

# PROJECT UPDATE SUMMARY AND REVISED REMEDATION WORK PLAN

Buffalo Valley Compressor Station  
Chaves County, New Mexico  
RP #2RP-3817

Prepared for:



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## 1. INTRODUCTION

Tasman Geosciences, Inc. (Tasman) has prepared this Revised Remediation Work Plan on behalf of DCP Midstream, LP (DCP) to document and present the results of field activities that were conducted at the Buffalo Valley Compressor Station (Site) with associated RP number 2RP-3817 located in Chaves County, New Mexico (Figure 1). The Site is located in New Mexico Oil Conservation Division (OCD) District 2, Unit O (Southwest Quarter of the Southeast Quarter of Section 1, Township 15 South, Range 27 East of the Sixth Principal Meridian [Figure 1]). The facility geographic coordinates are 33.038843 degrees north and -104.187643 degrees west. The Site occupies approximately 4.4 acres of land that is leased to DCP from the State of New Mexico.

The activities described in the following Sections were conducted in accordance with the Site Characterization Report (SCR) that was submitted to the New Mexico Oil and Gas Conservation Division (NMOCD) on October 4, 2016 and to the New Mexico State Land Office (NMSLO) on November 29, 2016. Additionally, proposed supplemental Site remediation, reclamation, and revegetation activities are discussed herein.

## 2. SITE REMEDIATION ACTIVITIES

The sub-Sections below detail the Site remediation activities that were performed including impacted soil excavation and ex-situ soil treatment.

### 2.1 Impacted Soil Excavation

Subsequent to the Buffalo Compressor Station decommissioning activities and equipment demolition and removal, investigation potholing was conducted throughout the Site to determine the lateral and vertical extents of petroleum hydrocarbon impacts. During potholing activities the soil was periodically field screened for volatile organic compounds (VOC) using a photoionization detector (PID) and traditional headspace soil sampling techniques. On November 2, 2016, excavation activities were initiated based on the results of the Site characterization and the potholing activities described above. Excavation activities were guided using PID analysis and confirmation soil samples were collected from the sidewalls and the base of the excavation at approximate 20 foot intervals. Four (4) separate excavations were performed on-Site as summarized below:

- North Excavation: Approximately 1,225 cubic yards (yd<sup>3</sup>) of impacted soil above NMOCD Action Levels was removed from the north excavation area. The north excavation sidewall and base confirmation soil sample locations as well as the PID and laboratory analytical results are displayed on Figures 2 and 3 and summarized on Table 1.
- South Excavation: Approximately 1,400 yd<sup>3</sup> of impacted soil above NMOCD Action Levels was removed from the south excavation area. The south excavation sidewall and base confirmation

soil sample locations as well as the PID and laboratory analytical results are displayed on Figure 4 and summarized on Table 2.

- West Excavations: Two excavations were conducted within the west portion of the Site, one beneath the former slop tank area and one within the location of the BH03 investigation borehole described in the SCR. A total volume of approximately 500 yd<sup>3</sup> of impacted soil above NMOCD Action Levels was removed from the west excavations. The sidewall and base confirmation soil sample locations as well as the PID and laboratory analytical results are displayed on Figure 5 and summarized on Table 3.

For ease of data management and reporting, only the laboratory analytical data for soil samples that were collected from the final extents of the excavations have been provided in this report. Areas with sidewall and/or base samples that were returned above NMOCD Action Levels were subsequently excavated. Therefore, the laboratory analytical data for those samples have not been summarized. The confirmation sidewall and base soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using United States Environmental Protection Agency (USEPA) Method 8021B and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using USEPA Method 8015M. The laboratory analytical reports from the final extent sidewall and base confirmation soil sample locations are included in Appendix A.

## 2.2 Ex-Situ Soil Treatment

As indicated above, a project total of approximately 3,125 yd<sup>3</sup> of material was excavated for subsequent treatment. Ex-situ chemical oxidant (chemox) soil mixing activities were conducted on the impacted soil using a proprietary ratio of oxidant. The treated material was allowed a minimum 48-hour period subsequent to mixing activities and prior to collection of confirmation analytical soil samples. Confirmation soil samples using a minimum five point composite sampling method were collected from every 100 yd<sup>3</sup> of soil treated with the chemox solution. Based on the soil sample analytical data, 1,500 yd<sup>3</sup> of treated material was verified to be below NMOCD Action Levels and the soil has been separated and prepared to be used as backfill material. The confirmation soil sample laboratory analytical results from the 1,500 yd<sup>3</sup> that were verified below NMOCD Action Levels are summarized on Table 4. The sample labeled as a re-sample was collected subsequent to additional treatment activities on that 100 yd<sup>3</sup> stockpile.

Additional chemox soil mixing activities using a stronger oxidant solution was conducted on the remaining 1,625 yd<sup>3</sup> of impacted material. That soil was then resampled per the 100 yd<sup>3</sup> composite method and the laboratory analytical data for those samples are summarized on Table 5. As summarized on Table 5, the remaining 1,625 yd<sup>3</sup> continued to slightly exceed the NMOCD Action Levels for TPH. The material has been prepared on-Site for additional ex-situ treatment activities as described in the following Section. The laboratory analytical reports for the confirmation soil samples from the treated material is included in Appendix B.

### **3. PROPOSED SUPPLEMENTAL REMEDIATION ACTIVITIES**

Recommendations for remediation activities of the remaining soil that is slightly above the NMOCD Action Levels for TPH have been developed based on the data provided herein. Due to the characteristics of the remaining soil impacts and that DRO is the main constituent of concern, ex-situ soil mixing using a bio-remediation solution has been chosen as the preferred supplemental remedial alternative. Bio-remediation soil mixing is a proven, cost-effective method with a minimal footprint that is ideally suited to addressing the remaining TPH concentrations within the soil and consists of physically mixing impacted soil with a dilute solution of Microblaze Emergency Spill Liquid Control™.

Similar to the chemox mixing activities that have already been completed on-Site, bio-remediation treatment results equal to those of excavation and off-site disposal are achieved, with the elimination of haul trucks, disposal material, imported backfill, and the associated traffic hazards, road damage, and resource consumption. However, the bio-remediation treatment process requires a minimum treatment period of approximately one month, during which time the soil will be periodically moistened with clean water and plowed and tilled to enhance microbial degradation of petroleum hydrocarbon impacts within the soil matrix. Subsequent to the treatment period, confirmation soil samples with a minimum five point composite sampling method will be collected for every 100 yd<sup>3</sup> of soil that has been treated with the bio-remediation solution.

### **4. PROPOSED SITE RECLAMATION AND REVEGETATION PLAN**

In accordance with the NMSLO Surface Reclamation and Remediation guidance document, Tasman on behalf of DCP is providing the following proposed Site reclamation activities in order to achieve native plant growth and diversity levels equal to or exceeding the natural potential levels in undisturbed soils adjacent to the project area. Once the soil cleanup goals for the Site have been confirmed and backfilling activities have been approved, Tasman will amend the backfill material with a sufficient amount of organic topsoil and fertilizer to promote seed germination and growth.

Subsequent to backfilling and soil amendment activities, the Site will be recontoured to as near the original topography as possible and the topsoil will be ripped to approximately 16 inches below ground surface (bgs). The seed and fertilizer mix will then be applied together by broadcasting with a seed spreader, then harrowed using seed drilling methods. Appropriate measures will be taken to ensure that the seed and fertilizer mixture is evenly and uniformly planted.

Primary or secondary noxious weeds as identified by the United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Plant Database will not be present within the proposed seed mixture. The seed mixture will either be certified or registered and will have been tested for viability and purity in accordance with applicable State law(s) within nine months prior to purchase. The following seed mixture is proposed for the Site:

<u>COMMON NAME</u>	<u>BOTANICAL NAME</u>	<u>PLS/ACRE</u>
Sideoats Grama	<i>Bouteloua curtipendula</i>	4.00
Sand Dropseed	<i>Sporobolus cryptandrus</i>	0.50
Blue Grama	<i>Bouteloua gracilis</i>	1.50
Plains Bristlegrass	<i>Setaria vulpiseta</i>	2.00
Four-Wing Saltbush	<i>Atriplex canescens</i>	0.50
Rubber Rabbit Brush	<i>Ericameria nauseosa</i>	0.50

Tasman will perform reseeding activities immediately after completing the soil remediation and backfilling activities described in the previous Sections. The seeding may be repeated at the end of the first growing season to help establish growth through the following winter months. During the growing season Tasman will monitor the Site for plant and noxious weed growth and will document these activities with photographs and field notes. Any noxious weeds that are observed on-Site will be treated by physically removing the weeds and/or herbicide treatment. The primary and secondary noxious weeds of concern are identified on the USDA-NRCS New Mexico State-listed Noxious Weeds list which is included in Appendix C.

## Tables

**TABLE 1**  
**DCP BUFFALO VALLEY COMPRESSOR STATION**  
**NORTH EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH <sup>(2)</sup> GRO/DRO (mg/kg)
SS01 @ 3'	11/2/2016	3.0	3.2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS02 @ 3'	11/2/2016	3.0	78.1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS03 @ 3'	11/2/2016	3.0	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS04 @ 3'	11/4/2016	3.0	29.1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS05 @ 4'	11/4/2016	4.0	8.7	<0.050	<0.050	<0.050	0.1890	<0.300	<10.0	<10.0	<10.0
SS06 @ 4'	11/4/2016	4.0	5.1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS07 @ 3'	11/4/2016	3.0	21	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS08 @ 3'	11/4/2016	3.0	7.3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS09 @ 3'	11/4/2016	3.0	6.6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS10 @ 3'	11/4/2016	3.0	1.2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS12 @ 3'	11/6/2016	3.0	49.7	<0.050	0.340	<0.050	<0.150	0.340	<10.0	19.7	19.7
SS13 @ 3'	11/6/2016	4.0	83.9	<0.200	11.5	0.200	0.945	12.6	12.6	25	53.2
SS27 @ 4'	11/17/2016	3.0	31	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS39 @ 3'	11/21/2016	3.0	64.5	<0.050	0.643	<0.050	<0.150	0.766	<10.0	<10.0	<10.0
SS48 @ 3'	2/7/2017	3.0	33.6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84.7	84.7
SS49 @ 3'	2/7/2017	3.0	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS01 @ 4'	11/6/2016	4.0	4.7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS02 @ 4'	11/6/2016	4.0	6.6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS04 @ 4'	11/6/2016	4.0	5.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS06 @ 5'	11/6/2016	5.0	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS10 @ 4'	11/6/2016	4.0	15.2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS12 @ 6'	11/6/2016	6.0	224.1	<0.050	0.062	0.054	0.262	0.378	<10.0	<10.0	<10.0

**TABLE 1**  
**DCP BUFFALO VALLEY COMPRESSOR STATION**  
**NORTH EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH <sup>(2)</sup> GRO/DRO (mg/kg)
BS14 @ 4.5'	11/8/2016	4.5	6.6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS18 @ 6.5'	11/9/2016	6.5	59	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS19 @ 6.5'	11/9/2016	6.5	104.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS24 @ 4.5'	11/9/2016	4.5	11.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.5	10.5
BS25 @ 6.5'	11/15/2016	6.5	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.5	17.5
BS39 @ 4'	11/21/2016	4.0	25.7	<0.050	<0.050	<0.050	0.188	<0.300	<10.0	64.4	64.4
BS41 @ 5.5'	2/7/2017	5.5	2.6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	72.5	72.5
BS42 @ 5.5'	2/7/2017	5.5	1.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.8	20.8
BS43 @ 4.5'	2/7/2017	4.5	1.7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS44 @ 4.5'	2/7/2017	4.5	23.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS45 @ 4.5'	2/7/2017	4.5	16.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
<b>NMOCD Action Levels - Soil (mg/kg) <sup>(1)</sup></b>				<b>10</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>50</b>	<b>NA</b>	<b>NA</b>	<b>100</b>

Notes:

1). Standards for Soil are taken from NMOCD Guidelines for Remediation of Leaks, Spills and Releases, 1993, total ranking >19

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

**Bold** indicates concentration exceeds NMOCD Action Levels.

GRO - Gasoline range organics.

