | 0.05  | 0.03  | 0.10  | 0.15  | 0.18   | 0.08   | 0.18   |
| SVE-2 - 27.1 ft                                                            | %                   | 0.00  | 0.00  | 0.03  | 0.03  | 0.05  | 0.08   | 0.03   | 0.08   |
| MW-2 - 29.1 ft                                                             | %                   | 0.00  | 0.10  | 0.17  | 0.20  | 0.33  | 0.28   | 0.18   | 0.33   |
| MW-3 - 29.7 ft                                                             | %                   | 0.00  | 0.15  | 0.20  | 0.17  | 0.23  | 0.23   | 0.16   | 0.23   |
| MW-5 - 30.4 ft                                                             | %                   | 0.00  | 0.50  | 0.97  | 0.67  | 0.68  | 0.88   | 0.61   | 0.97   |
| MW-4 - 33.3 ft                                                             | %                   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.03   | 0.00   | 0.03   |
| SVE-3 - 44.7 ft                                                            | %                   | 0.00  | 0.00  | 0.00  | 0.00  | 0.05  | 0.00   | 0.01   | 0.05   |

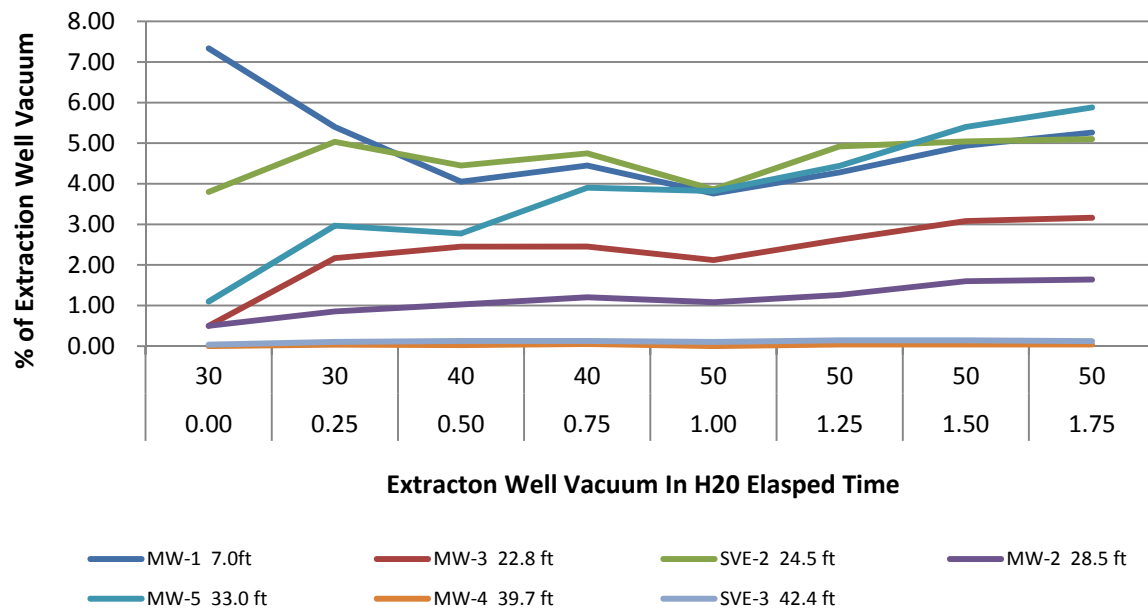
**TABLE #3**  
**SVE STEP TEST #1B**  
**EXTRACTION WELL SVE-1**

| Time                                |                     | 10:15 | 10:30  | 10:45  | 11:00  | 11:15  | 11:30  | 11:45  | 12:00  |        |        |
|-------------------------------------|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Test Hour                           |                     | 0.00  | 0.25   | 0.50   | 0.75   | 1.00   | 1.25   | 1.50   | 1.75   | AVG    | MAX    |
| <b>EXTRACTION DATA</b>              |                     |       |        |        |        |        |        |        |        |        |        |
| Extraction Well Vacuum              | In H <sub>2</sub> O | 30.00 | 30.00  | 40.00  | 40.00  | 50.00  | 50.00  | 50.00  | 50.00  | 42.50  | 50.00  |
| Well Flow SCFM                      | scfm                | 9.75  | 13.99  | 16.65  | 16.65  | 20.43  | 20.43  | 20.43  | 20.43  | 17.35  | 20.43  |
| <b>VAPOR CONCENTRATIONS</b>         |                     |       |        |        |        |        |        |        |        |        |        |
| TPH                                 | ppmv                | -     | 74,150 | -      | 76,470 | -      | 70,070 | -      | 77,850 | 74,635 | 77,850 |
| CO <sub>2</sub>                     | %                   | -     | 9.30   | -      | 9.42   | -      | 11.28  | -      | 9.10   | 9.78   | 11.28  |
| CO                                  | %                   | -     | 0.39   | -      | 0.38   | -      | 0.49   | -      | 0.41   | 0.42   | 0.49   |
| O <sub>2</sub>                      | %                   | -     | 7.8    | -      | 12.7   | -      | 13.6   | -      | 11.6   | 11.4   | 13.6   |
| H <sub>2</sub> S                    | ppm                 | -     | 0.0    | -      | 0.0    | -      | 0.0    | -      | 0.0    | 0.0    | 0.0    |
| <b>GROUNDWATER UPWELLING</b>        |                     |       |        |        |        |        |        |        |        |        |        |
| Data Logger Position                | ft                  | 30.00 | 30.00  | 30.00  | 30.00  | 30.00  | 30.00  | 30.00  | 30.00  | 30.00  | 30.00  |
| Water Column Above Data Logger      | ft                  | 0.55  | 0.52   | 0.49   | 0.49   | 0.45   | 0.36   | 0.35   | 0.37   | 0.45   | 0.55   |
| Groundwater Upwelling               | ft                  | 0.00  | (0.03) | (0.06) | (0.06) | (0.10) | (0.19) | (0.20) | (0.18) | (0.10) | 0.00   |
| <b>AVAILABLE/OCCLUDED SCREEN</b>    |                     |       |        |        |        |        |        |        |        |        |        |
| Depth to Groundwater- BTOC          | ft                  | 29.83 | 29.86  | 29.89  | 29.89  | 29.93  | 30.02  | 30.03  | 30.01  | 29.93  | 30.03  |
| Top of Well Screen                  | ft                  | 20.00 | 20.00  | 20.00  | 20.00  | 20.00  | 20.00  | 20.00  | 20.00  | 20.00  | 20.00  |
| Available/(Occluded) Well Screen    | ft                  | 9.83  | 9.86   | 9.89   | 9.89   | 9.93   | 10.02  | 10.03  | 10.01  | 9.93   | 10.03  |
| <b>OBSERVED OW VACUUM(PRESSURE)</b> |                     |       |        |        |        |        |        |        |        |        |        |
| MW-1 - 7.0 ft                       | In H <sub>2</sub> O | 2.20  | 1.62   | 1.62   | 1.78   | 1.88   | 2.14   | 2.47   | 2.63   | 2.04   | 2.63   |
| MW-3 - 22.8 ft                      | In H <sub>2</sub> O | 0.15  | 0.65   | 0.98   | 0.98   | 1.06   | 1.31   | 1.54   | 1.58   | 1.03   | 1.58   |
| SVE-2 - 24.5 ft                     | In H <sub>2</sub> O | 1.14  | 1.51   | 1.78   | 1.90   | 1.93   | 2.46   | 2.52   | 2.55   | 1.97   | 2.55   |
| MW-2 - 28.5 ft                      | In H <sub>2</sub> O | 0.15  | 0.26   | 0.41   | 0.48   | 0.54   | 0.63   | 0.80   | 0.82   | 0.51   | 0.82   |
| MW-5 - 33.0 ft                      | In H <sub>2</sub> O | 0.33  | 0.89   | 1.11   | 1.56   | 1.91   | 2.22   | 2.70   | 2.94   | 1.71   | 2.94   |
| MW-4 - 39.7 ft                      | In H <sub>2</sub> O | 0.00  | 0.01   | 0.01   | 0.02   | 0.00   | 0.02   | 0.02   | 0.02   | 0.01   | 0.02   |
| SVE-3 - 42.4 ft                     | In H <sub>2</sub> O | 0.01  | 0.03   | 0.05   | 0.05   | 0.05   | 0.07   | 0.07   | 0.06   | 0.05   | 0.07   |
| <b>OBSERVED OW VACUUM(PRESSURE)</b> |                     |       |        |        |        |        |        |        |        |        |        |
| MW-1 - 7.0 ft                       | %                   | 7.33  | 5.40   | 4.05   | 4.45   | 3.76   | 4.28   | 4.94   | 5.26   | 4.93   | 7.33   |
| MW-3 - 22.8 ft                      | %                   | 0.50  | 2.17   | 2.45   | 2.45   | 2.12   | 2.62   | 3.08   | 3.16   | 2.32   | 3.16   |
| SVE-2 - 24.5 ft                     | %                   | 3.80  | 5.03   | 4.45   | 4.75   | 3.86   | 4.92   | 5.04   | 5.10   | 4.62   | 5.10   |
| MW-2 - 28.5 ft                      | %                   | 0.50  | 0.85   | 1.03   | 1.20   | 1.08   | 1.26   | 1.60   | 1.64   | 1.14   | 1.64   |
| MW-5 - 33.0 ft                      | %                   | 1.10  | 2.97   | 2.78   | 3.90   | 3.82   | 4.44   | 5.40   | 5.88   | 3.79   | 5.88   |
| MW-4 - 39.7 ft                      | %                   | 0.00  | 0.03   | 0.03   | 0.05   | 0.00   | 0.04   | 0.04   | 0.04   | 0.03   | 0.05   |
| SVE-3 - 42.4 ft                     | %                   | 0.03  | 0.10   | 0.13   | 0.13   | 0.10   | 0.14   | 0.14   | 0.12   | 0.11   | 0.14   |

**Graph 1A**  
**Observation Well Vacuums Influence - In H<sub>2</sub>O**  
**Extraction Well SVE-1**



**Graph 1B**  
**Observation Well Vacuums Influence - %**  
**Extraction Well SVE-1**



| <b>TABLE #4</b><br><b>SVE STEP TEST #1C</b><br><b>EXTRACTION WELL SVE-2</b> |                     |       |        |       |        |       |        |       |        |        |
|-----------------------------------------------------------------------------|---------------------|-------|--------|-------|--------|-------|--------|-------|--------|--------|
| TIME                                                                        |                     | 12:30 | 12:45  | 13:00 | 13:15  | 13:30 | 13:45  | 14:00 |        |        |
| TEST HOUR                                                                   |                     | 0:00  | 0:25   | 0:50  | 0:75   | 1:00  | 1:25   | 1:50  | AVG    | MAX    |
| <b>EXTRACTION DATA</b>                                                      |                     |       |        |       |        |       |        |       |        |        |
| Extraction Well Vacuum                                                      | In H <sub>2</sub> O | 30.00 | 30.00  | 40.00 | 40.00  | 50.00 | 50.00  | 50.00 | 41.43  | 50.00  |
| Well Flow SCFM                                                              | scfm                | 13.51 | 13.51  | 15.76 | 15.76  | 18.72 | 18.72  | 18.72 | 16.39  | 18.72  |
| <b>VAPOR CONCENTRATIONS</b>                                                 |                     |       |        |       |        |       |        |       |        |        |
| TPH                                                                         | ppmv                | -     | 64,920 | -     | 63,050 | -     | 66,260 | -     | 64,743 | 66,260 |
| CO <sub>2</sub>                                                             | %                   | -     | 6.82   | -     | 8.04   | -     | 6.62   | -     | 7.16   | 8.04   |
| CO                                                                          | %                   | -     | 0.35   | -     | 0.38   | -     | 0.33   | -     | 0.35   | 0.38   |
| O <sub>2</sub>                                                              | %                   | -     | 16.3   | -     | 16.7   | -     | 18.3   | -     | 17.1   | 18.3   |
| H <sub>2</sub> S                                                            | ppm                 | -     | 0.0    | -     | 0.0    | -     | 0.0    | -     | 0.0    | 0.0    |
| <b>GROUNDWATER UPWELLING</b>                                                |                     |       |        |       |        |       |        |       |        |        |
| Data Logger Position                                                        | ft                  | 24.00 | 24.00  | 24.00 | 24.00  | 24.00 | 24.00  | 24.00 | 24.00  | 24.00  |
| Water Column Above Data Logger                                              | ft                  | 0.00  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | 0.00   |
| Groundwater Upwelling                                                       | ft                  | -     | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | 0.00   |
| <b>AVAILABLE \ OCCLUDED SCREEN</b>                                          |                     |       |        |       |        |       |        |       |        |        |
| Depth to Groundwater- BTOC                                                  | ft                  | -     | -      | -     | -      | -     | -      | -     | -      | -      |
| Top of Well Screen                                                          | ft                  | 15.00 | 15.00  | 15.00 | 15.00  | 15.00 | 15.00  | 15.00 | 15.00  | 15.00  |
| Available/(Occluded) Well Screen                                            | ft                  | 15.00 | 15.00  | 15.00 | 15.00  | 15.00 | 15.00  | 15.00 | 15.00  | 15.00  |
| <b>OBSERVED OW VACUUM \ (PRESSURE)</b>                                      |                     |       |        |       |        |       |        |       |        |        |
| MW-2 - 6.5 ft                                                               | In H <sub>2</sub> O | 0.61  | 0.37   | 0.24  | 0.23   | 0.20  | 0.23   | 0.27  | 0.31   | 0.61   |
| SVE-3 - 17.5 ft                                                             | In H <sub>2</sub> O | 0.14  | 0.07   | 0.07  | 0.06   | 0.10  | 0.09   | 0.10  | 0.09   | 0.14   |
| SVE-1 - 24.5 ft                                                             | In H <sub>2</sub> O | 1.91  | 1.40   | 1.24  | 1.41   | 1.40  | 1.73   | 1.70  | 1.54   | 1.91   |
| MW-1 - 27.1 ft                                                              | In H <sub>2</sub> O | 1.71  | 1.09   | 0.52  | 0.28   | 0.15  | 0.13   | 0.07  | 0.56   | 1.71   |
| MW-3 - 31.4 ft                                                              | In H <sub>2</sub> O | 0.74  | 0.41   | 0.20  | 0.27   | 0.10  | 0.11   | 0.09  | 0.27   | 0.74   |
| MW-4 - 48.8 ft                                                              | In H <sub>2</sub> O | 0.03  | 0.07   | 0.01  | 0.00   | 0.00  | 0.00   | 0.00  | 0.00   | 0.07   |
| MW-7 - 52.7 ft                                                              | In H <sub>2</sub> O | 0.24  | 0.22   | 0.13  | 0.10   | 0.09  | 0.11   | 0.13  | 0.15   | 0.24   |
| <b>OBSERVED OW VACUUM \ (PRESSURE)</b>                                      |                     |       |        |       |        |       |        |       |        |        |
| MW-2 - 6.5 ft                                                               | %                   | 2.03  | 1.23   | 0.60  | 0.58   | 0.40  | 0.46   | 0.54  | 0.83   | 2.03   |
| SVE-3 - 17.5 ft                                                             | %                   | 0.47  | 0.23   | 0.18  | 0.15   | 0.20  | 0.18   | 0.20  | 0.23   | 0.47   |
| SVE-1 - 24.5 ft                                                             | %                   | 6.37  | 4.67   | 3.10  | 3.53   | 2.80  | 3.46   | 3.40  | 3.90   | 6.37   |
| MW-1 - 27.1 ft                                                              | %                   | 5.70  | 3.63   | 1.30  | 0.70   | 0.30  | 0.26   | 0.14  | 1.72   | 5.70   |
| MW-3 - 31.4 ft                                                              | %                   | 2.47  | 1.37   | 0.50  | 0.68   | 0.20  | 0.22   | 0.18  | 0.80   | 2.47   |
| MW-4 - 48.8 ft                                                              | %                   | 0.10  | 0.23   | 0.03  | 0.00   | 0.00  | 0.00   | 0.00  | 0.05   | 0.23   |
| MW-7 - 52.7 ft                                                              | %                   | 0.80  | 0.73   | 0.33  | 0.25   | 0.18  | 0.22   | 0.26  | 0.40   | 0.80   |

| TABLE #5                         |                     |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SVE STEP TEST #1D                |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| EXTRACTION WELL SVE-3            |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| TIME                             |                     | 14:15 | 14:30 | 14:45 | 15:00 | 15:15 | 15:30 | 15:45 | 16:00 | 16:15 | 16:30 | AVG   | MAX   |
| TEST HOUR                        |                     | 0:00  | 0:25  | 0:50  | 0:75  | 1:00  | 1:25  | 1:50  | 1:75  | 2:00  | 2:25  |       |       |
| EXTRACTION DATA                  |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| Extraction Well Vacuum           | In H <sub>2</sub> O | 10.00 | 10.00 | 20.00 | 20.00 | 30.00 | 30.00 | 40.00 | 40.00 | 50.00 | 50.00 | 30.00 | 50.00 |
| Well Flow SCFM                   | scfm                | 9.61  | 9.61  | 15.46 | 15.46 | 17.56 | 17.63 | 21.65 | 27.48 | 26.97 | 26.97 | 18.84 | 27.48 |
| VAPOR CONCENTRATIONS             |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| TPH                              | ppmv                | -     | 3,760 | -     | 3,550 | -     | 3,320 | -     | 3,480 | -     | 3,200 | 3,462 | 3,760 |
| CO <sub>2</sub>                  | %                   | -     | 2.12  | -     | 2.30  | -     | 2.34  | -     | 2.52  | -     | 2.34  | 2.32  | 2.52  |
| CO                               | %                   | -     | 0.01  | -     | 0.01  | -     | 0.01  | -     | 0.01  | -     | 0.01  | 0.01  | 0.01  |
| O <sub>2</sub>                   | %                   | -     | 19.3  | -     | 18.4  | -     | 19.7  | -     | 19.5  | -     | 19.5  | 19.3  | 19.7  |
| H <sub>2</sub> S                 | ppm                 | -     | 0.0   | -     | 0.0   | -     | 0.0   | -     | 0.0   | -     | 0.0   | 0.0   | 0.0   |
| GROUNDWATER UPWELLING            |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| Data Logger Position             | ft                  | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| Water Column Above Data Logger   | ft                  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| Groundwater Upwelling            | ft                  | -     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  |
| AVAILABLE \ OCCLUDED SCREEN      |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| Depth to Groundwater- BTOC       | ft                  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Top of Well Screen               | ft                  | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 |
| Available/(Occluded) Well Screen | ft                  | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 |
| OBSERVED OW VACUUM \ ( PRESSURE) |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| MW-2 - 17.3 ft                   | In H <sub>2</sub> O | 0.06  | 0.02  | 0.03  | 0.11  | 0.16  | 0.19  | 0.27  | 0.32  | 0.37  | 0.15  | 0.17  | 0.37  |
| MW-7 - 35.7 ft                   | In H <sub>2</sub> O | 0.01  | 0.00  | 0.02  | 0.11  | 0.14  | 0.24  | 0.27  | 0.32  | 0.42  | 0.46  | 0.20  | 0.46  |
| MW-3 - 42.1 ft                   | In H <sub>2</sub> O | 0.03  | 0.00  | 0.00  | 0.00  | 0.00  | 0.03  | 0.13  | 0.09  | 0.11  | 0.13  | 0.05  | 0.13  |
| SVE-1 - 42.4 ft                  | In H <sub>2</sub> O | 0.01  | 0.00  | 0.00  | 0.00  | 0.00  | 0.01  | 0.06  | 0.03  | 0.05  | 0.05  | 0.02  | 0.06  |
| MW-1 - 44.7 ft                   | In H <sub>2</sub> O | 0.03  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.05  | 0.00  | 0.00  | 0.02  | 0.01  | 0.05  |
| SVE-2 - 52.7 ft                  | In H <sub>2</sub> O | 0.06  | 0.05  | 0.05  | 0.06  | 0.10  | 0.14  | 0.18  | 0.18  | 0.20  | 0.23  | 0.13  | 0.23  |
| MW-4 - 64.0 ft                   | In H <sub>2</sub> O | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.02  | 0.03  | 0.00  | 0.00  | 0.00  | 0.01  | 0.03  |
| OBSERVED OW VACUUM \ (PRESSURE)  |                     |       |       |       |       |       |       |       |       |       |       |       |       |
| MW-2 - 17.3 ft                   | %                   | 0.60  | 0.20  | 0.15  | 0.55  | 0.53  | 0.63  | 0.68  | 0.80  | 0.74  | 0.30  | 0.52  | 0.80  |
| MW-7 - 35.7 ft                   | %                   | 0.10  | 0.00  | 0.10  | 0.55  | 0.47  | 0.80  | 0.68  | 0.80  | 0.84  | 0.92  | 0.53  | 0.92  |
| MW-3 - 42.1 ft                   | %                   | 0.30  | 0.00  | 0.00  | 0.00  | 0.00  | 0.10  | 0.33  | 0.23  | 0.22  | 0.26  | 0.14  | 0.33  |
| SVE-1 - 42.4 ft                  | %                   | 0.10  | 0.00  | 0.00  | 0.00  | 0.00  | 0.03  | 0.15  | 0.08  | 0.10  | 0.10  | 0.06  | 0.15  |
| MW-1 - 44.7 ft                   | %                   | 0.30  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.13  | 0.00  | 0.00  | 0.04  | 0.05  | 0.30  |
| SVE-2 - 52.7 ft                  | %                   | 0.60  | 0.50  | 0.25  | 0.30  | 0.33  | 0.47  | 0.45  | 0.45  | 0.40  | 0.46  | 0.42  | 0.60  |
| MW-4 - 64.0 ft                   | %                   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.07  | 0.08  | 0.00  | 0.00  | 0.00  | 0.01  | 0.08  |

Location: Lat L-40, Rio Arriba County, NM

Project Manager: Faucher / George

|                            |                                                                   |                   |          |       |       |       |       |       |
|----------------------------|-------------------------------------------------------------------|-------------------|----------|-------|-------|-------|-------|-------|
| Date<br><b>WELL</b>        | TD-50.2<br>Saturated SS. 2 → 50.2<br>MW-1                         |                   | Time     |       |       |       |       |       |
|                            |                                                                   |                   | Hr Meter |       |       |       |       |       |
|                            |                                                                   |                   |          |       |       |       |       |       |
| ENGINE / BLOWER            | Engine Speed                                                      | RPM               | 2000     | 2000  | 1900  | 1900  | 1900  | 1900  |
|                            | Oil Pressure                                                      | psi               | 50       | 50    | 50    | 50    | 50    | 50    |
|                            | Water Temp                                                        | °F                | 130      | 130   | 130   | 130   | 130   | 130   |
|                            | Alternator                                                        | Volts             | 13       | 13    | 13    | 13    | 13    | 13    |
|                            | Intake Vacuum                                                     | "Hg               | 18       | 18    | 18    | 18    | 18    | 18    |
|                            | Gas Flow Fuel/Propane                                             | cfh               | 120      | 120   | 110   | 110   | 100   | 100   |
| ATMOSPHERE<br>VACUUM / AIR | Extraction Well Vac.                                              | "H <sub>2</sub> O | 20       | 20    | 30    | 30    | 40    | 40    |
|                            | Extraction Well Flow                                              | scfm              | 2.62     | 2.62  | 2.58  | 2.57  | 3.35  | 3.35  |
|                            | Influent Vapor Temp.                                              | °F                | 30       | 30    | 30    | 34    | 38    | 38    |
|                            | Air Temp                                                          | °F                | 35       | 38    | 39    | 40    | 42    | 46    |
|                            | Barometric Pressure                                               | "Hg               | 29.48    | 29.48 | 29.49 | 29.49 | 29.50 | 29.50 |
| VAPOR / INFLUENT           | TPH                                                               | ppmv              | -        | -     | 8480  | -     | -     | 13280 |
|                            | CO <sub>2</sub>                                                   | %                 | -        | -     | 1.12  | -     | -     | 2.62  |
|                            | CO                                                                | %                 | -        | -     | .02   | -     | -     | .03   |
|                            | O <sub>2</sub>                                                    | %                 | -        | -     | 19.8  | -     | -     | 18.7  |
|                            | H <sub>2</sub> S                                                  | ppm               | -        | -     | 0     | -     | -     | 0     |
| Outer Wells                | MW-4                                                              | "H <sub>2</sub> O | 0.00     | 0.00  | 0.00  | 0.00  | 0.00  | .01   |
|                            | MW-5                                                              | "H <sub>2</sub> O | 0.00     | .10   | .29   | .20   | .27   | .35   |
|                            | MW-3                                                              | "H <sub>2</sub> O | 0.00     | .03   | .06   | .05   | .09   | .09   |
|                            | MW-2                                                              | "H <sub>2</sub> O | 0.00     | .02   | .05   | .06   | .13   | .11   |
|                            | SVE-2                                                             | "H <sub>2</sub> O | 0.00     | 0.00  | .01   | .01   | .02   | .03   |
|                            | SVE-3                                                             | "H <sub>2</sub> O | 0.00     | 0.00  | 0.00  | 0.00  | .02   | 0     |
| NOTES                      | SVE-1                                                             |                   | 0.00     | .01   | .01   | .03   | .06   | .07   |
|                            | OUTER WELL READINGS TAKEN IMMEDIATELY BEFORE INCREASE IN WELL VAC |                   |          |       |       |       |       |       |
|                            |                                                                   |                   |          |       |       |       |       |       |
|                            |                                                                   |                   |          |       |       |       |       |       |
|                            | DL                                                                | 4.12              | 4.19     | 4.82  | 4.93  | 5.29  | 5.61  | 6.04  |
|                            | UPWELLING                                                         |                   | .07      | .70   | .81   | 1.17  | 1.49  | 1.92  |
| EW                         | Extraction Well                                                   | DTNAPL            |          |       |       |       |       |       |
|                            | Extraction Well                                                   | DTGW              |          |       |       |       |       |       |