DRO - Diesel range organics.

mg/kg= Milligrams per kilogram.

bgs - Below ground surface.

ppm - Parts per million

NA - Not applicable

**TABLE 2  
DCP BUFFALO VALLEY COMPRESSOR STATION  
SOUTH EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH <sup>(2)</sup> GRO/DRO (mg/kg)
SS15 @ 3'	11/15/2016	3.0	6.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS16 @ 8'	11/15/2016	8.0	60.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS17 @ 3'	11/15/2016	3.0	4.7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS18 @ 3'	11/15/2016	3.0	5.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS19 @ 3'	11/15/2016	3.0	8.3	<0.050	<0.050	<0.050	0.1890	<0.300	<10.0	<10.0	<10.0
SS20 @ 3'	11/15/2016	3.0	12.9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS21 @ 3'	11/15/2016	3.0	7.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS22 @ 3'	11/15/2016	3.0	139.8	<0.050	<0.050	0.080	<0.150	<0.300	<10.0	<10.0	<10.0
SS23 @ 3'	11/15/2016	3.0	6.7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.5	30.5
SS24 @ 3'	11/17/2016	3.0	117.5	0.056	1.11	1.38	7.58	10.1	35.9	33.4	69.3
SS25 @ 3'	11/17/2016	3.0	3.3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS26 @ 3'	11/17/2016	3.0	2.1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS33 @ 4'	11/17/2016	4.0	20.3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS37 @ 3'	11/21/2016	3.0	7.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS38 @ 3'	11/21/2016	3.0	139	0.559	<0.050	<0.050	<0.150	0.744	<10.0	<10.0	<10.0
BS26 @ 13'	11/15/2016	13.0	11.3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS27 @ 4'	11/15/2016	4.0	8.3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS28 @ 4'	11/15/2016	4.0	24.2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS29 @ 4'	11/15/2016	4.0	37.1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS30 @ 4'	11/15/2016	4.0	56.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.3	11.3
BS31 @ 8'	11/16/2016	8.0	39	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS32 @ 4'	11/16/2016	4.0	6.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

**TABLE 2**  
**DCP BUFFALO VALLEY COMPRESSOR STATION**  
**SOUTH EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH <sup>(2)</sup> GRO/DRO (mg/kg)
BS33 @ 6'	11/17/2016	6.0	91.5	0.655	<0.050	0.132	<0.150	0.787	<10.0	13.1	13.1
<b>NMOCD Action Levels - Soil (mg/kg) <sup>(1)</sup></b>				<b>10</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>50</b>	<b>NA</b>	<b>NA</b>	<b>100</b>

Notes:

1). Standards for Soil are taken from NMOCD Guidelines for Remediation of Leaks, Spills and Releases, 1993, total ranking >19

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

**Bold** indicates concentration exceeds NMOCD Action Levels.

GRO - Gasoline range organics.                      DRO - Diesel range organics.  
mg/kg= Milligrams per kilogram.                      bgs - Below ground surface.  
ppm - Parts per million                                      NA - Not applicable

**TABLE 3**  
**DCP BUFFALO VALLEY COMPRESSOR STATION**  
**WEST EXCAVATIONS SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE**

Sample ID	Date Sampled	Depth (Feet bgs)	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH <sup>(2)</sup> GRO/DRO (mg/kg)
SS29 @ 3'	11/17/2016	3.0	1.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS30 @ 3'	11/17/2016	3.0	96.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS31 @ 3'	11/17/2016	3.0	6.8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS32 @ 3'	11/17/2016	3.0	3.9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SS43 @ 4'	11/30/2016	4.0	54.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.700	78.70
SS44 @ 4'	12/2/2016	4.0	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24	24
SS45 @ 4'	12/2/2016	4.0	11.3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.50	98.50
SS47 @ 4'	12/7/2016	4.0	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS35 @ 6'	11/17/2016	6.0	21.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS36 @ 6'	11/17/2016	6.0	5.4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
BS40 @ 6'	11/30/2016	6.0	103.3	<0.050	0.0610	<0.050	0.2060	<0.300	<10.0	66.700	66.70
<b>NMOCD Action Levels - Soil (mg/kg) <sup>(1)</sup></b>				<b>10</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>50</b>	<b>NA</b>	<b>NA</b>	<b>100</b>

Notes:

- 1). Standards for Soil are taken from NMOCD Guidelines for Remediation of Leaks, Spills and Releases, 1993, total ranking >19
- 2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

**Bold** indicates concentration exceeds NMOCD Action Levels.

GRO - Gasoline range organics.  
mg/kg= Milligrams per kilogram.  
ppm - Parts per million

DRO - Diesel range organics.  
bgs - Below ground surface.  
NA - Not applicable

**TABLE 4**  
**DCP BUFFALO VALLEY COMPRESSOR STATION**  
**TREATED SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE - 1,500 CUBIC YARDS BELOW ACTION LEVELS**

Sample ID	Date Sampled	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH <sup>(2)</sup> GRO/DRO (mg/kg)
CS04	11/14/2016	2,990	0.353	6.98	5.83	35.1	48.3	62.7	30.9	93.6
CS05	11/14/2016	2,703	0.239	5.23	4.52	25.6	35.5	41.9	24.4	66.3
CS06 Resample	11/14/2016	3,676	0.088	2.40	2.85	21.5	26.9	56.4	42.6	99.0
CS13	11/17/2016	91	<0.050	<0.050	0.078	0.345	0.423	<10.0	<10.0	<10.0
CS14	11/17/2016	37.5	<0.050	<0.050	0.130	0.550	0.679	<10.0	12.3	12.3
CS17	11/18/2016	1,709	0.418	8.38	5.15	32.0	45.9	52.4	22.7	75.1
CS20	12/1/2016	390.9	<0.200	2.61	2.91	16.2	21.7	50.9	39.5	90.4
CS22	12/1/2016	264	<0.200	0.544	1.08	6.35	7.97	16.8	28.6	45.4
CS23	12/1/2016	1,367	<0.200	0.949	1.06	7.23	9.24	18.0	24.7	42.7
CS24	12/1/2016	1,157	<0.200	1.26	1.43	9.79	12.6	42.0	31.4	73.4
CS25	12/1/2016	185	<0.200	0.599	1.06	5.97	7.63	20.6	33.4	54.0
CS26	12/1/2016	319	<0.200	0.646	0.981	5.84	7.46	19.5	25.8	45.3
CS29	12/1/2016	746	<0.200	1.42	1.46	10.0	12.9	27.4	65.1	92.5
CS31	12/1/2016	317	<0.200	1.42	1.53	9.99	12.9	31.2	41.6	72.8
CS32	12/1/2016	739	<0.200	0.276	0.446	2.88	3.60	18.3	17.7	36.0
<b>NMOCD Action Levels - Soil (mg/kg) <sup>(1)</sup></b>			<b>10</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>50</b>	<b>NA</b>	<b>NA</b>	<b>100</b>

Notes:

1). Standards for Soil are taken from NMOCD Guidelines for Remediation of Leaks, Spills and Releases, 1993, total ranking >19

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

**Bold** indicates concentration exceeds NMOCD Action Levels.

GRO - Gasoline range organics.

mg/kg= Milligrams per kilogram.

ppm - Parts per million

**TABLE 5**  
**DCP BUFFALO VALLEY COMPRESSOR STATION**  
**TREATED SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE - 1,600 CUBIC YARDS ABOVE ACTION LEVELS**

Sample ID	Date Sampled	PID Readings (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH <sup>(2)</sup> GRO/DRO (mg/kg)
CS01	12/15/2016	6	<0.050	<0.050	0.093	0.439	0.532	20.5	<b>601.0</b>	<b>621.5</b>
CS02	12/15/2016	0.6	<0.050	<0.050	0.058	0.322	0.38	10.2	<b>810.0</b>	<b>820.2</b>
CS03	12/15/2016	2	<0.050	<0.050	0.085	0.456	0.541	27.1	<b>615</b>	<b>642.1</b>
CS04	12/15/2016	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>685</b>	<b>685</b>
CS05	12/15/2016	0.9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>612</b>	<b>612</b>
CS06	12/15/2016	0.3	<0.050	<0.050	0.063	0.232	<0.300	13.3	<b>576</b>	<b>589.3</b>
CS07	12/15/2016	0.1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>749</b>	<b>749</b>
CS08	12/15/2016	0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>495</b>	<b>495</b>
CS09	12/15/2016	0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>535</b>	<b>535</b>
CS10	12/15/2016	2.1	<0.050	0.08	0.269	1.3	1.64	29.1	<b>643</b>	<b>672.1</b>
CS11	12/15/2016	1.6	<0.050	<0.050	<0.050	0.169	<0.300	14.9	<b>445</b>	<b>459.9</b>
CS12	12/15/2016	2.5	<0.050	<0.050	0.122	0.512	0.634	25.6	<b>471</b>	<b>496.6</b>
CS13	12/15/2016	0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>451</b>	<b>451.0</b>
CS14	12/15/2016	0	<0.050	<0.050	0.052	<0.150	<0.300	<10.0	<b>629</b>	<b>629.0</b>
CS15	12/15/2016	0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>626</b>	<b>626.0</b>
CS16	12/15/2016	0.1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>520</b>	<b>520.0</b>
<b>NMOCD Action Levels - Soil (mg/kg) <sup>(1)</sup></b>			<b>10</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>50</b>	<b>NA</b>	<b>NA</b>	<b>100</b>

Notes:

1). Standards for Soil are taken from NMOCD Guidelines for Remediation of Leaks, Spills and Releases, 1993, total ranking >19

2). TPH - Total volatile and extractable petroleum hydrocarbons. Value calculated by adding GRO and DRO concentrations.