Location: Lat L-40, Rio Arriba County, NM

Project Manager: Faucher / George

|                            |                       |                   |       |       |       |       |       |        |      |
|----------------------------|-----------------------|-------------------|-------|-------|-------|-------|-------|--------|------|
| Date                       |                       | 10/20/18          |       |       |       |       |       |        |      |
| WELL                       |                       | Time              |       | 1015  | 1030  | 1045  | 1100  | 1115   | 1130 |
| SVE-1                      |                       | Hr Meter          |       | -     | -     | -     | -     | -      | -    |
| ENGINE / BLOWER            | Engine Speed          | RPM               | 2100  | 1900  | 1900  | 1900  | 2000  | 2000   |      |
|                            | Oil Pressure          | psi               | 50    | 50    | 50    | 50    | 50    | 50     |      |
|                            | Water Temp            | °F                | 130   | 130   | 130   | 135   | 135   | 135    |      |
|                            | Alternator            | Volts             | 13    | 13    | 13    | 13    | 13    | 13     |      |
|                            | Intake Vacuum         | "Hg               | 16    | 16    | 16    | 16    | 16    | 16     |      |
|                            | Gas Flow Fuel/Propane | cfh               | 65    | 60    | 45    | 40    | 0     | 0      |      |
| ATMOSPHERE<br>VACUUM / AIR | Extraction Well Vac.  | "H <sub>2</sub> O | 30    | 30    | 40    | 40    | 50    | 50     |      |
|                            | Extraction Well Flow  | scfm              | 9.75  | 13.99 | 16.65 | 16.65 | 20.43 | 20.43  |      |
|                            | Influent Vapor Temp.  | °F                | 44    | 44    | 44    | 44    | 44    | 44     |      |
|                            | Air Temp              | °F                | 46    | 48    | 50    | 52    | 52    | 53     |      |
|                            | Barometric Pressure   | "Hg               | 29.50 | 29.50 | 29.49 | 29.49 | 29.48 | 29.48  |      |
| VAPOR / INFLUENT           | TPH                   | ppmv              | -     | 74150 | -     | 76470 | -     | 70,870 |      |
|                            | CO <sub>2</sub>       | %                 | -     | 9.30  | -     | 9.42  | -     | 11.28  |      |
|                            | CO                    | %                 | -     | .39   | -     | .38   | -     | .49    |      |
|                            | O <sub>2</sub>        | %                 | -     | 7.8   | -     | 12.7  | -     | 13.6   |      |
|                            | H <sub>2</sub> S      | ppm               | -     | 0     | -     | 0     | -     | 0      |      |
| Outer Wells                | mw-4                  | "H <sub>2</sub> O | 0     | .01   | .01   | .02   | 0     | .02    |      |
|                            | mw-5                  | "H <sub>2</sub> O | .33   | .89   | 1.11  | 1.56  | 1.91  | 2.22   |      |
|                            | mw-3                  | "H <sub>2</sub> O | .15   | .65   | .98   | .98   | 1.06  | 1.31   |      |
|                            | mw-2                  | "H <sub>2</sub> O | .15   | .26   | .41   | .48   | .54   | .63    |      |
|                            | SVE-2                 | "H <sub>2</sub> O | 1.14  | 1.51  | 1.78  | 1.90  | 1.93  | 2.46   |      |
|                            | SVE-3                 | "H <sub>2</sub> O | .07   | .03   | .05   | .05   | .05   | .07    |      |
| NOTES                      | mw-1                  |                   | 2.20  | 1.62  | 1.62  | 1.78  | 1.88  | 2.14   |      |
|                            |                       |                   |       |       |       |       |       |        |      |
|                            |                       |                   |       |       |       |       |       |        |      |
|                            |                       |                   |       |       |       |       |       |        |      |
|                            |                       |                   |       |       |       |       |       |        |      |
|                            |                       |                   |       |       |       |       |       |        |      |
| EW                         | Extraction Well       | DTNAPL            |       |       |       |       |       |        |      |
|                            | Extraction Well       | DTGW              |       |       |       |       |       |        |      |

|                                                  |                       |                   |                                          |       |  |  |
|--------------------------------------------------|-----------------------|-------------------|------------------------------------------|-------|--|--|
| <b>Location: Lat L-40, Rio Arriba County, NM</b> |                       |                   | <b>Project Manager: Faucher / George</b> |       |  |  |
| Date                                             |                       | 10/20/13          |                                          |       |  |  |
| <b>WELL</b><br><br>SVE-1                         | Time                  | 1145              | 1200                                     |       |  |  |
|                                                  | Hr Meter              | -                 | -                                        |       |  |  |
| <b>ENGINE / BLOWER</b>                           | Engine Speed          | RPM               | 1900                                     | 1900  |  |  |
|                                                  | Oil Pressure          | psi               | 50                                       | 50    |  |  |
|                                                  | Water Temp            | °F                | 135                                      | 135   |  |  |
|                                                  | Alternator            | Volts             | 13                                       | 13    |  |  |
|                                                  | Intake Vacuum         | "Hg               | 16                                       | 16    |  |  |
|                                                  | Gas Flow Fuel/Propane | cfh               | 0                                        | 0     |  |  |
| <b>ATMOSPHERE<br/>VACUUM / AIR</b>               | Extraction Well Vac.  | "H <sub>2</sub> O | 50                                       | 50    |  |  |
|                                                  | Extraction Well Flow  | scfm              | 20.43                                    | 20.43 |  |  |
|                                                  | Influent Vapor Temp.  | °F                | 44                                       | 44    |  |  |
|                                                  | Air Temp              | °F                | 54                                       | 55    |  |  |
|                                                  | Barometric Pressure   | "Hg               | 29.48                                    | 29.48 |  |  |
| <b>VAPOR / INFLUENT</b>                          | TPH                   | ppmv              | -                                        | 77850 |  |  |
|                                                  | CO <sub>2</sub>       | %                 | -                                        | 9.16  |  |  |
|                                                  | CO                    | %                 | -                                        | .41   |  |  |
|                                                  | O <sub>2</sub>        | %                 | -                                        | 11.6  |  |  |
|                                                  | H <sub>2</sub> S      | ppm               | -                                        | 0     |  |  |
| <b>Outer Wells</b>                               | MW-4                  | "H <sub>2</sub> O | .02                                      | .02   |  |  |
|                                                  | MW-5                  | "H <sub>2</sub> O | 2.70                                     | 2.94  |  |  |
|                                                  | MW-3                  | "H <sub>2</sub> O | 1.54                                     | 1.58  |  |  |
|                                                  | MW-2                  | "H <sub>2</sub> O | .80                                      | .82   |  |  |
|                                                  | SVE-2                 | "H <sub>2</sub> O | 2.52                                     | 2.55  |  |  |
|                                                  | SVE-3                 | "H <sub>2</sub> O | .07                                      | .06   |  |  |
| <b>NOTES</b>                                     | MW-1                  |                   | 2.47                                     | 2.63  |  |  |
|                                                  |                       |                   |                                          |       |  |  |
|                                                  |                       |                   |                                          |       |  |  |
|                                                  |                       |                   |                                          |       |  |  |
|                                                  |                       |                   |                                          |       |  |  |
|                                                  |                       |                   |                                          |       |  |  |
| <b>DL HEAD</b><br><b>UPWELLING</b>               |                       |                   | .35                                      | .37   |  |  |
|                                                  |                       |                   | -                                        | -     |  |  |
| <b>EW</b>                                        | Extraction Well       | DTNAPL            |                                          |       |  |  |
|                                                  | Extraction Well       | DTGW              |                                          |       |  |  |

**Location: Lat L-40, Rio Arriba County, NM**
**Project Manager: Faucher / George**

|                                    |                       |                   |       |        |       |        |       |        |
|------------------------------------|-----------------------|-------------------|-------|--------|-------|--------|-------|--------|
| Date                               |                       | 10/20/18          |       |        |       |        |       |        |
| <b>WELL</b><br><br>SVE-2           | Time                  | 1230              | 1245  | 1300   | 1315  | 1330   | 1345  | 1400   |
|                                    | Hr Meter              |                   |       |        |       |        |       |        |
| <b>ENGINE / BLOWER</b>             | Engine Speed          | RPM               | 2000  | 2000   | 2000  | 1800   | 2000  | 2000   |
|                                    | Oil Pressure          | psi               | 50    | 50     | 50    | 50     | 50    | 50     |
|                                    | Water Temp            | °F                | 140   | 140    | 140   | 140    | 140   | 140    |
|                                    | Alternator            | Volts             | 13    | 13     | 13    | 13     | 13    | 13     |
|                                    | Intake Vacuum         | "Hg               | 16    | 16     | 16    | 16     | 16    | 16     |
|                                    | Gas Flow Fuel/Propane | cfh               | 50    | 45     | 0     | 0      | 0     | 0      |
| <b>ATMOSPHERE<br/>VACUUM / AIR</b> | Extraction Well Vac.  | "H <sub>2</sub> O | 30    | 30     | 40    | 40     | 50    | 50     |
|                                    | Extraction Well Flow  | scfm              | 13.51 | 13.51  | 15.76 | 15.76  | 18.72 | 18.72  |
|                                    | Influent Vapor Temp.  | °F                | 48    | 48     | 48    | 48     | 48    | 48     |
|                                    | Air Temp              | °F                | 56    | 57     | 58    | 58     | 59    | 59     |
|                                    | Barometric Pressure   | "Hg               | 29.47 | 29.45  | 29.44 | 29.43  | 29.43 | 29.43  |
| <b>VAPOR / INFLUENT</b>            | TPH                   | ppmv              | -     | 64,920 | -     | 63,050 | -     | 66,260 |
|                                    | CO <sub>2</sub>       | %                 | -     | 6.82   | -     | 8.04   | -     | 6.62   |
|                                    | CO                    | %                 | -     | .35    | -     | .38    | -     | .33    |
|                                    | O <sub>2</sub>        | %                 | -     | 16.3   | -     | 16.7   | -     | 18.3   |
|                                    | H <sub>2</sub> S      | ppm               | -     | 0      | -     | 0      | -     | 0      |
| <b>Outer Wells</b>                 | MW-4                  | "H <sub>2</sub> O | .03   | .07    | .01   | 0      | 0     | 0      |
|                                    | MW-3                  | "H <sub>2</sub> O | .74   | .41    | .20   | .27    | .10   | .11    |
|                                    | MW-2                  | "H <sub>2</sub> O | .61   | .37    | .24   | .23    | .20   | .23    |
|                                    | SVE-3                 | "H <sub>2</sub> O | .14   | .07    | .07   | .06    | .10   | .09    |
|                                    | SVE-1                 | "H <sub>2</sub> O | 1.91  | 1.40   | 1.24  | 1.41   | 1.40  | 1.73   |
|                                    | MW-1                  | "H <sub>2</sub> O | 1.71  | 1.09   | .52   | .28    | .15   | .13    |
| <b>NOTES</b>                       | MW-7                  |                   | .24   | .22    | .13   | .10    | .09   | .11    |
|                                    |                       |                   |       |        |       |        |       |        |
|                                    |                       |                   |       |        |       |        |       |        |
|                                    |                       |                   |       |        |       |        |       |        |
|                                    | DL HEAD               |                   | -     | -      | -     | -      | -     | -      |
|                                    | UPWELLING             |                   | -     | -      | -     | -      | -     | -      |
| <b>EW</b>                          | Extraction Well       | DTNAPL            |       |        |       |        |       |        |
|                                    | Extraction Well       | DTGW              |       |        |       |        |       |        |

Location: Lat L-40, Rio Arriba County, NM

Project Manager: Faucher / George

|                            |                       |                   |       |       |       |       |       |
|----------------------------|-----------------------|-------------------|-------|-------|-------|-------|-------|
| Date                       |                       | 10/20/18          |       |       |       |       |       |
| WELL                       | Time                  | 1415              | 1430  | 1445  | 1500  | 1515  | 1530  |
|                            | Hr Meter              |                   |       |       |       |       |       |
| SVE -3                     |                       |                   |       |       |       |       |       |
| ENGINE / BLOWER            | Engine Speed          | RPM               | 2000  | 2000  | 2000  | 2000  | 1900  |
|                            | Oil Pressure          | psi               | 50    | 50    | 50    | 50    | 50    |
|                            | Water Temp            | °F                | 140   | 140   | 140   | 140   | 140   |
|                            | Alternator            | Volts             | 13    | 13    | 13    | 13    | 13    |
|                            | Intake Vacuum         | "Hg               | 18    | 18    | 18    | 18    | 18    |
|                            | Gas Flow Fuel/Propane | cfh               | 110   | 110   | 110   | 110   | 100   |
| ATMOSPHERE<br>VACUUM / AIR | Extraction Well Vac.  | "H <sub>2</sub> O | 10    | 10    | 20    | 20    | 30    |
|                            | Extraction Well Flow  | scfm              | 9.61  | 9.61  | 15.46 | 15.46 | 17.63 |
|                            | Influent Vapor Temp.  | °F                | 48    | 48    | 48    | 48    | 44    |
|                            | Air Temp              | °F                | 59    | 62    | 62    | 62    | 61    |
|                            | Barometric Pressure   | "Hg               | 29.43 | 29.41 | 29.40 | 29.40 | 29.39 |
| VAPOR / INFLUENT           | TPH                   | ppmv              | -     | 3760  | -     | 3550  | -     |
|                            | CO <sub>2</sub>       | %                 | -     | 2.12  | -     | 2.30  | -     |
|                            | CO                    | %                 | -     | .01   | -     | .01   | -     |
|                            | O <sub>2</sub>        | %                 | -     | 19.3  | -     | 18.4  | -     |
|                            | H <sub>2</sub> S      | ppm               | -     | 0     | -     | 0     | -     |
| Outer Wells                | MW-4                  | "H <sub>2</sub> O | 0     | 0     | 0     | 0     | .02   |
|                            | MW-3                  | "H <sub>2</sub> O | .03   | 0     | 0     | 0     | .03   |
|                            | MW-2                  | "H <sub>2</sub> O | .06   | .02   | .03   | .11   | .16   |
|                            | SVE-2                 | "H <sub>2</sub> O | .06   | .05   | .05   | .06   | .10   |
|                            | SVE-1                 | "H <sub>2</sub> O | .01   | 0     | .01   | 0     | 0     |
|                            | MW-1                  | "H <sub>2</sub> O | .03   | 0     | 0     | 0     | 0     |
| NOTES                      | MW-7                  |                   | .01   | 0     | .02   | .11   | .14   |
|                            |                       |                   |       |       |       |       |       |
|                            |                       |                   |       |       |       |       |       |
|                            |                       |                   |       |       |       |       |       |
|                            |                       |                   |       |       |       |       |       |
|                            |                       |                   |       |       |       |       |       |
| EW                         | DL HEAD               |                   | -     | -     | -     | -     | -     |
|                            | UPWELLING             |                   | -     | -     | -     | -     | -     |
| EW                         | Extraction Well       | DTNAPL            |       |       |       |       |       |
|                            | Extraction Well       | DTGW              |       |       |       |       |       |

Location: Lat L-40, Rio Arriba County, NM

Project Manager: Faucher / George

|                            |                       |                   |       |       |       |       |  |
|----------------------------|-----------------------|-------------------|-------|-------|-------|-------|--|
| Date                       |                       | 10/20/18          |       |       |       |       |  |
| WELL                       |                       | Time              | 1545  | 1600  | 1615  | 1630  |  |
| SVE-3                      |                       | Hr Meter          | -     | -     | -     | -     |  |
| ENGINE / BLOWER            | Engine Speed          | RPM               | 1900  | 2100  | 2100  | 2100  |  |
|                            | Oil Pressure          | psi               | 50    | 50    | 50    | 50    |  |
|                            | Water Temp            | °F                | 140   | 140   | 140   | 140   |  |
|                            | Alternator            | Volts             | 13    | 13    | 13    | 13    |  |
|                            | Intake Vacuum         | "Hg               | 16    | 16    | 16    | 16    |  |
|                            | Gas Flow Fuel/Propane | cfh               | 100   | 110   | 110   | 110   |  |
| ATMOSPHERE<br>VACUUM / AIR | Extraction Well Vac.  | "H <sub>2</sub> O | 40    | 50    | 50    | 50    |  |
|                            | Extraction Well Flow  | scfm              | 21.65 | 3.6   | .36   | .36   |  |
|                            | Influent Vapor Temp.  | °F                | 44    | 44    | 44    | 44    |  |
|                            | Air Temp              | °F                | 61    | 61    | 61    | 60    |  |
|                            | Barometric Pressure   | "Hg               | 29.39 | 29.39 | 29.39 | 29.39 |  |
| VAPOR / INFLUENT           | TPH                   | ppmv              | -     | 3480  | -     | 3200  |  |
|                            | CO <sub>2</sub>       | %                 | -     | 2.52  | -     | 2.34  |  |
|                            | CO                    | %                 | -     | .01   | -     | .01   |  |
|                            | O <sub>2</sub>        | %                 | -     | 19.5  | -     | 19.5  |  |
|                            | H <sub>2</sub> S      | ppm               | -     | 0     | -     | 0     |  |
| Outer Wells                | MW-4                  | "H <sub>2</sub> O | .03   | 0     | 0     | 0     |  |
|                            | MW-3                  | "H <sub>2</sub> O | .13   | .09   | .11   | .13   |  |
|                            | MW-2                  | "H <sub>2</sub> O | .27   | .32   | .37   | .15   |  |
|                            | SVE-2                 | "H <sub>2</sub> O | .18   | .18   | .20   | .23   |  |
|                            | SVE-1                 | "H <sub>2</sub> O | .06   | .03   | .05   | .05   |  |
|                            | MW-1                  | "H <sub>2</sub> O | .05   | 0     | 0     | .02   |  |
| NOTES                      | MW-7                  |                   | .27   | .32   | .42   | .46   |  |
|                            |                       |                   |       |       |       |       |  |
|                            |                       |                   |       |       |       |       |  |
|                            |                       |                   |       |       |       |       |  |
|                            |                       |                   |       |       |       |       |  |
|                            |                       |                   |       |       |       |       |  |
| EW                         | DL HEAD               |                   | -     | -     | -     | -     |  |
|                            | UPWELLING             |                   | -     | -     | -     | -     |  |
| EW                         | Extraction Well       | DTNAPL            |       |       |       |       |  |
|                            | Extraction Well       | DTGW              |       |       |       |       |  |

# APPENDIX G

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-154040-1

Client Project/Site: ElPaso CGP Company, LLC - Lat L 40

For:

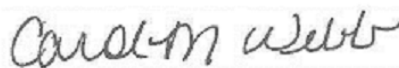
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

5/31/2018 4:18:46 PM

Carol Webb, Project Manager II

(850)471-6250

[carol.webb@testamericainc.com](mailto:carol.webb@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 2  |
| Definitions . . . . .           | 3  |
| Case Narrative . . . . .        | 4  |
| Detection Summary . . . . .     | 5  |
| Sample Summary . . . . .        | 6  |
| Client Sample Results . . . . . | 7  |
| QC Association . . . . .        | 14 |
| QC Sample Results . . . . .     | 15 |
| Chronicle . . . . .             | 19 |
| Certification Summary . . . . . | 21 |
| Method Summary . . . . .        | 22 |
| Chain of Custody . . . . .      | 23 |
| Receipt Checklists . . . . .    | 24 |



## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                                      |
| 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  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Job ID: 400-154040-1**

**Laboratory: TestAmerica Pensacola**

### Narrative

#### Job Narrative 400-154040-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/22/2018 9:19 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

### GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1 (400-154040-1), MW-2 (400-154040-2) and MW-5 (400-154040-5). Elevated reporting limits (RLs) are provided.

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

### VOA Prep

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

## Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

### Client Sample ID: MW-1

### Lab Sample ID: 400-154040-1

| Analyte        | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene        | 120    |           | 10  | ug/L | 10      |   | 8260C  | Total/NA  |
| Ethylbenzene   | 280    |           | 10  | ug/L | 10      |   | 8260C  | Total/NA  |
| Xylenes, Total | 1500   |           | 100 | ug/L | 10      |   | 8260C  | Total/NA  |

### Client Sample ID: MW-2

### Lab Sample ID: 400-154040-2

| Analyte | Result | Qualifier | RL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|------|---------|---|--------|-----------|
| Benzene | 1100   |           | 10 | ug/L | 10      |   | 8260C  | Total/NA  |
| Toluene | 33     |           | 10 | ug/L | 10      |   | 8260C  | Total/NA  |

### Client Sample ID: MW-3

### Lab Sample ID: 400-154040-3

| Analyte | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene | 130    |           | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |
| Toluene | 23     |           | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |

### Client Sample ID: MW-4

### Lab Sample ID: 400-154040-4

| Analyte | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene | 11     |           | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |

### Client Sample ID: MW-5

### Lab Sample ID: 400-154040-5

| Analyte      | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene      | 550    |           | 5.0 | ug/L | 5       |   | 8260C  | Total/NA  |
| Toluene      | 53     |           | 5.0 | ug/L | 5       |   | 8260C  | Total/NA  |
| Ethylbenzene | 42     |           | 5.0 | ug/L | 5       |   | 8260C  | Total/NA  |

### Client Sample ID: DP-01

### Lab Sample ID: 400-154040-6

| Analyte | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene | 140    |           | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |
| Toluene | 30     |           | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |

### Client Sample ID: TB (5/18/18)

### Lab Sample ID: 400-154040-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 400-154040-1  | MW-1             | Water  | 05/18/18 12:25 | 05/22/18 09:19 |
| 400-154040-2  | MW-2             | Water  | 05/18/18 12:40 | 05/22/18 09:19 |
| 400-154040-3  | MW-3             | Water  | 05/18/18 12:20 | 05/22/18 09:19 |
| 400-154040-4  | MW-4             | Water  | 05/18/18 12:15 | 05/22/18 09:19 |
| 400-154040-5  | MW-5             | Water  | 05/18/18 12:30 | 05/22/18 09:19 |
| 400-154040-6  | DP-01            | Water  | 05/18/18 00:00 | 05/22/18 09:19 |
| 400-154040-7  | TB (5/18/18)     | Water  | 05/18/18 12:05 | 05/22/18 09:19 |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: MW-1**

**Date Collected: 05/18/18 12:25**

**Date Received: 05/22/18 09:19**

**Lab Sample ID: 400-154040-1**

**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 120       |           | 10       | ug/L |   |          | 05/28/18 20:54 | 10      |
| Toluene                      | <10       |           | 10       | ug/L |   |          | 05/28/18 20:54 | 10      |
| Ethylbenzene                 | 280       |           | 10       | ug/L |   |          | 05/28/18 20:54 | 10      |
| Xylenes, Total               | 1500      |           | 100      | ug/L |   |          | 05/28/18 20:54 | 10      |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 95        |           | 78 - 118 |      |   |          | 05/28/18 20:54 | 10      |
| Dibromofluoromethane         | 101       |           | 81 - 121 |      |   |          | 05/28/18 20:54 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 67 - 134 |      |   |          | 05/28/18 20:54 | 10      |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: MW-2**  
**Date Collected: 05/18/18 12:40**  
**Date Received: 05/22/18 09:19**

**Lab Sample ID: 400-154040-2**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 1100      |           | 10       | ug/L |   |          | 05/28/18 21:21 | 10      |
| Toluene                      | 33        |           | 10       | ug/L |   |          | 05/28/18 21:21 | 10      |
| Ethylbenzene                 | <10       |           | 10       | ug/L |   |          | 05/28/18 21:21 | 10      |
| Xylenes, Total               | <100      |           | 100      | ug/L |   |          | 05/28/18 21:21 | 10      |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 96        |           | 78 - 118 |      |   |          | 05/28/18 21:21 | 10      |
| Dibromofluoromethane         | 104       |           | 81 - 121 |      |   |          | 05/28/18 21:21 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 67 - 134 |      |   |          | 05/28/18 21:21 | 10      |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: MW-3**  
**Date Collected: 05/18/18 12:20**  
**Date Received: 05/22/18 09:19**

**Lab Sample ID: 400-154040-3**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 130       |           | 1.0      | ug/L |   |          | 05/28/18 19:09 | 1       |
| Toluene                      | 23        |           | 1.0      | ug/L |   |          | 05/28/18 19:09 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 05/28/18 19:09 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 05/28/18 19:09 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 97        |           | 78 - 118 |      |   |          | 05/28/18 19:09 | 1       |
| Dibromofluoromethane         | 102       |           | 81 - 121 |      |   |          | 05/28/18 19:09 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 67 - 134 |      |   |          | 05/28/18 19:09 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: MW-4**  
**Date Collected: 05/18/18 12:15**  
**Date Received: 05/22/18 09:19**

**Lab Sample ID: 400-154040-4**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 11        |           | 1.0      | ug/L |   |          | 05/28/18 19:36 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 05/28/18 19:36 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 05/28/18 19:36 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 05/28/18 19:36 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 98        |           | 78 - 118 |      |   |          | 05/28/18 19:36 | 1       |
| Dibromofluoromethane         | 104       |           | 81 - 121 |      |   |          | 05/28/18 19:36 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 67 - 134 |      |   |          | 05/28/18 19:36 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: MW-5**  
**Date Collected: 05/18/18 12:30**  
**Date Received: 05/22/18 09:19**

**Lab Sample ID: 400-154040-5**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 550       |           | 5.0      | ug/L |   |          | 05/28/18 20:28 | 5       |
| Toluene                      | 53        |           | 5.0      | ug/L |   |          | 05/28/18 20:28 | 5       |
| Ethylbenzene                 | 42        |           | 5.0      | ug/L |   |          | 05/28/18 20:28 | 5       |
| Xylenes, Total               | <50       |           | 50       | ug/L |   |          | 05/28/18 20:28 | 5       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 97        |           | 78 - 118 |      |   |          | 05/28/18 20:28 | 5       |
| Dibromofluoromethane         | 103       |           | 81 - 121 |      |   |          | 05/28/18 20:28 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 109       |           | 67 - 134 |      |   |          | 05/28/18 20:28 | 5       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: DP-01**

**Date Collected: 05/18/18 00:00**

**Date Received: 05/22/18 09:19**

**Lab Sample ID: 400-154040-6**

**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 140       |           | 1.0      | ug/L |   |          | 05/29/18 09:10 | 1       |
| Toluene                      | 30        |           | 1.0      | ug/L |   |          | 05/29/18 09:10 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 05/29/18 09:10 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 05/29/18 09:10 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 100       |           | 78 - 118 |      |   |          | 05/29/18 09:10 | 1       |
| Dibromofluoromethane         | 96        |           | 81 - 121 |      |   |          | 05/29/18 09:10 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 67 - 134 |      |   |          | 05/29/18 09:10 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: TB (5/18/18)**

**Date Collected: 05/18/18 12:05**

**Date Received: 05/22/18 09:19**

**Lab Sample ID: 400-154040-7**

**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0      |           | 1.0      | ug/L |   |          | 05/28/18 15:24 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 05/28/18 15:24 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 05/28/18 15:24 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 05/28/18 15:24 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 99        |           | 78 - 118 |      |   |          | 05/28/18 15:24 | 1       |
| Dibromofluoromethane         | 94        |           | 81 - 121 |      |   |          | 05/28/18 15:24 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 108       |           | 67 - 134 |      |   |          | 05/28/18 15:24 | 1       |

## QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

### GC/MS VOA

#### Analysis Batch: 399157

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 400-154040-1        | MW-1                   | Total/NA  | Water  | 8260C  |            |
| 400-154040-2        | MW-2                   | Total/NA  | Water  | 8260C  |            |
| 400-154040-3        | MW-3                   | Total/NA  | Water  | 8260C  |            |
| 400-154040-4        | MW-4                   | Total/NA  | Water  | 8260C  |            |
| 400-154040-5        | MW-5                   | Total/NA  | Water  | 8260C  |            |
| MB 400-399157/4     | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 400-399157/1002 | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| 400-154042-A-1 MS   | Matrix Spike           | Total/NA  | Water  | 8260C  |            |
| 400-154042-A-1 MSD  | Matrix Spike Duplicate | Total/NA  | Water  | 8260C  |            |

#### Analysis Batch: 399162

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 400-154040-7        | TB (5/18/18)           | Total/NA  | Water  | 8260C  |            |
| MB 400-399162/27    | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 400-399162/1002 | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| 400-154079-A-12 MS  | Matrix Spike           | Total/NA  | Water  | 8260C  |            |
| 400-154079-A-12 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260C  |            |

#### Analysis Batch: 399165

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 400-154040-6        | DP-01                  | Total/NA  | Water  | 8260C  |            |
| MB 400-399165/4     | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 400-399165/1002 | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| 400-154258-A-1 MS   | Matrix Spike           | Total/NA  | Water  | 8260C  |            |
| 400-154258-A-1 MSD  | Matrix Spike Duplicate | Total/NA  | Water  | 8260C  |            |

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

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

Lab Sample ID: MB 400-399157/4

Matrix: Water

Analysis Batch: 399157

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-----|------|---|----------|----------------|---------|
| Benzene        | <1.0      |              | 1.0 | ug/L |   |          | 05/28/18 11:15 | 1       |
| Toluene        | <1.0      |              | 1.0 | ug/L |   |          | 05/28/18 11:15 | 1       |
| Ethylbenzene   | <1.0      |              | 1.0 | ug/L |   |          | 05/28/18 11:15 | 1       |
| Xylenes, Total | <10       |              | 10  | ug/L |   |          | 05/28/18 11:15 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene         | 96           |              | 78 - 118 |          | 05/28/18 11:15 | 1       |
| Dibromofluoromethane         | 108          |              | 81 - 121 |          | 05/28/18 11:15 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 113          |              | 67 - 134 |          | 05/28/18 11:15 | 1       |

Lab Sample ID: LCS 400-399157/1002

Matrix: Water

Analysis Batch: 399157

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Benzene        | 50.0        | 54.9       |               | ug/L |   | 110  | 70 - 130     |
| Toluene        | 50.0        | 55.9       |               | ug/L |   | 112  | 70 - 130     |
| Ethylbenzene   | 50.0        | 57.9       |               | ug/L |   | 116  | 70 - 130     |
| Xylenes, Total | 100         | 115        |               | ug/L |   | 115  | 70 - 130     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene         | 95            |               | 78 - 118 |
| Dibromofluoromethane         | 102           |               | 81 - 121 |
| 1,2-Dichloroethane-d4 (Surr) | 109           |               | 67 - 134 |

Lab Sample ID: 400-154042-A-1 MS

Matrix: Water

Analysis Batch: 399157

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Benzene        | <1.0          |                  | 50.0        | 50.6      |              | ug/L |   | 101  | 56 - 142     |
| Toluene        | <1.0          |                  | 50.0        | 50.6      |              | ug/L |   | 101  | 65 - 130     |
| Ethylbenzene   | <1.0          |                  | 50.0        | 52.4      |              | ug/L |   | 105  | 58 - 131     |
| Xylenes, Total | <10           |                  | 100         | 103       |              | ug/L |   | 103  | 59 - 130     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene         | 93           |              | 78 - 118 |
| Dibromofluoromethane         | 101          |              | 81 - 121 |
| 1,2-Dichloroethane-d4 (Surr) | 107          |              | 67 - 134 |

Lab Sample ID: 400-154042-A-1 MSD

Matrix: Water

Analysis Batch: 399157

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Benzene | <1.0          |                  | 50.0        | 50.1       |               | ug/L |   | 100  | 56 - 142     | 1   | 30        |
| Toluene | <1.0          |                  | 50.0        | 51.2       |               | ug/L |   | 102  | 65 - 130     | 1   | 30        |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

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

Lab Sample ID: 400-154042-A-1 MSD

Matrix: Water

Analysis Batch: 399157

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Ethylbenzene                 | <1.0          |                  | 50.0        | 52.3       |               | ug/L |   | 105  | 58 - 131     | 0   | 30        |
| Xylenes, Total               | <10           |                  | 100         | 103        |               | ug/L |   | 103  | 59 - 130     | 0   | 30        |
| Surrogate                    | MSD %Recovery | MSD Qualifier    | Limits      |            |               |      |   |      |              |     |           |
| 4-Bromofluorobenzene         | 96            |                  | 78 - 118    |            |               |      |   |      |              |     |           |
| Dibromofluoromethane         | 101           |                  | 81 - 121    |            |               |      |   |      |              |     |           |
| 1,2-Dichloroethane-d4 (Surr) | 106           |                  | 67 - 134    |            |               |      |   |      |              |     |           |

Lab Sample ID: MB 400-399162/27

Matrix: Water

Analysis Batch: 399162

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB Result    | MB Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0         |              | 1.0      | ug/L |   |          | 05/28/18 12:48 | 1       |
| Toluene                      | <1.0         |              | 1.0      | ug/L |   |          | 05/28/18 12:48 | 1       |
| Ethylbenzene                 | <1.0         |              | 1.0      | ug/L |   |          | 05/28/18 12:48 | 1       |
| Xylenes, Total               | <10          |              | 10       | ug/L |   |          | 05/28/18 12:48 | 1       |
| Surrogate                    | MB %Recovery | MB Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 99           |              | 78 - 118 |      |   |          | 05/28/18 12:48 | 1       |
| Dibromofluoromethane         | 95           |              | 81 - 121 |      |   |          | 05/28/18 12:48 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 109          |              | 67 - 134 |      |   |          | 05/28/18 12:48 | 1       |

Lab Sample ID: LCS 400-399162/1002

Matrix: Water

Analysis Batch: 399162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                      | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|---------------|---------------|---------------|------|---|------|--------------|
| Benzene                      | 50.0          | 52.3          |               | ug/L |   | 105  | 70 - 130     |
| Toluene                      | 50.0          | 56.7          |               | ug/L |   | 113  | 70 - 130     |
| Ethylbenzene                 | 50.0          | 57.0          |               | ug/L |   | 114  | 70 - 130     |
| Xylenes, Total               | 100           | 113           |               | ug/L |   | 113  | 70 - 130     |
| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 4-Bromofluorobenzene         | 96            |               | 78 - 118      |      |   |      |              |
| Dibromofluoromethane         | 94            |               | 81 - 121      |      |   |      |              |
| 1,2-Dichloroethane-d4 (Surr) | 109           |               | 67 - 134      |      |   |      |              |

Lab Sample ID: 400-154079-A-12 MS

Matrix: Water

Analysis Batch: 399162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Benzene        | <1.0          |                  | 50.0        | 53.5      |              | ug/L |   | 105  | 56 - 142     |
| Toluene        | <1.0          |                  | 50.0        | 56.6      |              | ug/L |   | 113  | 65 - 130     |
| Ethylbenzene   | <1.0          |                  | 50.0        | 57.5      |              | ug/L |   | 115  | 58 - 131     |
| Xylenes, Total | <10           |                  | 100         | 114       |              | ug/L |   | 114  | 59 - 130     |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

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

Lab Sample ID: 400-154079-A-12 MS

Matrix: Water

Analysis Batch: 399162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Surrogate                    | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|------------------------------|-----------------|-----------------|----------|
| 4-Bromofluorobenzene         | 98              |                 | 78 - 118 |
| Dibromofluoromethane         | 97              |                 | 81 - 121 |
| 1,2-Dichloroethane-d4 (Surr) | 106             |                 | 67 - 134 |

Lab Sample ID: 400-154079-A-12 MSD

Matrix: Water

Analysis Batch: 399162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| Benzene        | <1.0             |                     | 50.0           | 53.2          |                  | ug/L |   | 105  | 56 - 142        | 1   | 30           |
| Toluene        | <1.0             |                     | 50.0           | 53.3          |                  | ug/L |   | 107  | 65 - 130        | 6   | 30           |
| Ethylbenzene   | <1.0             |                     | 50.0           | 53.0          |                  | ug/L |   | 106  | 58 - 131        | 8   | 30           |
| Xylenes, Total | <10              |                     | 100            | 104           |                  | ug/L |   | 104  | 59 - 130        | 9   | 30           |

| Surrogate                    | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |
|------------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene         | 99               |                  | 78 - 118 |
| Dibromofluoromethane         | 95               |                  | 81 - 121 |
| 1,2-Dichloroethane-d4 (Surr) | 106              |                  | 67 - 134 |

Lab Sample ID: MB 400-399165/4

Matrix: Water

Analysis Batch: 399165

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB<br>Result | MB<br>Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|-----|------|---|----------|----------------|---------|
| Benzene        | <1.0         |                 | 1.0 | ug/L |   |          | 05/29/18 07:56 | 1       |
| Toluene        | <1.0         |                 | 1.0 | ug/L |   |          | 05/29/18 07:56 | 1       |
| Ethylbenzene   | <1.0         |                 | 1.0 | ug/L |   |          | 05/29/18 07:56 | 1       |
| Xylenes, Total | <10          |                 | 10  | ug/L |   |          | 05/29/18 07:56 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene         | 99              |                 | 78 - 118 |          | 05/29/18 07:56 | 1       |
| Dibromofluoromethane         | 93              |                 | 81 - 121 |          | 05/29/18 07:56 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 109             |                 | 67 - 134 |          | 05/29/18 07:56 | 1       |

Lab Sample ID: LCS 400-399165/1002

Matrix: Water

Analysis Batch: 399165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|-----------------|
| Benzene        | 50.0           | 49.8          |                  | ug/L |   | 100  | 70 - 130        |
| Toluene        | 50.0           | 53.4          |                  | ug/L |   | 107  | 70 - 130        |
| Ethylbenzene   | 50.0           | 55.0          |                  | ug/L |   | 110  | 70 - 130        |
| Xylenes, Total | 100            | 109           |                  | ug/L |   | 109  | 70 - 130        |

| Surrogate            | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene | 97               |                  | 78 - 118 |
| Dibromofluoromethane | 96               |                  | 81 - 121 |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

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

Lab Sample ID: LCS 400-399165/1002

Matrix: Water

Analysis Batch: 399165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 105       |           | 67 - 134 |

Lab Sample ID: 400-154258-A-1 MS

Matrix: Water

Analysis Batch: 399165

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Benzene        | <1.0          |                  | 50.0        | 53.0      |              | ug/L |   | 106  | 56 - 142     |
| Toluene        | <1.0          |                  | 50.0        | 55.8      |              | ug/L |   | 112  | 65 - 130     |
| Ethylbenzene   | <1.0          |                  | 50.0        | 56.0      |              | ug/L |   | 112  | 58 - 131     |
| Xylenes, Total | <10           |                  | 100         | 108       |              | ug/L |   | 108  | 59 - 130     |

|                              | MS        | MS        |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene         | 97        |           | 78 - 118 |
| Dibromofluoromethane         | 97        |           | 81 - 121 |
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 67 - 134 |

Lab Sample ID: 400-154258-A-1 MSD

Matrix: Water

Analysis Batch: 399165

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Benzene        | <1.0          |                  | 50.0        | 49.4       |               | ug/L |   | 99   | 56 - 142     | 7   | 30        |
| Toluene        | <1.0          |                  | 50.0        | 51.1       |               | ug/L |   | 102  | 65 - 130     | 9   | 30        |
| Ethylbenzene   | <1.0          |                  | 50.0        | 50.6       |               | ug/L |   | 101  | 58 - 131     | 10  | 30        |
| Xylenes, Total | <10           |                  | 100         | 100        |               | ug/L |   | 100  | 59 - 130     | 8   | 30        |

|                              | MSD       | MSD       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene         | 99        |           | 78 - 118 |
| Dibromofluoromethane         | 95        |           | 81 - 121 |
| 1,2-Dichloroethane-d4 (Surr) | 109       |           | 67 - 134 |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

## Client Sample ID: MW-1

Date Collected: 05/18/18 12:25

Date Received: 05/22/18 09:19

## Lab Sample ID: 400-154040-1

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        |     | 10         | 5 mL           | 5 mL         | 399157       | 05/28/18 20:54       | WPD     | TAL PEN |
| Instrument ID: CH_TAN |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-2

Date Collected: 05/18/18 12:40

Date Received: 05/22/18 09:19

## Lab Sample ID: 400-154040-2

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        |     | 10         | 5 mL           | 5 mL         | 399157       | 05/28/18 21:21       | WPD     | TAL PEN |
| Instrument ID: CH_TAN |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-3

Date Collected: 05/18/18 12:20

Date Received: 05/22/18 09:19

## Lab Sample ID: 400-154040-3

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         | 399157       | 05/28/18 19:09       | WPD     | TAL PEN |
| Instrument ID: CH_TAN |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-4

Date Collected: 05/18/18 12:15

Date Received: 05/22/18 09:19

## Lab Sample ID: 400-154040-4

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         | 399157       | 05/28/18 19:36       | WPD     | TAL PEN |
| Instrument ID: CH_TAN |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-5

Date Collected: 05/18/18 12:30

Date Received: 05/22/18 09:19

## Lab Sample ID: 400-154040-5

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        |     | 5          | 5 mL           | 5 mL         | 399157       | 05/28/18 20:28       | WPD     | TAL PEN |
| Instrument ID: CH_TAN |            |              |     |            |                |              |              |                      |         |         |