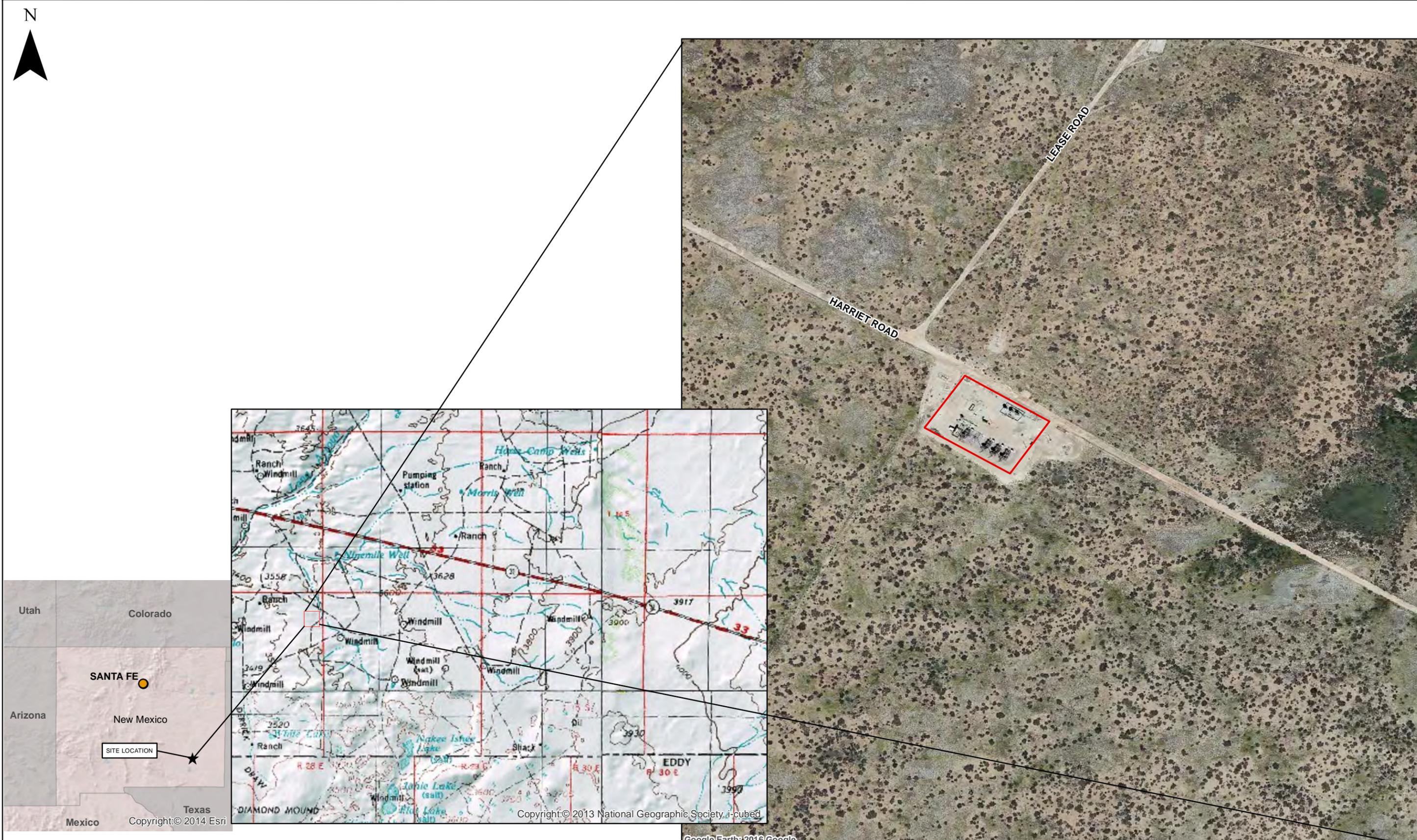
**Bold** indicates concentration exceeds NMOCD Action Levels.

GRO - Gasoline range organics.

mg/kg= Milligrams per kilogram.

ppm - Parts per million

Figures



DATE: August 2016  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: D. Arnold

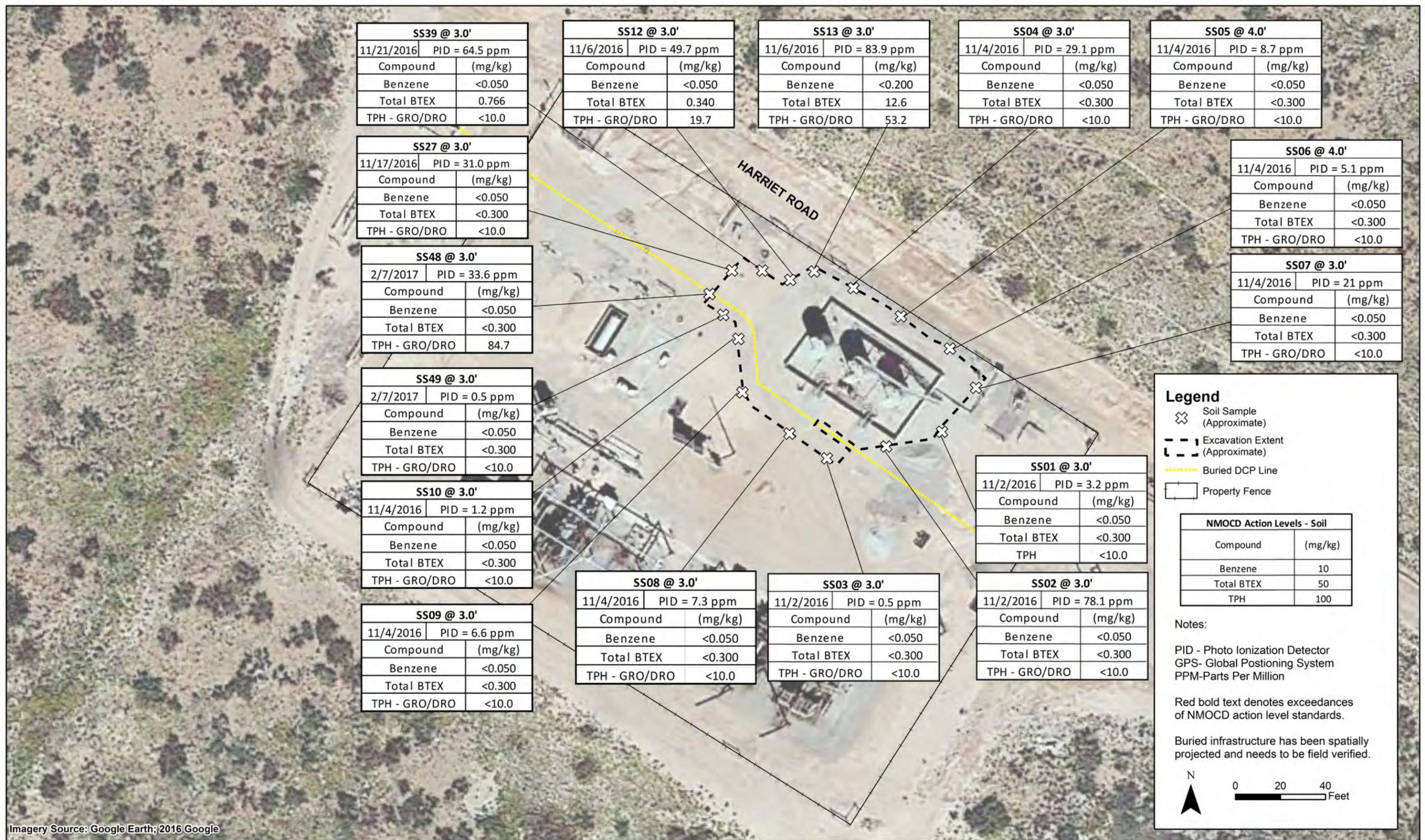


**TASMAN**  
 GEOSCIENCES  
 Tasman Geosciences, Inc.  
 6899 Pecos Street - Unit C  
 Denver, CO 80221

**DCP Midstream**  
**Buffalo Valley Compressor Station**  
 SWSE Section 1, Township 15 South, Range 27 East  
 Chaves County, New Mexico

Site Location  
 Map

Figure  
 1



Imagery Source: Google Earth; 2016 Google

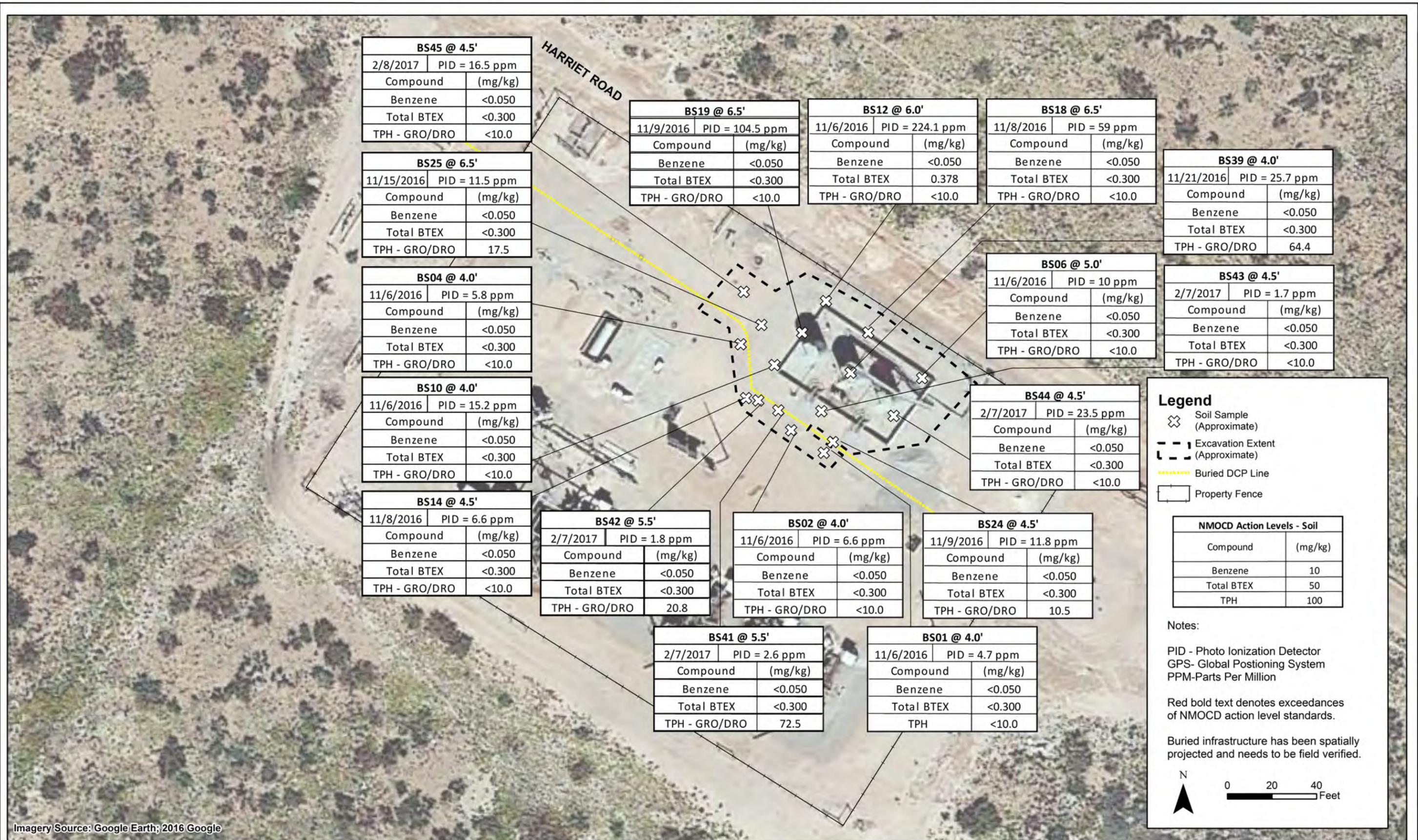
DATE:	February 2017
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold

**TASMAN** Tasman Geosciences, Inc.  
 6899 Pecos Street - Unit C  
 Denver, CO 80221

**DCP Midstream**  
**Buffalo Valley Compressor Station**  
 SWSE Section 1, Township 15 South, Range 27 East  
 Chaves County, New Mexico

North Excavation Soil Sample  
 Analytical Figure

**Figure**  
**2**



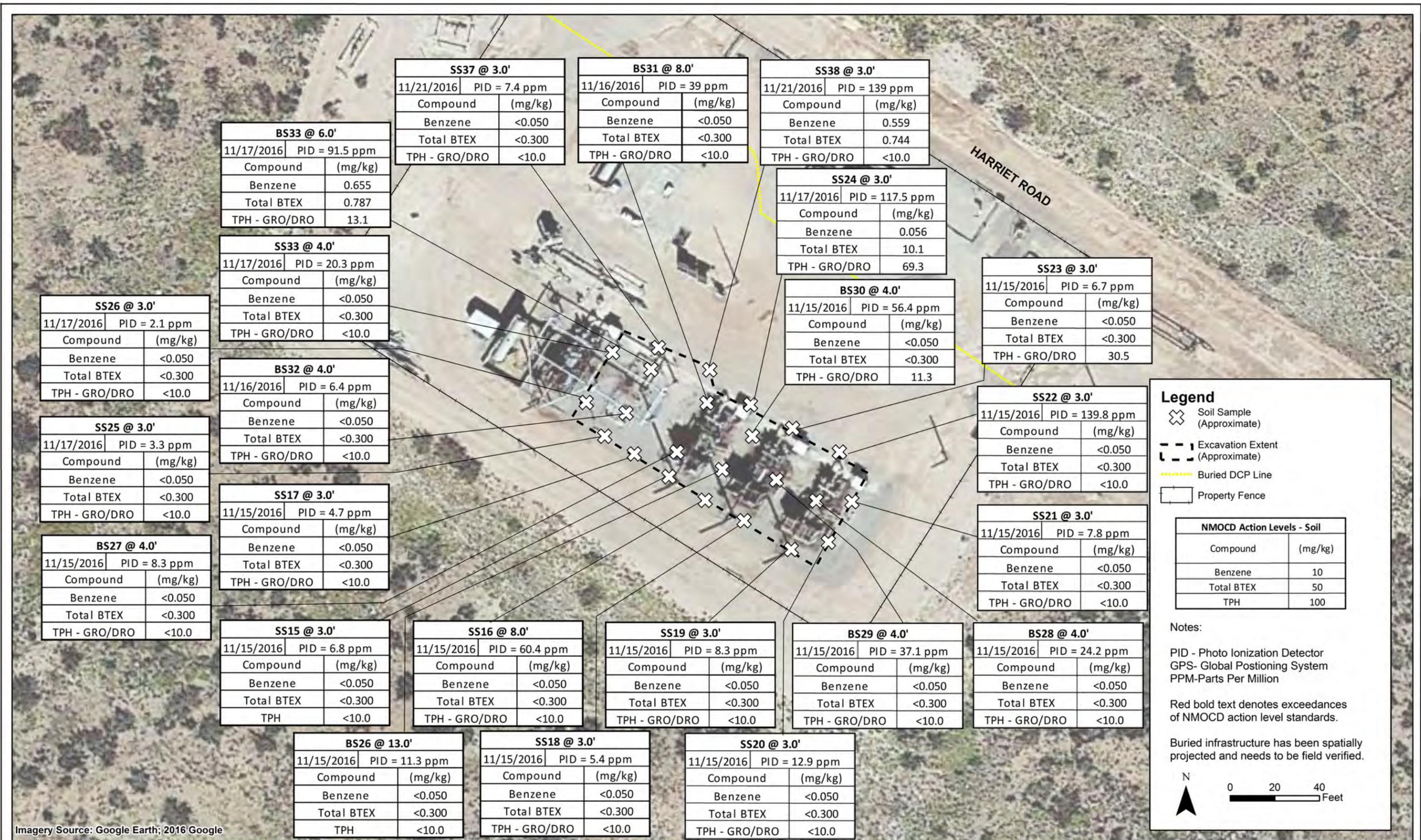
DATE: February 2017  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: D. Arnold



**DCP Midstream**  
**Buffalo Valley Compressor Station**  
 SWSE Section 1, Township 15 South, Range 27 East  
 Chaves County, New Mexico

North Excavation Base Soil  
 Sample Analytical Figure

Figure  
 3



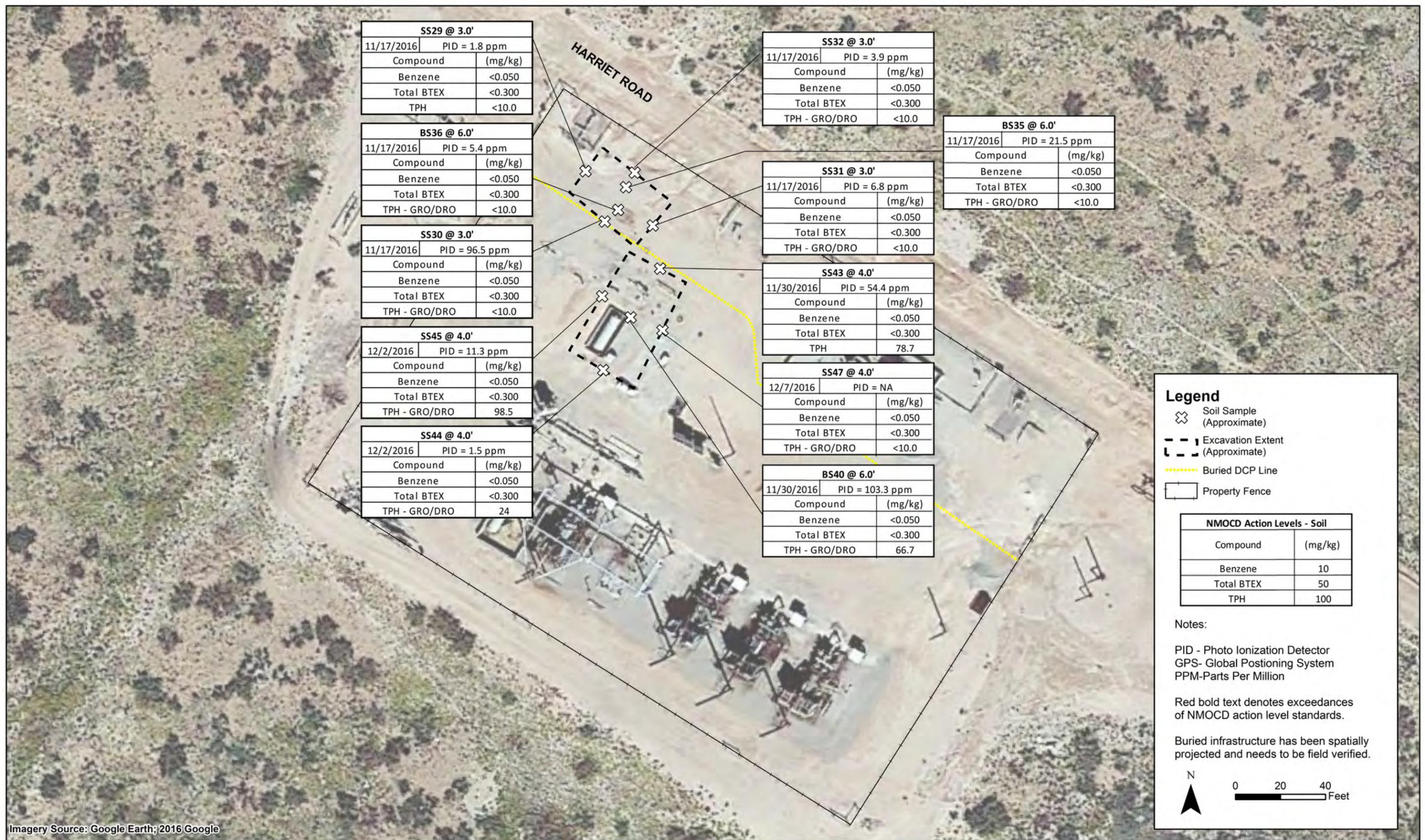
DATE: January 2017  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: D. Arnold



**DCP Midstream**  
**Buffalo Valley Compressor Station**  
 SWSE Section 1, Township 15 South, Range 27 East  
 Chaves County, New Mexico

South Excavation Soil Sample  
 Analytical Figure

Figure  
 4



SS29 @ 3.0'	
11/17/2016	PID = 1.8 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH	<10.0

SS32 @ 3.0'	
11/17/2016	PID = 3.9 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	<10.0

BS35 @ 6.0'	
11/17/2016	PID = 21.5 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	<10.0

BS36 @ 6.0'	
11/17/2016	PID = 5.4 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	<10.0

SS31 @ 3.0'	
11/17/2016	PID = 6.8 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	<10.0

SS30 @ 3.0'	
11/17/2016	PID = 96.5 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	<10.0

SS43 @ 4.0'	
11/30/2016	PID = 54.4 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH	78.7

SS45 @ 4.0'	
12/2/2016	PID = 11.3 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	98.5

SS47 @ 4.0'	
12/7/2016	PID = NA
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	<10.0

SS44 @ 4.0'	
12/2/2016	PID = 1.5 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	24

BS40 @ 6.0'	
11/30/2016	PID = 103.3 ppm
Compound	(mg/kg)
Benzene	<0.050
Total BTEX	<0.300
TPH - GRO/DRO	66.7

**Legend**

- ⊗ Soil Sample (Approximate)
- - - Excavation Extent (Approximate)
- ..... Buried DCP Line
- ▭ Property Fence

NMOCD Action Levels - Soil	
Compound	(mg/kg)
Benzene	10
Total BTEX	50
TPH	100

Notes:

PID - Photo Ionization Detector  
 GPS- Global Positioning System  
 PPM-Parts Per Million

Red bold text denotes exceedances of NMOCD action level standards.

Buried infrastructure has been spatially projected and needs to be field verified.