## Client Sample ID: DP-01

Date Collected: 05/18/18 00:00

Date Received: 05/22/18 09:19

## Lab Sample ID: 400-154040-6

Matrix: Water

| Prep Type               | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA                | Analysis   | 8260C        |     | 1          | 5 mL           | 5 mL         | 399165       | 05/29/18 09:10       | WPD     | TAL PEN |
| Instrument ID: CH_CONAN |            |              |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

**Client Sample ID: TB (5/18/18)**

**Lab Sample ID: 400-154040-7**

**Date Collected: 05/18/18 12:05**

**Matrix: Water**

**Date Received: 05/22/18 09:19**

| 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         | 399162       | 05/28/18 15:24       | WPD     | TAL PEN |
| Instrument ID: CH_CONAN |            |              |     |            |                |              |              |                      |         |         |

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

### Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-18        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-19        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-18        |
| California             | ELAP          | 9          | 2510                  | 06-30-18        |
| Florida                | NELAP         | 4          | E81010                | 06-30-18        |
| Georgia                | State Program | 4          | N/A                   | 06-30-18        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-18        |
| Iowa                   | State Program | 7          | 367                   | 08-01-18        |
| Kansas                 | NELAP         | 7          | E-10253               | 10-31-18        |
| Kentucky (UST)         | State Program | 4          | 53                    | 06-30-18        |
| Kentucky (WW)          | State Program | 4          | 98030                 | 12-31-18        |
| Louisiana              | NELAP         | 6          | 30976                 | 06-30-18        |
| Louisiana (DW)         | NELAP         | 6          | LA170005              | 12-31-18        |
| Maryland               | State Program | 3          | 233                   | 09-30-18        |
| Massachusetts          | State Program | 1          | M-FL094               | 06-30-18        |
| Michigan               | State Program | 5          | 9912                  | 06-30-18        |
| New Jersey             | NELAP         | 2          | FL006                 | 06-30-18        |
| North Carolina (WW/SW) | State Program | 4          | 314                   | 12-31-18        |
| Oklahoma               | State Program | 6          | 9810                  | 08-31-18        |
| Pennsylvania           | NELAP         | 3          | 68-00467              | 01-31-19        |
| Rhode Island           | State Program | 1          | LAO00307              | 12-30-18        |
| South Carolina         | State Program | 4          | 96026                 | 06-30-18        |
| Tennessee              | State Program | 4          | TN02907               | 06-30-18        |
| USDA                   | Federal       |            | P330-16-00172         | 05-24-19        |
| Virginia               | NELAP         | 3          | 460166                | 06-14-18        |
| Washington             | State Program | 10         | C915                  | 05-15-19        |

## Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L 40

TestAmerica Job ID: 400-154040-1

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

### Protocol References:

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

### Laboratory References:

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

## Chain of Custody Record

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                            |                                                                     |                                                                          |                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Client Information</b><br>Client Contact: Ms. Sarah Gardner<br>Company: Stantec Consulting Services Inc<br>Address: 1560 Broadway Suite 1800<br>City: Denver<br>State, Zip: CO, 80202<br>Phone: 303-291-2239 (Tel)<br>Email: sarah.gardner@mwglobal.com<br>Project Name: Lat L 40 Q2 2018<br>Site: Lat L-40                                                                                                                  |  | Sampler: S. Gardner / S. Hansen<br>Lab PM: Webb, Carol M<br>Phone: 303 291 2239<br>E-Mail: carol.webb@testamericainc.com                                                                                   |                                                                     | Carrier Tracking No(s): 400-74085-29207.1<br>Page: Page 1 of 1<br>Job #: |                                                                                                 |
| <b>Analysis Requested</b><br>Due Date Requested:<br>TAT Requested (days): <i>Standard</i><br>PO #: 303-291-2239 (Tel)<br>See Project Notes<br>WO #: 4005479<br>Project #: 4005479<br>SSOW#:                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                            |                                                                     |                                                                          |                                                                                                 |
| <b>Sample Identification</b><br>MW-1<br>MW-2<br>MW-3<br>MW-4<br>MW-5<br>DP-01<br>TB (5/18/18)                                                                                                                                                                                                                                                                                                                                   |  | Sample Date<br>5/18/18<br>5/18/18<br>5/18/18<br>5/18/18<br>5/18/18<br>5/18/18<br>5/18/18                                                                                                                   | Sample Time<br>1225<br>1240<br>1220<br>1215<br>1230<br>1205<br>1205 | Sample Type<br>(C=comp, G=grab)<br>G<br>G<br>G<br>G<br>G<br>G<br>G       | Matrix<br>(W=water, S=solid, O=water/soil, BT=Tissue, A=Air)<br>W<br>W<br>W<br>W<br>W<br>W<br>W |
| Field Filtered Sample (Yes or No)<br>8260C - (MOD) BTEX 8260                                                                                                                                                                                                                                                                                                                                                                    |  | Total Number of containers<br>3<br>3<br>3<br>3<br>3<br>3<br>3                                                                                                                                              |                                                                     |                                                                          |                                                                                                 |
| Special Instructions/Note:<br>Preservation Codes:<br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other:<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO4<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |  | Special Instructions/Note:<br>Return To Client <input type="checkbox"/> Archive For <input type="checkbox"/> Months<br>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |                                                                     |                                                                          |                                                                                                 |
| Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                   |  |                                                                                                                                                                                                            |                                                                     |                                                                          |                                                                                                 |
| Empty Kit Relinquished by: _____ Date: _____<br>Relinquished by: <i>Sarah Gardner</i> Date/Time: 5/21/2018 800<br>Relinquished by: _____ Date/Time: _____<br>Relinquished by: _____ Date/Time: _____<br>Custody Seal No.: _____<br>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                               |  |                                                                                                                                                                                                            |                                                                     |                                                                          |                                                                                                 |
| Method of Shipment: _____<br>Received by: _____ Date/Time: _____<br>Received by: _____ Date/Time: _____<br>Received by: <i>R. E.</i> Date/Time: 5/22/18 0919<br>Cooler Temperature(s) °C and Other Remarks: 2.00C 1R7                                                                                                                                                                                                           |  |                                                                                                                                                                                                            |                                                                     |                                                                          |                                                                                                 |

## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-154040-1

Login Number: 154040

List Source: TestAmerica Pensacola

List Number: 1

Creator: Whitley, Adrian

| Question                                                                                 | Answer | Comment   |
|------------------------------------------------------------------------------------------|--------|-----------|
| Radioactivity wasn't checked or is $\leq$ 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   | 2.0°C IR7 |
| COC is present.                                                                          | True   |           |
| COC is filled out in ink and legible.                                                    | True   |           |
| COC is filled out with all pertinent information.                                        | True   |           |
| Is the Field Sampler's name present on COC?                                              | True   |           |
| There are no discrepancies between the containers received and the COC.                  | True   |           |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |           |
| Sample containers have legible labels.                                                   | True   |           |
| Containers are not broken or leaking.                                                    | True   |           |
| Sample collection date/times are provided.                                               | True   |           |
| Appropriate sample containers are used.                                                  | True   |           |
| Sample bottles are completely filled.                                                    | True   |           |
| Sample Preservation Verified.                                                            | 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 $<6\text{mm}$ (1/4"). | True   |           |
| Multiphasic samples are not present.                                                     | True   |           |
| Samples do not require splitting or compositing.                                         | True   |           |
| Residual Chlorine Checked.                                                               | N/A    |           |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-161559-1

Client Project/Site: ElPaso CGP Company, LLC - Lat L40

For:

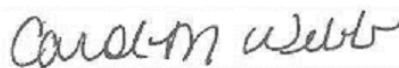
Stantec Consulting Services Inc

1560 Broadway

Suite 1800

Denver, Colorado 80202

Attn: Ms. Sarah Gardner



Authorized for release by:

11/13/2018 1:52:30 PM

Carol Webb, Project Manager II

(850)471-6250

[carol.webb@testamericainc.com](mailto:carol.webb@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

# Table of Contents

|                                 |    |
|---------------------------------|----|
| Cover Page . . . . .            | 1  |
| Table of Contents . . . . .     | 2  |
| Definitions . . . . .           | 3  |
| Case Narrative . . . . .        | 4  |
| Detection Summary . . . . .     | 5  |
| Sample Summary . . . . .        | 7  |
| Client Sample Results . . . . . | 8  |
| QC Association . . . . .        | 19 |
| QC Sample Results . . . . .     | 20 |
| Chronicle . . . . .             | 23 |
| Certification Summary . . . . . | 26 |
| Method Summary . . . . .        | 27 |
| Chain of Custody . . . . .      | 28 |
| Receipt Checklists . . . . .    | 29 |



## Definitions/Glossary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                                |
|-----------|------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits. |
| F2        | MS/MSD RPD exceeds control limits                    |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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)                                                                                      |
| 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  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Job ID: 400-161559-1**

**Laboratory: TestAmerica Pensacola**

### Narrative

#### Job Narrative 400-161559-1

### Comments

No additional comments.

### Receipt

The samples were received on 11/3/2018 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

### GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1 (400-161559-1), MW-5 (400-161559-5) and DUP-01 (400-161559-10). Elevated reporting limits (RLs) are provided.

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

### VOA Prep

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

# Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

## Client Sample ID: MW-1

## Lab Sample ID: 400-161559-1

| Analyte             | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|---------------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene             | 190    |           | 2.0 | ug/L | 2       |   | 8260C  | Total/NA  |
| Toluene             | 48     |           | 2.0 | ug/L | 2       |   | 8260C  | Total/NA  |
| Ethylbenzene        | 150    |           | 2.0 | ug/L | 2       |   | 8260C  | Total/NA  |
| Xylenes, Total - DL | 1200   |           | 50  | ug/L | 5       |   | 8260C  | Total/NA  |

## Client Sample ID: MW-2

## Lab Sample ID: 400-161559-2

| Analyte        | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene        | 130    | F2 F1     | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |
| Toluene        | 25     | F2 F1     | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |
| Xylenes, Total | 13     |           | 10  | ug/L | 1       |   | 8260C  | Total/NA  |

## Client Sample ID: MW-3

## Lab Sample ID: 400-161559-3

No Detections.

## Client Sample ID: MW-4

## Lab Sample ID: 400-161559-4

No Detections.

## Client Sample ID: MW-5

## Lab Sample ID: 400-161559-5

| Analyte        | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Toluene        | 370    |           | 2.0 | ug/L | 2       |   | 8260C  | Total/NA  |
| Ethylbenzene   | 190    |           | 2.0 | ug/L | 2       |   | 8260C  | Total/NA  |
| Xylenes, Total | 810    |           | 20  | ug/L | 2       |   | 8260C  | Total/NA  |
| Benzene - DL   | 1200   |           | 10  | ug/L | 10      |   | 8260C  | Total/NA  |

## Client Sample ID: MW-7

## Lab Sample ID: 400-161559-6

No Detections.

## Client Sample ID: MW-8

## Lab Sample ID: 400-161559-7

No Detections.

## Client Sample ID: MW-9

## Lab Sample ID: 400-161559-8

| Analyte | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|---------|---|--------|-----------|
| Benzene | 5.6    |           | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |
| Toluene | 5.5    |           | 1.0 | ug/L | 1       |   | 8260C  | Total/NA  |

## Client Sample ID: MW-10

## Lab Sample ID: 400-161559-9

No Detections.

## Client Sample ID: DUP-01

## Lab Sample ID: 400-161559-10

| Analyte        | Result | Qualifier | RL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Toluene        | 270    |           | 2.0 | ug/L | 2       |   | 8260C  | Total/NA  |
| Ethylbenzene   | 120    |           | 2.0 | ug/L | 2       |   | 8260C  | Total/NA  |
| Xylenes, Total | 550    |           | 20  | ug/L | 2       |   | 8260C  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

## Detection Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

### Client Sample ID: DUP-01 (Continued)

Lab Sample ID: 400-161559-10

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

### Client Sample ID: TB-01

Lab Sample ID: 400-161559-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

## Sample Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 400-161559-1  | MW-1             | Water  | 11/01/18 14:00 | 11/03/18 08:15 |
| 400-161559-2  | MW-2             | Water  | 11/01/18 14:30 | 11/03/18 08:15 |
| 400-161559-3  | MW-3             | Water  | 11/01/18 14:10 | 11/03/18 08:15 |
| 400-161559-4  | MW-4             | Water  | 11/01/18 13:30 | 11/03/18 08:15 |
| 400-161559-5  | MW-5             | Water  | 11/01/18 14:20 | 11/03/18 08:15 |
| 400-161559-6  | MW-7             | Water  | 11/01/18 13:35 | 11/03/18 08:15 |
| 400-161559-7  | MW-8             | Water  | 11/01/18 13:40 | 11/03/18 08:15 |
| 400-161559-8  | MW-9             | Water  | 11/01/18 13:50 | 11/03/18 08:15 |
| 400-161559-9  | MW-10            | Water  | 11/01/18 13:55 | 11/03/18 08:15 |
| 400-161559-10 | DUP-01           | Water  | 11/01/18 12:05 | 11/03/18 08:15 |
| 400-161559-11 | TB-01            | Water  | 11/01/18 12:00 | 11/03/18 08:15 |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: El Paso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-1**