N  
 0 20 40 Feet

Imagery Source: Google Earth; 2016 Google

DATE: January 2017  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: D. Arnold



**DCP Midstream**  
**Buffalo Valley Compressor Station**  
 SWSE Section 1, Township 15 South, Range 27 East  
 Chaves County, New Mexico

West Excavation Soil Sample  
 Analytical Figure

Figure  
 5

## Appendix A

November 03, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/02/16 18:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/02/2016	Sampling Date:	11/02/2016
Reported:	11/03/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS #01 @ 3' (H602468-01)**

BTEX 8021B		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2016	ND	2.04	102	2.00	0.534		
Toluene*	<0.050	0.050	11/03/2016	ND	2.08	104	2.00	1.03		
Ethylbenzene*	<0.050	0.050	11/03/2016	ND	2.00	100	2.00	0.575		
Total Xylenes*	<0.150	0.150	11/03/2016	ND	6.07	101	6.00	0.611		
Total BTEX	<0.300	0.300	11/03/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.7-146

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/03/2016	ND	200	100	200	0.268		
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65		

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 97.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/02/2016	Sampling Date:	11/02/2016
Reported:	11/03/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS #02 @ 3' (H602468-02)**

BTEX 8021B		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2016	ND	2.04	102	2.00	0.534		
Toluene*	<0.050	0.050	11/03/2016	ND	2.08	104	2.00	1.03		
Ethylbenzene*	<0.050	0.050	11/03/2016	ND	2.00	100	2.00	0.575		
Total Xylenes*	<0.150	0.150	11/03/2016	ND	6.07	101	6.00	0.611		
Total BTEX	<0.300	0.300	11/03/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.7-146

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/03/2016	ND	200	100	200	0.268		
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65		

Surrogate: 1-Chlorooctane 96.0 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/02/2016	Sampling Date:	11/02/2016
Reported:	11/03/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS #03 @ 3' (H602468-03)**

BTEX 8021B		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2016	ND	2.04	102	2.00	0.534		
Toluene*	<0.050	0.050	11/03/2016	ND	2.08	104	2.00	1.03		
Ethylbenzene*	<0.050	0.050	11/03/2016	ND	2.00	100	2.00	0.575		
Total Xylenes*	<0.150	0.150	11/03/2016	ND	6.07	101	6.00	0.611		
Total BTEX	<0.300	0.300	11/03/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.7-146

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/03/2016	ND	200	100	200	0.268		
DRO >C10-C28	<10.0	10.0	11/03/2016	ND	217	108	200	5.65		

Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 83.0 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

RUSH

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### BILL TO

### ANALYSIS REQUEST

Company Name: DCP / Tasman  
 Project Manager: Steve Weathers / Brian Humphrey  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Location: Buttack Valley Compressor Station  
 Sampler Name: Kyle Norman  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H002408</u>	<u>1 SS #01 @ 3ft.</u>	<u>G 1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11-2-16</u>	<u>3:30</u>	<u>TPH</u>				
	<u>2 SS #02 @ 3ft.</u>	<u>G 1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11</u>	<u>3:50</u>	<u>BETEX</u>				
	<u>3 SS #03 @ 3ft.</u>	<u>G 1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11</u>	<u>4:10</u>					

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Relinquished By: [Signature] Date: 11-2-16 Received By: [Signature]  
 Relinquished By: [Signature] Date: 11-2-16 Received By: [Signature]  
 Time: \_\_\_\_\_ Time: \_\_\_\_\_  
 Delivered By: (Circle One) UPS 1.92  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Sample Condition:  Intact  Broken  
 Checked By: [Signature]

REMARKS: SSU Weathers @ dcpmidstream.com  
B Humphrey @ tasman-geo.com  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

November 07, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFALLO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/04/16 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/04/2016	Sampling Date:	11/04/2016
Reported:	11/07/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 04 @ 3' (H602502-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane 97.3 % 35-147

Surrogate: 1-Chlorooctadecane 76.6 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/04/2016	Sampling Date:	11/04/2016
Reported:	11/07/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 05 @ 4' (H602502-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
<b>Total Xylenes*</b>	<b>0.189</b>	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID)      111 %      73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane      107 %      35-147

Surrogate: 1-Chlorooctadecane      86.5 %      28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/04/2016	Sampling Date:	11/04/2016
Reported:	11/07/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 06 @ 4' (H602502-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 91.8 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/04/2016	Sampling Date:	11/04/2016
Reported:	11/07/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 07 @ 3' (H602502-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane 89.3 % 35-147

Surrogate: 1-Chlorooctadecane 96.0 % 28-171

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/04/2016	Sampling Date:	11/04/2016
Reported:	11/07/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 08 @ 3' (H602502-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane 88.9 % 35-147

Surrogate: 1-Chlorooctadecane 93.4 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/04/2016	Sampling Date:	11/04/2016
Reported:	11/07/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 09 @ 3' (H602502-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane 77.2 % 35-147

Surrogate: 1-Chlorooctadecane 83.2 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/04/2016	Sampling Date:	11/04/2016
Reported:	11/07/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 10 @ 3' (H602502-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/05/2016	ND	194	97.1	200	0.233		
DRO >C10-C28	<10.0	10.0	11/05/2016	ND	195	97.5	200	0.433		

Surrogate: 1-Chlorooctane 85.3 % 35-147

Surrogate: 1-Chlorooctadecane 85.8 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



November 08, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/07/16 8:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS11 @ 3' (H602505-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.648</b>	0.200	11/07/2016	ND	2.39	120	2.00	0.324	
<b>Toluene*</b>	<b>8.89</b>	0.200	11/07/2016	ND	2.43	122	2.00	0.577	
<b>Ethylbenzene*</b>	<b>3.39</b>	0.200	11/07/2016	ND	2.30	115	2.00	0.415	
<b>Total Xylenes*</b>	<b>13.1</b>	0.600	11/07/2016	ND	6.90	115	6.00	0.505	
<b>Total BTEX</b>	<b>26.0</b>	1.20	11/07/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>311</b>	10.0	11/07/2016	ND	192	96.2	200	1.04		
<b>DRO &gt;C10-C28</b>	<b>9290</b>	10.0	11/07/2016	ND	191	95.3	200	0.616		

*Surrogate: 1-Chlorooctane 94.2 % 35-147*
*Surrogate: 1-Chlorooctadecane 348 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS12 @ 3' (H602505-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
<b>Toluene*</b>	<b>0.340</b>	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
<b>Total BTEX</b>	<b>0.340</b>	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04		
<b>DRO &gt;C10-C28</b>	<b>19.7</b>	10.0	11/07/2016	ND	191	95.3	200	0.616		

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 83.9 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS13 @ 4' (H602505-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/08/2016	ND	2.39	120	2.00	0.324	
<b>Toluene*</b>	<b>11.5</b>	0.200	11/08/2016	ND	2.43	122	2.00	0.577	
<b>Ethylbenzene*</b>	<b>0.200</b>	0.200	11/08/2016	ND	2.30	115	2.00	0.415	
<b>Total Xylenes*</b>	<b>0.945</b>	0.600	11/08/2016	ND	6.90	115	6.00	0.505	
<b>Total BTEX</b>	<b>12.6</b>	1.20	11/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>28.6</b>	10.0	11/07/2016	ND	192	96.2	200	1.04	
<b>DRO &gt;C10-C28</b>	<b>24.6</b>	10.0	11/07/2016	ND	191	95.3	200	0.616	

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 90.7 % 28-171

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS01 @ 4' (H602505-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/08/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04		
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616		

Surrogate: 1-Chlorooctane 88.9 % 35-147

Surrogate: 1-Chlorooctadecane 81.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS02 @ 4' (H602505-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04		
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616		

Surrogate: 1-Chlorooctane 89.3 % 35-147

Surrogate: 1-Chlorooctadecane 81.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS03 @ 4' (H602505-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04		
<b>DRO &gt;C10-C28</b>	<b>722</b>	10.0	11/07/2016	ND	191	95.3	200	0.616		

Surrogate: 1-Chlorooctane 91.7 % 35-147

Surrogate: 1-Chlorooctadecane 91.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS04 @ 4' (H602505-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04		
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616		

Surrogate: 1-Chlorooctane 88.7 % 35-147

Surrogate: 1-Chlorooctadecane 89.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS06 @ 5' (H602505-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04		
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616		

Surrogate: 1-Chlorooctane 98.5 % 35-147

Surrogate: 1-Chlorooctadecane 89.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS10 @ 4' (H602505-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324		
Toluene*	<0.050	0.050	11/07/2016	ND	2.43	122	2.00	0.577		
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.30	115	2.00	0.415		
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.90	115	6.00	0.505		
Total BTEX	<0.300	0.300	11/07/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04		
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616		

Surrogate: 1-Chlorooctane 94.8 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS12 @ 6' (H602505-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2016	ND	2.39	120	2.00	0.324	
<b>Toluene*</b>	<b>0.062</b>	0.050	11/07/2016	ND	2.43	122	2.00	0.577	
<b>Ethylbenzene*</b>	<b>0.054</b>	0.050	11/07/2016	ND	2.30	115	2.00	0.415	
<b>Total Xylenes*</b>	<b>0.262</b>	0.150	11/07/2016	ND	6.90	115	6.00	0.505	
<b>Total BTEX</b>	<b>0.378</b>	0.300	11/07/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	192	96.2	200	1.04	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	191	95.3	200	0.616	

Surrogate: 1-Chlorooctane 92.6 % 35-147

Surrogate: 1-Chlorooctadecane 94.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/07/2016	Sampling Date:	11/06/2016
Reported:	11/08/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS13 @ 4' (H602505-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.442</b>	0.200	11/07/2016	ND	2.25	113	2.00	0.355	
<b>Toluene*</b>	<b>4.34</b>	0.200	11/07/2016	ND	2.28	114	2.00	1.03	
<b>Ethylbenzene*</b>	<b>4.05</b>	0.200	11/07/2016	ND	2.18	109	2.00	1.00	
<b>Total Xylenes*</b>	<b>19.3</b>	0.600	11/07/2016	ND	6.63	110	6.00	0.532	
<b>Total BTEX</b>	<b>28.1</b>	1.20	11/07/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>466</b>	10.0	11/07/2016	ND	192	96.2	200	1.04	
<b>DRO &gt;C10-C28</b>	<b>4480</b>	10.0	11/07/2016	ND	191	95.3	200	0.616	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 151 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM450Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUSH

1 of 2

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: DCP Midstream / Tasman Geoscience  
 Project Manager: Steve Weathers / Brian Humphrey  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: NM Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Location: Buffalo Valley Compressor Station  
 Sampler Name: Kyle Norman  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