**Date Collected: 11/01/18 14:00**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-1**

**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 190       |           | 2.0      | ug/L |   |          | 11/07/18 23:04 | 2       |
| Toluene                      | 48        |           | 2.0      | ug/L |   |          | 11/07/18 23:04 | 2       |
| Ethylbenzene                 | 150       |           | 2.0      | ug/L |   |          | 11/07/18 23:04 | 2       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 104       |           | 78 - 118 |      |   |          | 11/07/18 23:04 | 2       |
| Dibromofluoromethane         | 101       |           | 81 - 121 |      |   |          | 11/07/18 23:04 | 2       |
| Toluene-d8 (Surr)            | 110       |           | 80 - 120 |      |   |          | 11/07/18 23:04 | 2       |
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 67 - 134 |      |   |          | 11/07/18 23:04 | 2       |

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Xylenes, Total               | 1200      |           | 50       | ug/L |   |          | 11/08/18 11:02 | 5       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 100       |           | 78 - 118 |      |   |          | 11/08/18 11:02 | 5       |
| Dibromofluoromethane         | 101       |           | 81 - 121 |      |   |          | 11/08/18 11:02 | 5       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |      |   |          | 11/08/18 11:02 | 5       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 67 - 134 |      |   |          | 11/08/18 11:02 | 5       |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-2**  
**Date Collected: 11/01/18 14:30**  
**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-2**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 130       | F2 F1     | 1.0      | ug/L |   |          | 11/07/18 17:28 | 1       |
| Toluene                      | 25        | F2 F1     | 1.0      | ug/L |   |          | 11/07/18 17:28 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 17:28 | 1       |
| Xylenes, Total               | 13        |           | 10       | ug/L |   |          | 11/07/18 17:28 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 104       |           | 78 - 118 |      |   |          | 11/07/18 17:28 | 1       |
| Dibromofluoromethane         | 101       |           | 81 - 121 |      |   |          | 11/07/18 17:28 | 1       |
| Toluene-d8 (Surr)            | 105       |           | 80 - 120 |      |   |          | 11/07/18 17:28 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 67 - 134 |      |   |          | 11/07/18 17:28 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-3**  
**Date Collected: 11/01/18 14:10**  
**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-3**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 19:53 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 19:53 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 19:53 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 11/07/18 19:53 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 106       |           | 78 - 118 |      |   |          | 11/07/18 19:53 | 1       |
| Dibromofluoromethane         | 101       |           | 81 - 121 |      |   |          | 11/07/18 19:53 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 80 - 120 |      |   |          | 11/07/18 19:53 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 112       |           | 67 - 134 |      |   |          | 11/07/18 19:53 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-4**  
**Date Collected: 11/01/18 13:30**  
**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-4**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 20:17 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 20:17 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 20:17 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 11/07/18 20:17 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 104       |           | 78 - 118 |      |   |          | 11/07/18 20:17 | 1       |
| Dibromofluoromethane         | 101       |           | 81 - 121 |      |   |          | 11/07/18 20:17 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 80 - 120 |      |   |          | 11/07/18 20:17 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 117       |           | 67 - 134 |      |   |          | 11/07/18 20:17 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-5**  
**Date Collected: 11/01/18 14:20**  
**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-5**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Toluene                      | 370       |           | 2.0      | ug/L |   |          | 11/07/18 23:28 | 2       |
| Ethylbenzene                 | 190       |           | 2.0      | ug/L |   |          | 11/07/18 23:28 | 2       |
| Xylenes, Total               | 810       |           | 20       | ug/L |   |          | 11/07/18 23:28 | 2       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 106       |           | 78 - 118 |      |   |          | 11/07/18 23:28 | 2       |
| Dibromofluoromethane         | 97        |           | 81 - 121 |      |   |          | 11/07/18 23:28 | 2       |
| Toluene-d8 (Surr)            | 109       |           | 80 - 120 |      |   |          | 11/07/18 23:28 | 2       |
| 1,2-Dichloroethane-d4 (Surr) | 112       |           | 67 - 134 |      |   |          | 11/07/18 23:28 | 2       |

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 1200      |           | 10       | ug/L |   |          | 11/08/18 11:27 | 10      |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 100       |           | 78 - 118 |      |   |          | 11/08/18 11:27 | 10      |
| Dibromofluoromethane         | 102       |           | 81 - 121 |      |   |          | 11/08/18 11:27 | 10      |
| Toluene-d8 (Surr)            | 98        |           | 80 - 120 |      |   |          | 11/08/18 11:27 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 67 - 134 |      |   |          | 11/08/18 11:27 | 10      |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-7**  
**Date Collected: 11/01/18 13:35**  
**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-6**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 20:41 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 20:41 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 20:41 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 11/07/18 20:41 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 110       |           | 78 - 118 |      |   |          | 11/07/18 20:41 | 1       |
| Dibromofluoromethane         | 100       |           | 81 - 121 |      |   |          | 11/07/18 20:41 | 1       |
| Toluene-d8 (Surr)            | 105       |           | 80 - 120 |      |   |          | 11/07/18 20:41 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 67 - 134 |      |   |          | 11/07/18 20:41 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-8**  
**Date Collected: 11/01/18 13:40**  
**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-7**  
**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 21:05 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 21:05 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 21:05 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 11/07/18 21:05 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 104       |           | 78 - 118 |      |   |          | 11/07/18 21:05 | 1       |
| Dibromofluoromethane         | 101       |           | 81 - 121 |      |   |          | 11/07/18 21:05 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 80 - 120 |      |   |          | 11/07/18 21:05 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 115       |           | 67 - 134 |      |   |          | 11/07/18 21:05 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-9**

**Date Collected: 11/01/18 13:50**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-8**

**Matrix: Water**

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

| Analyte        | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----|------|---|----------|----------------|---------|
| Benzene        | 5.6    |           | 1.0 | ug/L |   |          | 11/07/18 21:29 | 1       |
| Toluene        | 5.5    |           | 1.0 | ug/L |   |          | 11/07/18 21:29 | 1       |
| Ethylbenzene   | <1.0   |           | 1.0 | ug/L |   |          | 11/07/18 21:29 | 1       |
| Xylenes, Total | <10    |           | 10  | ug/L |   |          | 11/07/18 21:29 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene         | 107       |           | 78 - 118 |          | 11/07/18 21:29 | 1       |
| Dibromofluoromethane         | 99        |           | 81 - 121 |          | 11/07/18 21:29 | 1       |
| Toluene-d8 (Surr)            | 108       |           | 80 - 120 |          | 11/07/18 21:29 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 116       |           | 67 - 134 |          | 11/07/18 21:29 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-10**

**Date Collected: 11/01/18 13:55**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-9**

**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 21:53 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 21:53 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 21:53 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 11/07/18 21:53 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 106       |           | 78 - 118 |      |   |          | 11/07/18 21:53 | 1       |
| Dibromofluoromethane         | 102       |           | 81 - 121 |      |   |          | 11/07/18 21:53 | 1       |
| Toluene-d8 (Surr)            | 106       |           | 80 - 120 |      |   |          | 11/07/18 21:53 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 118       |           | 67 - 134 |      |   |          | 11/07/18 21:53 | 1       |

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: DUP-01**

**Date Collected: 11/01/18 12:05**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-10**

**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Toluene                      | 270       |           | 2.0      | ug/L |   |          | 11/07/18 23:52 | 2       |
| Ethylbenzene                 | 120       |           | 2.0      | ug/L |   |          | 11/07/18 23:52 | 2       |
| Xylenes, Total               | 550       |           | 20       | ug/L |   |          | 11/07/18 23:52 | 2       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 105       |           | 78 - 118 |      |   |          | 11/07/18 23:52 | 2       |
| Dibromofluoromethane         | 99        |           | 81 - 121 |      |   |          | 11/07/18 23:52 | 2       |
| Toluene-d8 (Surr)            | 107       |           | 80 - 120 |      |   |          | 11/07/18 23:52 | 2       |
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 67 - 134 |      |   |          | 11/07/18 23:52 | 2       |

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | 1200      |           | 10       | ug/L |   |          | 11/08/18 11:52 | 10      |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 101       |           | 78 - 118 |      |   |          | 11/08/18 11:52 | 10      |
| Dibromofluoromethane         | 103       |           | 81 - 121 |      |   |          | 11/08/18 11:52 | 10      |
| Toluene-d8 (Surr)            | 96        |           | 80 - 120 |      |   |          | 11/08/18 11:52 | 10      |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 67 - 134 |      |   |          | 11/08/18 11:52 | 10      |

TestAmerica Pensacola

# Client Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: TB-01**

**Date Collected: 11/01/18 12:00**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-11**

**Matrix: Water**

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

| Analyte                      | Result    | Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 19:05 | 1       |
| Toluene                      | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 19:05 | 1       |
| Ethylbenzene                 | <1.0      |           | 1.0      | ug/L |   |          | 11/07/18 19:05 | 1       |
| Xylenes, Total               | <10       |           | 10       | ug/L |   |          | 11/07/18 19:05 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene         | 105       |           | 78 - 118 |      |   |          | 11/07/18 19:05 | 1       |
| Dibromofluoromethane         | 100       |           | 81 - 121 |      |   |          | 11/07/18 19:05 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 113       |           | 67 - 134 |      |   |          | 11/07/18 19:05 | 1       |

## QC Association Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

### GC/MS VOA

#### Analysis Batch: 418711

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 400-161559-1        | MW-1               | Total/NA  | Water  | 8260C  |            |
| 400-161559-2        | MW-2               | Total/NA  | Water  | 8260C  |            |
| 400-161559-3        | MW-3               | Total/NA  | Water  | 8260C  |            |
| 400-161559-4        | MW-4               | Total/NA  | Water  | 8260C  |            |
| 400-161559-5        | MW-5               | Total/NA  | Water  | 8260C  |            |
| 400-161559-6        | MW-7               | Total/NA  | Water  | 8260C  |            |
| 400-161559-7        | MW-8               | Total/NA  | Water  | 8260C  |            |
| 400-161559-8        | MW-9               | Total/NA  | Water  | 8260C  |            |
| 400-161559-9        | MW-10              | Total/NA  | Water  | 8260C  |            |
| 400-161559-10       | DUP-01             | Total/NA  | Water  | 8260C  |            |
| 400-161559-11       | TB-01              | Total/NA  | Water  | 8260C  |            |
| MB 400-418711/4     | Method Blank       | Total/NA  | Water  | 8260C  |            |
| LCS 400-418711/1002 | Lab Control Sample | Total/NA  | Water  | 8260C  |            |
| 400-161559-2 MS     | MW-2               | Total/NA  | Water  | 8260C  |            |
| 400-161559-2 MSD    | MW-2               | Total/NA  | Water  | 8260C  |            |

#### Analysis Batch: 418794

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 400-161559-1 - DL   | MW-1                   | Total/NA  | Water  | 8260C  |            |
| 400-161559-5 - DL   | MW-5                   | Total/NA  | Water  | 8260C  |            |
| 400-161559-10 - DL  | DUP-01                 | Total/NA  | Water  | 8260C  |            |
| MB 400-418794/4     | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 400-418794/1002 | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| 400-161337-A-5 MS   | Matrix Spike           | Total/NA  | Water  | 8260C  |            |
| 400-161337-A-5 MSD  | Matrix Spike Duplicate | Total/NA  | Water  | 8260C  |            |

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

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

Lab Sample ID: MB 400-418711/4

Matrix: Water

Analysis Batch: 418711

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB<br>Result | MB<br>Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------------|-----------------|-----|------|---|----------|----------------|---------|
| Benzene        | <1.0         |                 | 1.0 | ug/L |   |          | 11/07/18 16:59 | 1       |
| Toluene        | <1.0         |                 | 1.0 | ug/L |   |          | 11/07/18 16:59 | 1       |
| Ethylbenzene   | <1.0         |                 | 1.0 | ug/L |   |          | 11/07/18 16:59 | 1       |
| Xylenes, Total | <10          |                 | 10  | ug/L |   |          | 11/07/18 16:59 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene         | 102             |                 | 78 - 118 |          | 11/07/18 16:59 | 1       |
| Dibromofluoromethane         | 101             |                 | 81 - 121 |          | 11/07/18 16:59 | 1       |
| Toluene-d8 (Surr)            | 104             |                 | 80 - 120 |          | 11/07/18 16:59 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 115             |                 | 67 - 134 |          | 11/07/18 16:59 | 1       |

Lab Sample ID: LCS 400-418711/1002

Matrix: Water

Analysis Batch: 418711

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|----------------|---------------|------------------|------|---|------|-----------------|
| Benzene        | 50.0           | 54.3          |                  | ug/L |   | 109  | 70 - 130        |
| Toluene        | 50.0           | 55.3          |                  | ug/L |   | 111  | 70 - 130        |
| Ethylbenzene   | 50.0           | 56.7          |                  | ug/L |   | 113  | 70 - 130        |
| Xylenes, Total | 100            | 112           |                  | ug/L |   | 112  | 70 - 130        |

| Surrogate                    | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|------------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene         | 104              |                  | 78 - 118 |
| Dibromofluoromethane         | 103              |                  | 81 - 121 |
| Toluene-d8 (Surr)            | 104              |                  | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 112              |                  | 67 - 134 |