**BILL TO**

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
1	5S11 @ 3 ft.	G	1	✓	✓	✓	✓	✓	✓	11-6-16	10:30	✓	✓	✓	✓	✓	
2	5S12 @ 3 ft.	G	1	✓	✓	✓	✓	✓	✓	10:35	10:35	✓	✓	✓	✓	✓	
3	5S13 @ 4 ft.	G	1	✓	✓	✓	✓	✓	✓	10:40	10:40	✓	✓	✓	✓	✓	
4	BS01 @ 4 ft.	G	1	✓	✓	✓	✓	✓	✓	11:00	11:00	✓	✓	✓	✓	✓	
5	BS02 @ 4 ft.	G	1	✓	✓	✓	✓	✓	✓	11:05	11:05	✓	✓	✓	✓	✓	
6	BS03 @ 4 ft.	G	1	✓	✓	✓	✓	✓	✓	11:10	11:10	✓	✓	✓	✓	✓	
7	BS04 @ 4 ft.	G	1	✓	✓	✓	✓	✓	✓	11:15	11:15	✓	✓	✓	✓	✓	
8	BS06 @ 5 ft.	G	1	✓	✓	✓	✓	✓	✓	11:30	11:30	✓	✓	✓	✓	✓	
9	BS10 @ 4 ft.	G	1	✓	✓	✓	✓	✓	✓	12:15	12:15	✓	✓	✓	✓	✓	
10	BS12 @ 6 ft.	G	1	✓	✓	✓	✓	✓	✓	12:40	12:40	✓	✓	✓	✓	✓	

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Relinquished By: *Kyle Norman* Date: 11-7-16 Received By: *Steve Weathers* Date: 11-7-16  
 Relinquished By: *Kyle Norman* Date: 8:08 Received By: *Steve Weathers* Date: 8:08  
 Delivered By: (Circle One)  UPS  Bus  Other: #75 2.92  
 Sample Condition:  Cool  Intact  Yes  No  
 CHECKED BY: *[Signature]*  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: email results: [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com)  
[bhumphrey@tasman-geo.com](mailto:bhumphrey@tasman-geo.com)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



November 11, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFALLO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/09/16 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/09/2016	Sampling Date:	11/08/2016
Reported:	11/11/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 14 @ 4.5' (H602530-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796		
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56		
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04		
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98		
Total BTEX	<0.300	0.300	11/10/2016	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2016	ND	173	86.3	200	1.84		
DRO >C10-C28	<10.0	10.0	11/10/2016	ND	180	90.2	200	0.365		

*Surrogate: 1-Chlorooctane 80.4 % 35-147*
*Surrogate: 1-Chlorooctadecane 82.6 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/09/2016	Sampling Date:	11/09/2016
Reported:	11/11/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 18 @ 6.5' (H602530-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796		
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56		
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04		
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98		
Total BTEX	<0.300	0.300	11/10/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2016	ND	173	86.3	200	1.84		
DRO >C10-C28	<10.0	10.0	11/10/2016	ND	180	90.2	200	0.365		

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 99.2 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/09/2016	Sampling Date:	11/09/2016
Reported:	11/11/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 19 @ 6.5' (H602530-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796		
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56		
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04		
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98		
Total BTEX	<0.300	0.300	11/10/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2016	ND	173	86.3	200	1.84		
DRO >C10-C28	<10.0	10.0	11/10/2016	ND	180	90.2	200	0.365		

Surrogate: 1-Chlorooctane 94.5 % 35-147

Surrogate: 1-Chlorooctadecane 97.2 % 28-171

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/09/2016	Sampling Date:	11/09/2016
Reported:	11/11/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 20 @ 6' (H602530-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.390</b>	0.050	11/10/2016	ND	2.14	107	2.00	0.796	
<b>Toluene*</b>	<b>0.614</b>	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
<b>Ethylbenzene*</b>	<b>0.450</b>	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
<b>Total Xylenes*</b>	<b>1.56</b>	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
<b>Total BTEX</b>	<b>3.02</b>	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>55.5</b>	10.0	11/10/2016	ND	173	86.3	200	1.84	
<b>DRO &gt;C10-C28</b>	<b>1220</b>	10.0	11/10/2016	ND	180	90.2	200	0.365	

Surrogate: 1-Chlorooctane 87.5 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/09/2016	Sampling Date:	11/09/2016
Reported:	11/11/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 21 @ 4.5' (H602530-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.258</b>	0.050	11/10/2016	ND	2.14	107	2.00	0.796		
<b>Toluene*</b>	<b>0.821</b>	0.050	11/10/2016	ND	2.19	110	2.00	1.56		
<b>Ethylbenzene*</b>	<b>1.61</b>	0.050	11/10/2016	ND	2.12	106	2.00	2.04		
<b>Total Xylenes*</b>	<b>4.58</b>	0.150	11/10/2016	ND	6.45	108	6.00	1.98		
<b>Total BTEX</b>	<b>7.27</b>	0.300	11/10/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>63.9</b>	10.0	11/10/2016	ND	173	86.3	200	1.84		
<b>DRO &gt;C10-C28</b>	<b>903</b>	10.0	11/10/2016	ND	180	90.2	200	0.365		

Surrogate: 1-Chlorooctane 91.4 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/09/2016	Sampling Date:	11/09/2016
Reported:	11/11/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 22 @ 4.5' (H602530-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.389</b>	0.050	11/11/2016	ND	2.20	110	2.00	1.51	
<b>Toluene*</b>	<b>0.886</b>	0.050	11/11/2016	ND	2.26	113	2.00	1.90	
<b>Ethylbenzene*</b>	<b>0.631</b>	0.050	11/11/2016	ND	2.18	109	2.00	2.48	
<b>Total Xylenes*</b>	<b>2.07</b>	0.150	11/11/2016	ND	6.63	111	6.00	2.54	
<b>Total BTEX</b>	<b>3.97</b>	0.300	11/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>85.4</b>	50.0	11/11/2016	ND	190	94.8	200	5.13	
<b>DRO &gt;C10-C28</b>	<b>5400</b>	50.0	11/11/2016	ND	200	99.8	200	4.45	

Surrogate: 1-Chlorooctane 97.4 % 35-147

Surrogate: 1-Chlorooctadecane 160 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/09/2016	Sampling Date:	11/09/2016
Reported:	11/11/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 24 @ 4.5' (H602530-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2016	ND	2.14	107	2.00	0.796		
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56		
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04		
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98		
Total BTEX	<0.300	0.300	11/10/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/10/2016	ND	173	86.3	200	1.84		
<b>DRO &gt;C10-C28</b>	<b>10.5</b>	10.0	11/10/2016	ND	180	90.2	200	0.365		

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 91.1 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



November 17, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/16/16 7:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 14 @ 3' (H602561-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.922</b>	0.500	11/16/2016	ND	2.17	109	2.00	0.665	
<b>Toluene*</b>	<b>19.4</b>	0.500	11/16/2016	ND	2.21	110	2.00	0.443	
<b>Ethylbenzene*</b>	<b>2.83</b>	0.500	11/16/2016	ND	2.15	108	2.00	0.430	
<b>Total Xylenes*</b>	<b>6.77</b>	1.50	11/16/2016	ND	6.51	108	6.00	0.339	
<b>Total BTEX</b>	<b>29.9</b>	3.00	11/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>225</b>	50.0	11/16/2016	ND	189	94.3	200	3.78	QM-07, QR-03	
<b>DRO &gt;C10-C28</b>	<b>8270</b>	50.0	11/16/2016	ND	202	101	200	2.85	QM-07	

Surrogate: 1-Chlorooctane 95.2 % 35-147

Surrogate: 1-Chlorooctadecane 227 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 25 @ 6.5' (H602561-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
<b>DRO &gt;C10-C28</b>	<b>17.5</b>	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 88.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 15 @ 3' (H602561-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 16 @ 8' (H602561-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 17 @ 3' (H602561-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 91.8 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 18 @ 3' (H602561-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 83.5 % 35-147

Surrogate: 1-Chlorooctadecane 84.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 19 @ 3' (H602561-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 92.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 20 @ 3' (H602561-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 86.1 % 35-147

Surrogate: 1-Chlorooctadecane 93.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 21 @ 3' (H602561-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 75.6 % 35-147

Surrogate: 1-Chlorooctadecane 84.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 22 @ 3' (H602561-10)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
<b>Ethylbenzene*</b>	<b>0.080</b>	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 90.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 23 @ 3' (H602561-11)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
<b>DRO &gt;C10-C28</b>	<b>30.5</b>	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 91.4 % 35-147

Surrogate: 1-Chlorooctadecane 97.7 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 26 @ 13' (H602561-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 27 @ 4' (H602561-13)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 91.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 28 @ 4' (H602561-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 82.5 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 29 @ 4' (H602561-15)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/16/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/16/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/16/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
DRO >C10-C28	<10.0	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 90.5 % 35-147

Surrogate: 1-Chlorooctadecane 96.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/16/2016	Sampling Date:	11/15/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 30 @ 4' (H602561-16)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2016	ND	2.17	109	2.00	0.665		
Toluene*	<0.050	0.050	11/17/2016	ND	2.21	110	2.00	0.443		
Ethylbenzene*	<0.050	0.050	11/17/2016	ND	2.15	108	2.00	0.430		
Total Xylenes*	<0.150	0.150	11/17/2016	ND	6.51	108	6.00	0.339		
Total BTEX	<0.300	0.300	11/17/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2016	ND	189	94.3	200	3.78		
<b>DRO &gt;C10-C28</b>	<b>11.3</b>	10.0	11/16/2016	ND	202	101	200	2.85		

Surrogate: 1-Chlorooctane 79.2 % 35-147

Surrogate: 1-Chlorooctadecane 84.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUSH

1 of 2

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: DCP Midstream / Tasman Geoscience		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: Steve Weathers / Brian Humphrey		Company:					
Address:		Attn:					
City:		Address:					
Phone #:		City:					
Project #:		State:		Zip:			
Project Name:		Phone #:					
Project Location: Buffalo Valley Compressor Station		Fax #:					
Sampler Name: Kyle Norman		PRESERV:		SAMPLING			
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	ACID/BASE:	DATE	TIME
HL02561				SOIL	ICE / COOL	11-15-11	1:00
1	SS14 @ 6.5 ft.		1	WASTEWATER	OTHER :	1:45	1:45
2	BS 25 @ 6.5 ft.		1	SLUDGE	OTHER :	2:00	2:00
3	SS 15 @ 3 ft.		1	OTHER :	ACID/BASE:	2:05	2:05
4	SS 16 @ 8 ft.		1	OTHER :	ICE / COOL	2:10	2:10
5	SS 17 @ 3 ft.		1	OTHER :	OTHER :	2:15	2:15
6	SS 18 @ 3 ft.		1	OTHER :	OTHER :	2:25	2:25
7	SS 19 @ 3 ft.		1	OTHER :	OTHER :	2:36	2:36
8	SS 20 @ 3 ft.		1	OTHER :	OTHER :	2:40	2:40
9	SS 21 @ 3 ft.		1	OTHER :	OTHER :		
10	SS 22 @ 3 ft.		1	OTHER :	OTHER :		

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Relinquished By: *[Signature]* Date: 11-16-11 Received By: *[Signature]* Time: 9:45 AM

Delivered By: (Circle One)  UPS - Bus - Other: #75  D-32

Sample Condition:  Intact  Cool  Yes  No

CHECKED BY: *[Signature]*

REMARKS: email results: [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com)  
[bhumphrey@tasman-geo.com](mailto:bhumphrey@tasman-geo.com)



**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUSH

2 of 2

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: DCP Midstream / Tasman Geoscience  
 Project Manager: Steve Weathers / Brian Humphrey  
 Address: \_\_\_\_\_ State: NIM Zip: \_\_\_\_\_  
 City: \_\_\_\_\_ Attn: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Location: Buffalo Valley Compressor Station  
 Sampler Name: Kyle Norman  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Attn: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
H1002561	5523 @ 3ft.	G	1			✓				11-16-16	3:06	✓	✓				
	11 BS22 @ 4ft. 13'		1			✓					3:10	✓	✓				
	13 BS22 @ 13ft. 4'		1			✓					3:15	✓	✓				
	14 BS28 @ 4ft.		1			✓					3:20	✓	✓				
	15 BS29 @ 4ft.		1			✓					3:30	✓	✓				
	16 BS30 @ 4ft.		1			✓					3:45	✓	✓				

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Relinquished By: *[Signature]* Date: 11-16-16  
 Received By: *[Signature]* Date: 11-16-16  
 Time: 7:45  
 Sample Condition:  Intact  Cool  Yes  No  
 Delivered By: (Circle One) #75 Bus - Other: 030  
 CHECKED BY: *[Signature]*  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: email results: [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com)  
[bhumphrey@tasman-geo.com](mailto:bhumphrey@tasman-geo.com)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

November 17, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/17/16 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/17/2016	Sampling Date:	11/16/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 31@ 8' (H602583-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116	
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41	
Ethylbenzene*	<0.050	0.050	11/17/2016	ND	2.14	107	2.00	0.139	
Total Xylenes*	<0.150	0.150	11/17/2016	ND	6.41	107	6.00	0.918	
Total BTEX	<0.300	0.300	11/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 90.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/17/2016	Sampling Date:	11/16/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 32@ 4' (H602583-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116		
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41		
Ethylbenzene*	<0.050	0.050	11/17/2016	ND	2.14	107	2.00	0.139		
Total Xylenes*	<0.150	0.150	11/17/2016	ND	6.41	107	6.00	0.918		
Total BTEX	<0.300	0.300	11/17/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125		
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26		

Surrogate: 1-Chlorooctane 93.2 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



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Celey D. Keene, Lab Director/Quality Manager



November 18, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/18/16 7:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 24 @ 3' (H602597-01)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.056</b>	0.050	11/18/2016	ND	2.24	112	2.00	1.51	
<b>Toluene*</b>	<b>1.11</b>	0.050	11/18/2016	ND	2.29	114	2.00	1.69	
<b>Ethylbenzene*</b>	<b>1.38</b>	0.050	11/18/2016	ND	2.21	110	2.00	1.17	
<b>Total Xylenes*</b>	<b>7.58</b>	0.150	11/18/2016	ND	6.71	112	6.00	1.12	
<b>Total BTEX</b>	<b>10.1</b>	0.300	11/18/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 152 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>35.9</b>	10.0	11/18/2016	ND	186	93.2	200	5.72	
<b>DRO &gt;C10-C28</b>	<b>33.4</b>	10.0	11/18/2016	ND	199	99.3	200	6.40	

*Surrogate: 1-Chlorooctane 95.2 % 35-147*
*Surrogate: 1-Chlorooctadecane 115 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 25 @ 3' (H602597-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 90.0 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 26 @ 3' (H602597-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 97.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 27 @ 3' (H602597-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 75.6 % 35-147

Surrogate: 1-Chlorooctadecane 85.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 28 @ 3' (H602597-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.244</b>	0.050	11/18/2016	ND	2.24	112	2.00	1.51	
<b>Toluene*</b>	<b>16.8</b>	0.050	11/18/2016	ND	2.29	114	2.00	1.69	
<b>Ethylbenzene*</b>	<b>0.279</b>	0.050	11/18/2016	ND	2.21	110	2.00	1.17	
<b>Total Xylenes*</b>	<b>1.48</b>	0.150	11/18/2016	ND	6.71	112	6.00	1.12	
<b>Total BTEX</b>	<b>18.8</b>	0.300	11/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>26.5</b>	10.0	11/18/2016	ND	186	93.2	200	5.72	
<b>DRO &gt;C10-C28</b>	<b>4000</b>	10.0	11/18/2016	ND	199	99.3	200	6.40	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 137 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 33 @ 6' (H602597-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.655</b>	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
<b>Ethylbenzene*</b>	<b>0.132</b>	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
<b>Total BTEX</b>	<b>0.787</b>	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
<b>DRO &gt;C10-C28</b>	<b>13.1</b>	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 97.7 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 34 @ 4' (H602597-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
<b>Toluene*</b>	<b>0.105</b>	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
<b>Total Xylenes*</b>	<b>0.249</b>	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
<b>Total BTEX</b>	<b>0.355</b>	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
<b>DRO &gt;C10-C28</b>	<b>175</b>	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 90.1 % 35-147

Surrogate: 1-Chlorooctadecane 92.8 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 29 @ 3' (H602597-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 77.2 % 35-147

Surrogate: 1-Chlorooctadecane 83.8 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 30 @ 3' (H602597-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 90.9 % 35-147

Surrogate: 1-Chlorooctadecane 94.2 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 31 @ 3' (H602597-10)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 91.8 % 35-147

Surrogate: 1-Chlorooctadecane 90.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 32 @ 3' (H602597-11)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID)      112 %      73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane      96.0 %      35-147

Surrogate: 1-Chlorooctadecane      105 %      28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 35 @ 6' (H602597-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 84.8 % 35-147

Surrogate: 1-Chlorooctadecane 95.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 36 @ 6' (H602597-13)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 89.3 % 35-147

Surrogate: 1-Chlorooctadecane 98.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/17/2016
Reported:	11/18/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 33 @ 4' (H602597-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	186	93.2	200	5.72		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	199	99.3	200	6.40		

Surrogate: 1-Chlorooctane 90.0 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM450Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

*RUSH*

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DCP Midstream / Tasman Geoscience		P.O. #: <b>BILL TO</b>	
Project Manager: Steve Weathers / Brian Humprey		Company:	
Address:	State: Zip:	Attn:	
City:	State: Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State: Zip:	
Project Name:	<b>Bartolo Valley Compressor Station</b>	Phone #:	
Project Location:		Fax #:	
Sampler Name: Kyle Norman			
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	
<b>H1602597</b>		# CONTAINERS	
1	5524 @ 3'	GROUNDWATER	
2	5525 @ 3'	WASTEWATER	
3	5526 @ 3'	SOIL	
4	5527 @ 3'	OIL	
5	5528 @ 3'	SLUDGE	
6	8533 @ 6'	OTHER :	
7	8534 @ 4'	ACID/BASE:	
8	5529 @ 3'	ICE / COOL	
9	5530 @ 3'	OTHER :	
10	5531 @ 3'		
		MATRIX	
		PRESERV.	
		SAMPLING	
		DATE	TIME
		11-17-16	9:45
		10:15	10:15
		10:20	10:20
		10:30	10:30
		10:45	10:45
		11:00	11:00
		11:05	11:05
		11:20	11:20
		Chlorides	<input checked="" type="checkbox"/>
		TPH 8015 M	<input checked="" type="checkbox"/>
		BTEX	<input checked="" type="checkbox"/>
		Texas TPH	<input checked="" type="checkbox"/>
		Complete Cations/Anions	<input checked="" type="checkbox"/>
		TDS	<input checked="" type="checkbox"/>
ANALYSIS REQUEST			

PLEASE NOTE: Liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Kyle Norman* Date: **11-18-16** Reseived By: *Spodi Jensen* Time: **1:45**  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Reseived By: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) **#75** 1.40  Cool  Intact  Yes  No  Yes  No  
 Sampler - UPS - Bus - Other: **#75** 1.40  Yes  No  Yes  No  
 CHECKED BY: *[Signature]*  
 email results: [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com)  
[bhumprey@tasman-geo.com](mailto:bhumprey@tasman-geo.com)

\* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



**ARDINAL LABORATORIES**

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**ANALYSIS REQUEST**

**BILL TO**

Company Name: DCP Midstream / Tasman Geoscience  
 Project Manager: Steve Weathers / Brian Humprey  
 Address: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 City: \_\_\_\_\_ Attn: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Location: *Buffalo Valley Compressor Station* Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Sampler Name: *Kyle Norman*

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
<i>H602547</i>	<i>SS3203'</i>	<i>Q</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							
	<i>BS3506'</i>	<i>Q</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							
	<i>BS3606'</i>	<i>Q</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							
	<i>SS3304'</i>	<i>Q</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							

Relinquished By: *Kyle Norman* Date: *11-18-16* Received By: *Jodi Stenson* Date: *11-18-16*  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Delivered By: (Circle One) *#75* Sample Condition:  Cool  Intact  
 Sampler - UPS - Bus - Other: *1.40*  Yes  No  Yes  No

CHECKED BY: *[Signature]*

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

REMARKS: email results: [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com)  
[bhumprey@tasman-geo.com](mailto:bhumprey@tasman-geo.com)

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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November 22, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/21/16 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Hope S. Moreno". The signature is written in a cursive, flowing style.

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/21/2016	Sampling Date:	11/21/2016
Reported:	11/22/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 37 @ 4' (H602611-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2016	ND	2.22	111	2.00	8.32		
<b>Toluene*</b>	<b>0.134</b>	0.050	11/22/2016	ND	2.25	112	2.00	9.56		
<b>Ethylbenzene*</b>	<b>0.192</b>	0.050	11/22/2016	ND	2.13	106	2.00	12.1		
<b>Total Xylenes*</b>	<b>1.82</b>	0.150	11/22/2016	ND	6.45	107	6.00	12.0		
<b>Total BTEX</b>	<b>2.15</b>	0.300	11/22/2016	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/21/2016	ND	180	89.9	200	0.464		
<b>DRO &gt;C10-C28</b>	<b>108</b>	10.0	11/21/2016	ND	187	93.6	200	0.449		

*Surrogate: 1-Chlorooctane 85.9 % 35-147*
*Surrogate: 1-Chlorooctadecane 91.7 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/21/2016	Sampling Date:	11/21/2016
Reported:	11/22/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 38 @ 4' (H602611-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2016	ND	2.22	111	2.00	8.32	
<b>Toluene*</b>	<b>0.062</b>	0.050	11/22/2016	ND	2.25	112	2.00	9.56	
<b>Ethylbenzene*</b>	<b>0.670</b>	0.050	11/22/2016	ND	2.13	106	2.00	12.1	
<b>Total Xylenes*</b>	<b>5.24</b>	0.150	11/22/2016	ND	6.45	107	6.00	12.0	
<b>Total BTEX</b>	<b>5.97</b>	0.300	11/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 180 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>198</b>	10.0	11/21/2016	ND	180	89.9	200	0.464	
<b>DRO &gt;C10-C28</b>	<b>492</b>	10.0	11/21/2016	ND	187	93.6	200	0.449	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 77.4 % 28-171