Lab Sample ID: 400-161559-2 MS

Matrix: Water

Analysis Batch: 418711

Client Sample ID: MW-2

Prep Type: Total/NA

| Analyte        | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Benzene        | 130              | F2 F1               | 50.0           | 179          |                 | ug/L |   | 90   | 56 - 142        |
| Toluene        | 25               | F2 F1               | 50.0           | 75.4         |                 | ug/L |   | 101  | 65 - 130        |
| Ethylbenzene   | <1.0             |                     | 50.0           | 51.8         |                 | ug/L |   | 104  | 58 - 131        |
| Xylenes, Total | 13               |                     | 100            | 117          |                 | ug/L |   | 103  | 59 - 130        |

| Surrogate                    | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|------------------------------|-----------------|-----------------|----------|
| 4-Bromofluorobenzene         | 104             |                 | 78 - 118 |
| Dibromofluoromethane         | 102             |                 | 81 - 121 |
| Toluene-d8 (Surr)            | 105             |                 | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 111             |                 | 67 - 134 |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

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

Lab Sample ID: 400-161559-2 MSD

Matrix: Water

Analysis Batch: 418711

Client Sample ID: MW-2

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Benzene        | 130           | F2 F1            | 50.0        | 52.8       | F2 F1         | ug/L |   | -162 | 56 - 142     | 109 | 30        |
| Toluene        | 25            | F2 F1            | 50.0        | 55.1       | F2 F1         | ug/L |   | 61   | 65 - 130     | 31  | 30        |
| Ethylbenzene   | <1.0          |                  | 50.0        | 55.5       |               | ug/L |   | 111  | 58 - 131     | 7   | 30        |
| Xylenes, Total | 13            |                  | 100         | 108        |               | ug/L |   | 95   | 59 - 130     | 8   | 30        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene         | 105           |               | 78 - 118 |
| Dibromofluoromethane         | 101           |               | 81 - 121 |
| Toluene-d8 (Surr)            | 106           |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 107           |               | 67 - 134 |

Lab Sample ID: MB 400-418794/4

Matrix: Water

Analysis Batch: 418794

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte        | MB Result | MB Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-----|------|---|----------|----------------|---------|
| Benzene        | <1.0      |              | 1.0 | ug/L |   |          | 11/08/18 10:12 | 1       |
| Toluene        | <1.0      |              | 1.0 | ug/L |   |          | 11/08/18 10:12 | 1       |
| Ethylbenzene   | <1.0      |              | 1.0 | ug/L |   |          | 11/08/18 10:12 | 1       |
| Xylenes, Total | <10       |              | 10  | ug/L |   |          | 11/08/18 10:12 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene         | 101          |              | 78 - 118 |          | 11/08/18 10:12 | 1       |
| Dibromofluoromethane         | 102          |              | 81 - 121 |          | 11/08/18 10:12 | 1       |
| Toluene-d8 (Surr)            | 96           |              | 80 - 120 |          | 11/08/18 10:12 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 103          |              | 67 - 134 |          | 11/08/18 10:12 | 1       |

Lab Sample ID: LCS 400-418794/1002

Matrix: Water

Analysis Batch: 418794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|------|---|------|--------------|
| Benzene        | 50.0        | 56.2       |               | ug/L |   | 112  | 70 - 130     |
| Toluene        | 50.0        | 55.5       |               | ug/L |   | 111  | 70 - 130     |
| Ethylbenzene   | 50.0        | 56.7       |               | ug/L |   | 113  | 70 - 130     |
| Xylenes, Total | 100         | 113        |               | ug/L |   | 113  | 70 - 130     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene         | 98            |               | 78 - 118 |
| Dibromofluoromethane         | 104           |               | 81 - 121 |
| Toluene-d8 (Surr)            | 99            |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 102           |               | 67 - 134 |

TestAmerica Pensacola

# QC Sample Results

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

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

Lab Sample ID: 400-161337-A-5 MS

Matrix: Water

Analysis Batch: 418794

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Benzene        | <1.0          |                  | 50.0        | 49.7      |              | ug/L |   | 99   | 56 - 142     |
| Toluene        | <1.0          |                  | 50.0        | 45.4      |              | ug/L |   | 91   | 65 - 130     |
| Ethylbenzene   | <1.0          |                  | 50.0        | 43.3      |              | ug/L |   | 87   | 58 - 131     |
| Xylenes, Total | <10           |                  | 100         | 87.4      |              | ug/L |   | 87   | 59 - 130     |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene         | 99           |              | 78 - 118 |
| Dibromofluoromethane         | 103          |              | 81 - 121 |
| Toluene-d8 (Surr)            | 98           |              | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 100          |              | 67 - 134 |

Lab Sample ID: 400-161337-A-5 MSD

Matrix: Water

Analysis Batch: 418794

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Benzene        | <1.0          |                  | 50.0        | 47.3       |               | ug/L |   | 95   | 56 - 142     | 5   | 30        |
| Toluene        | <1.0          |                  | 50.0        | 44.7       |               | ug/L |   | 89   | 65 - 130     | 2   | 30        |
| Ethylbenzene   | <1.0          |                  | 50.0        | 42.1       |               | ug/L |   | 84   | 58 - 131     | 3   | 30        |
| Xylenes, Total | <10           |                  | 100         | 84.2       |               | ug/L |   | 84   | 59 - 130     | 4   | 30        |

| Surrogate                    | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene         | 99            |               | 78 - 118 |
| Dibromofluoromethane         | 103           |               | 81 - 121 |
| Toluene-d8 (Surr)            | 101           |               | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 97            |               | 67 - 134 |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

## Client Sample ID: MW-1

Date Collected: 11/01/18 14:00

Date Received: 11/03/18 08:15

## Lab Sample ID: 400-161559-1

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                  | DL  | 5          | 5 mL           | 5 mL         | 418794       | 11/08/18 11:02       | BSW     | TAL PEN |
|           |            | Instrument ID: CH_WASP |     |            |                |              |              |                      |         |         |
| Total/NA  | Analysis   | 8260C                  |     | 2          | 5 mL           | 5 mL         | 418711       | 11/07/18 23:04       | BSW     | TAL PEN |
|           |            | Instrument ID: Tesla   |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-2

Date Collected: 11/01/18 14:30

Date Received: 11/03/18 08:15

## Lab Sample ID: 400-161559-2

Matrix: Water

| Prep Type | Batch Type | Batch Method         | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C                |     | 1          | 5 mL           | 5 mL         | 418711       | 11/07/18 17:28       | BSW     | TAL PEN |
|           |            | Instrument ID: Tesla |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-3

Date Collected: 11/01/18 14:10

Date Received: 11/03/18 08:15

## Lab Sample ID: 400-161559-3

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         | 418711       | 11/07/18 19:53       | BSW     | TAL PEN |
|           |            | Instrument ID: Tesla |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-4

Date Collected: 11/01/18 13:30

Date Received: 11/03/18 08:15

## Lab Sample ID: 400-161559-4

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         | 418711       | 11/07/18 20:17       | BSW     | TAL PEN |
|           |            | Instrument ID: Tesla |     |            |                |              |              |                      |         |         |

## Client Sample ID: MW-5

Date Collected: 11/01/18 14:20

Date Received: 11/03/18 08:15

## Lab Sample ID: 400-161559-5

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                  | DL  | 10         | 5 mL           | 5 mL         | 418794       | 11/08/18 11:27       | BSW     | TAL PEN |
|           |            | Instrument ID: CH_WASP |     |            |                |              |              |                      |         |         |
| Total/NA  | Analysis   | 8260C                  |     | 2          | 5 mL           | 5 mL         | 418711       | 11/07/18 23:28       | BSW     | TAL PEN |
|           |            | Instrument ID: Tesla   |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: MW-7**

**Date Collected: 11/01/18 13:35**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-6**

**Matrix: Water**

| Prep Type            | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA             | Analysis   | 8260C        |     | 1          | 5 mL           | 5 mL         | 418711       | 11/07/18 20:41       | BSW     | TAL PEN |
| Instrument ID: Tesla |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-8**

**Date Collected: 11/01/18 13:40**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-7**

**Matrix: Water**

| Prep Type            | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA             | Analysis   | 8260C        |     | 1          | 5 mL           | 5 mL         | 418711       | 11/07/18 21:05       | BSW     | TAL PEN |
| Instrument ID: Tesla |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-9**

**Date Collected: 11/01/18 13:50**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-8**

**Matrix: Water**

| Prep Type            | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA             | Analysis   | 8260C        |     | 1          | 5 mL           | 5 mL         | 418711       | 11/07/18 21:29       | BSW     | TAL PEN |
| Instrument ID: Tesla |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: MW-10**

**Date Collected: 11/01/18 13:55**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-9**

**Matrix: Water**

| Prep Type            | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA             | Analysis   | 8260C        |     | 1          | 5 mL           | 5 mL         | 418711       | 11/07/18 21:53       | BSW     | TAL PEN |
| Instrument ID: Tesla |            |              |     |            |                |              |              |                      |         |         |

**Client Sample ID: DUP-01**

**Date Collected: 11/01/18 12:05**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-10**

**Matrix: Water**

| Prep Type              | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|------------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA               | Analysis   | 8260C        | DL  | 10         | 5 mL           | 5 mL         | 418794       | 11/08/18 11:52       | BSW     | TAL PEN |
| Instrument ID: CH_WASP |            |              |     |            |                |              |              |                      |         |         |
| Total/NA               | Analysis   | 8260C        |     | 2          | 5 mL           | 5 mL         | 418711       | 11/07/18 23:52       | BSW     | TAL PEN |
| Instrument ID: Tesla   |            |              |     |            |                |              |              |                      |         |         |

TestAmerica Pensacola

# Lab Chronicle

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

**Client Sample ID: TB-01**

**Date Collected: 11/01/18 12:00**

**Date Received: 11/03/18 08:15**

**Lab Sample ID: 400-161559-11**

**Matrix: Water**

| Prep Type            | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|----------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA             | Analysis   | 8260C        |     | 1          | 5 mL           | 5 mL         | 418711       | 11/07/18 19:05       | BSW     | TAL PEN |
| Instrument ID: Tesla |            |              |     |            |                |              |              |                      |         |         |

## Laboratory References:

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

# Accreditation/Certification Summary

Client: Stantec Consulting Services Inc  
Project/Site: EIPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

## Laboratory: TestAmerica Pensacola

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

| Authority              | Program       | EPA Region | Identification Number | Expiration Date |
|------------------------|---------------|------------|-----------------------|-----------------|
| Alabama                | State Program | 4          | 40150                 | 06-30-19        |
| ANAB                   | ISO/IEC 17025 |            | L2471                 | 02-22-20        |
| Arizona                | State Program | 9          | AZ0710                | 01-12-19        |
| Arkansas DEQ           | State Program | 6          | 88-0689               | 09-01-19        |
| California             | State Program | 9          | 2510                  | 06-30-19        |
| Florida                | NELAP         | 4          | E81010                | 06-30-19        |
| Georgia                | State Program | 4          | E81010 (FL)           | 06-30-19        |
| Illinois               | NELAP         | 5          | 200041                | 10-09-19        |
| Iowa                   | State Program | 7          | 367                   | 08-01-20        |
| Kansas                 | NELAP         | 7          | E-10253               | 10-31-18 *      |
| Kentucky (UST)         | State Program | 4          | 53                    | 06-30-19        |
| Kentucky (WW)          | State Program | 4          | 98030                 | 12-31-18        |
| Louisiana              | NELAP         | 6          | 30976                 | 06-30-19        |
| Louisiana (DW)         | NELAP         | 6          | LA180023              | 12-31-18        |
| Maryland               | State Program | 3          | 233                   | 09-30-19        |
| Massachusetts          | State Program | 1          | M-FL094               | 06-30-19        |
| Michigan               | State Program | 5          | 9912                  | 06-30-19        |
| New Jersey             | NELAP         | 2          | FL006                 | 06-30-19        |
| North Carolina (WW/SW) | State Program | 4          | 314                   | 12-31-18        |
| Oklahoma               | State Program | 6          | 9810                  | 08-31-19        |
| Pennsylvania           | NELAP         | 3          | 68-00467              | 01-31-19        |
| Rhode Island           | State Program | 1          | LAO00307              | 12-30-18        |
| South Carolina         | State Program | 4          | 96026                 | 06-30-19        |
| Tennessee              | State Program | 4          | TN02907               | 06-30-19        |
| Texas                  | NELAP         | 6          | T104704286-18-16      | 09-30-19        |
| US Fish & Wildlife     | Federal       |            | LE058448-0            | 07-31-19        |
| USDA                   | Federal       |            | P330-18-00148         | 05-17-21        |
| Virginia               | NELAP         | 3          | 460166                | 06-14-19        |
| Washington             | State Program | 10         | C915                  | 05-15-19        |
| West Virginia DEP      | State Program | 3          | 136                   | 06-30-19        |

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

TestAmerica Pensacola

## Method Summary

Client: Stantec Consulting Services Inc  
Project/Site: ElPaso CGP Company, LLC - Lat L40

TestAmerica Job ID: 400-161559-1

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

### Protocol References:

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

### Laboratory References:

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



## Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 400-161559-1

**Login Number: 161559**

**List Source: TestAmerica Pensacola**

**List Number: 1**

**Creator: Conrady, Hank W**

| Question                                                                                 | Answer | Comment    |
|------------------------------------------------------------------------------------------|--------|------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |            |
| The cooler's custody seal, if present, is intact.                                        | True   |            |
| Sample custody seals, if present, are intact.                                            | N/A    |            |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |            |
| Samples were received on ice.                                                            | True   |            |
| Cooler Temperature is acceptable.                                                        | True   |            |
| Cooler Temperature is recorded.                                                          | True   | 3.0°C IR-7 |
| 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 $<6\text{mm}$ (1/4"). | True   |            |
| Multiphasic samples are not present.                                                     | True   |            |
| Samples do not require splitting or compositing.                                         | True   |            |
| Residual Chlorine Checked.                                                               | N/A    |            |