Cardinal Laboratories

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/21/2016	Sampling Date:	11/21/2016
Reported:	11/22/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BS 39 @ 4' (H602611-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2016	ND	2.22	111	2.00	8.32		
Toluene*	<0.050	0.050	11/22/2016	ND	2.25	112	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/22/2016	ND	2.13	106	2.00	12.1		
<b>Total Xylenes*</b>	<b>0.188</b>	0.150	11/22/2016	ND	6.45	107	6.00	12.0		
Total BTEX	<0.300	0.300	11/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/21/2016	ND	180	89.9	200	0.464		
<b>DRO &gt;C10-C28</b>	<b>64.4</b>	10.0	11/21/2016	ND	187	93.6	200	0.449		

Surrogate: 1-Chlorooctane 86.3 % 35-147

Surrogate: 1-Chlorooctadecane 87.3 % 28-171

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/21/2016	Sampling Date:	11/21/2016
Reported:	11/22/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 37 @ 3' (H602611-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2016	ND	2.22	111	2.00	8.32		
Toluene*	<0.050	0.050	11/22/2016	ND	2.25	112	2.00	9.56		
Ethylbenzene*	<0.050	0.050	11/22/2016	ND	2.13	106	2.00	12.1		
Total Xylenes*	<0.150	0.150	11/22/2016	ND	6.45	107	6.00	12.0		
Total BTEX	<0.300	0.300	11/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/21/2016	ND	180	89.9	200	0.464		
DRO >C10-C28	<10.0	10.0	11/21/2016	ND	187	93.6	200	0.449		

Surrogate: 1-Chlorooctane 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 89.7 % 28-171

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/21/2016	Sampling Date:	11/21/2016
Reported:	11/22/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 38 @ 3' (H602611-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.559</b>	0.050	11/21/2016	ND	2.42	121	2.00	0.705	
Toluene*	<0.050	0.050	11/21/2016	ND	2.48	124	2.00	1.14	
Ethylbenzene*	<0.050	0.050	11/21/2016	ND	2.40	120	2.00	0.997	
Total Xylenes*	<0.150	0.150	11/21/2016	ND	7.31	122	6.00	0.967	
<b>Total BTEX</b>	<b>0.744</b>	0.300	11/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/21/2016	ND	180	89.9	200	0.464	
DRO >C10-C28	<10.0	10.0	11/21/2016	ND	187	93.6	200	0.449	

Surrogate: 1-Chlorooctane 92.1 % 35-147

Surrogate: 1-Chlorooctadecane 98.4 % 28-171

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/21/2016	Sampling Date:	11/21/2016
Reported:	11/22/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 39 @ 3' (H602611-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2016	ND	2.42	121	2.00	0.705		
<b>Toluene*</b>	<b>0.643</b>	0.050	11/21/2016	ND	2.48	124	2.00	1.14		
Ethylbenzene*	<0.050	0.050	11/21/2016	ND	2.40	120	2.00	0.997		
Total Xylenes*	<0.150	0.150	11/21/2016	ND	7.31	122	6.00	0.967		
<b>Total BTEX</b>	<b>0.766</b>	0.300	11/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/21/2016	ND	180	89.9	200	0.464		
DRO >C10-C28	<10.0	10.0	11/21/2016	ND	187	93.6	200	0.449		

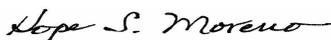
Surrogate: 1-Chlorooctane 79.9 % 35-147

Surrogate: 1-Chlorooctadecane 82.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUSH

1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DCP Midstream / Tasman Geoscience		P. O. #:		<b>BILL TO</b>		ANALYSIS REQUEST														
Project Manager: Steve Weathers / Brian Humprey		Company:																		
Address:		Attn:																		
City:		Address:																		
State:		City:																		
Zip:		State:																		
Phone #:		Project Owner:																		
Fax #:		State:																		
Project #:		City:																		
Project Name:		State:																		
Project Location: <i>Burkdale Valley Compressor Station</i>		Phone #:																		
Sampler Name: Kyle Norman		Fax #:																		
FOR LAB USE ONLY		PRESERV		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
<i>HGD2611</i>	<i>BS 37 @ 4'</i>	<i>G1</i>	<i>1</i>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							<i>11-21-16</i>	<i>6:35</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	<i>BS 38 @ 4'</i>													<i>6:39</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	<i>BS 39 @ 4'</i>													<i>6:45</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	<i>SS 37 @ 3'</i>													<i>6:50</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	<i>SS 38 @ 3'</i>													<i>6:55</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	<i>SS 39 @ 3'</i>													<i>6:59</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

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Relinquished By: *KW* Date: *11-21-16* Time: *1:40* Received By: *Steve Humprey*

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One)  UPS  Bus  Other: *#775 -0:30*

Sample Condition:  Cool  Impact  Yes  No

CHECKED BY: *[Signature]*

REMARKS: email results: [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com)  
[bhumprey@tasman-geo.com](mailto:bhumprey@tasman-geo.com)

\* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

December 01, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/30/16 19:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/30/2016	Sampling Date:	11/30/2016
Reported:	12/01/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 19 (H602676-01)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2016	ND	2.00	100	2.00	0.929	
<b>Toluene*</b>	<b>0.711</b>	0.050	12/01/2016	ND	2.05	102	2.00	1.33	
<b>Ethylbenzene*</b>	<b>1.00</b>	0.050	12/01/2016	ND	1.97	98.5	2.00	1.46	
<b>Total Xylenes*</b>	<b>5.87</b>	0.150	12/01/2016	ND	5.96	99.3	6.00	1.35	
<b>Total BTEX</b>	<b>7.58</b>	0.300	12/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 154 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>59.8</b>	10.0	12/01/2016	ND	188	93.9	200	2.53	
<b>DRO &gt;C10-C28</b>	<b>84.9</b>	10.0	12/01/2016	ND	198	99.0	200	2.83	

Surrogate: 1-Chlorooctane 68.8 % 35-147

Surrogate: 1-Chlorooctadecane 65.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/30/2016	Sampling Date:	11/30/2016
Reported:	12/01/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: BS 40 @ 6' (H602676-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2016	ND	2.00	100	2.00	0.929		
<b>Toluene*</b>	<b>0.061</b>	0.050	12/01/2016	ND	2.05	102	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/01/2016	ND	1.97	98.5	2.00	1.46		
<b>Total Xylenes*</b>	<b>0.206</b>	0.150	12/01/2016	ND	5.96	99.3	6.00	1.35		
Total BTEX	<0.300	0.300	12/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/01/2016	ND	188	93.9	200	2.53		
<b>DRO &gt;C10-C28</b>	<b>66.7</b>	10.0	12/01/2016	ND	198	99.0	200	2.83		

Surrogate: 1-Chlorooctane 93.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/30/2016	Sampling Date:	11/30/2016
Reported:	12/01/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SS 40 @ 4' (H602676-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.267</b>	0.050	12/01/2016	ND	2.00	100	2.00	0.929	
<b>Toluene*</b>	<b>0.137</b>	0.050	12/01/2016	ND	2.05	102	2.00	1.33	
<b>Ethylbenzene*</b>	<b>0.171</b>	0.050	12/01/2016	ND	1.97	98.5	2.00	1.46	
<b>Total Xylenes*</b>	<b>0.257</b>	0.150	12/01/2016	ND	5.96	99.3	6.00	1.35	
<b>Total BTEX</b>	<b>0.831</b>	0.300	12/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>39.9</b>	10.0	12/01/2016	ND	188	93.9	200	2.53		
<b>DRO &gt;C10-C28</b>	<b>7410</b>	10.0	12/01/2016	ND	198	99.0	200	2.83		

Surrogate: 1-Chlorooctane 82.0 % 35-147

Surrogate: 1-Chlorooctadecane 180 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/30/2016	Sampling Date:	11/30/2016
Reported:	12/01/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SS 41 @ 4' (H602676-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>1.41</b>	0.050	12/01/2016	ND	2.00	100	2.00	0.929		
<b>Toluene*</b>	<b>1.48</b>	0.050	12/01/2016	ND	2.05	102	2.00	1.33		
<b>Ethylbenzene*</b>	<b>4.02</b>	0.050	12/01/2016	ND	1.97	98.5	2.00	1.46		
<b>Total Xylenes*</b>	<b>3.72</b>	0.150	12/01/2016	ND	5.96	99.3	6.00	1.35		
<b>Total BTEX</b>	<b>10.6</b>	0.300	12/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 139 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>297</b>	100	12/01/2016	ND	188	93.9	200	2.53		
<b>DRO &gt;C10-C28</b>	<b>2960</b>	100	12/01/2016	ND	198	99.0	200	2.83		

Surrogate: 1-Chlorooctane 66.1 % 35-147

Surrogate: 1-Chlorooctadecane 133 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/30/2016	Sampling Date:	11/30/2016
Reported:	12/01/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SS 42 @ 4' (H602676-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.059</b>	0.050	12/01/2016	ND	2.00	100	2.00	0.929		
<b>Toluene*</b>	<b>0.330</b>	0.050	12/01/2016	ND	2.05	102	2.00	1.33		
<b>Ethylbenzene*</b>	<b>0.153</b>	0.050	12/01/2016	ND	1.97	98.5	2.00	1.46		
<b>Total Xylenes*</b>	<b>0.637</b>	0.150	12/01/2016	ND	5.96	99.3	6.00	1.35		
<b>Total BTEX</b>	<b>1.18</b>	0.300	12/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11.9</b>	10.0	12/01/2016	ND	188	93.9	200	2.53		
<b>DRO &gt;C10-C28</b>	<b>1950</b>	10.0	12/01/2016	ND	198	99.0	200	2.83		

Surrogate: 1-Chlorooctane 80.3 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/30/2016	Sampling Date:	11/30/2016
Reported:	12/01/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: SS 43 @ 4' (H602676-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2016	ND	2.00	100	2.00	0.929		
Toluene*	<0.050	0.050	12/01/2016	ND	2.05	102	2.00	1.33		
Ethylbenzene*	<0.050	0.050	12/01/2016	ND	1.97	98.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	12/01/2016	ND	5.96	99.3	6.00	1.35		
Total BTEX	<0.300	0.300	12/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/01/2016	ND	188	93.9	200	2.53		
<b>DRO &gt;C10-C28</b>	<b>78.7</b>	10.0	12/01/2016	ND	198	99.0	200	2.83		

Surrogate: 1-Chlorooctane 87.8 % 35-147

Surrogate: 1-Chlorooctadecane 95.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM450Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

*RUSH*

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: DCP Midstream / Tasman Geoscience  
 Project Manager: Steve Weathers / Brian Humphrey  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project Owner: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Location: *Buffalo Valley Compressor Station*  
 Sampler Name: Kyle Norman  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
<i>H002676</i>	<i>CS 19</i>	<i>C 1</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>11-30-16</i>	<i>1:00</i>	<input checked="" type="checkbox"/>									
	<i>BS 40 @ 6'</i>	<i>G 1</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<i>1:45</i>	<input checked="" type="checkbox"/>									
	<i>SS 40 @ 4'</i>	<i>G 1</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<i>2:00</i>	<input checked="" type="checkbox"/>									
	<i>SS 41 @ 4'</i>	<i>G 1</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<i>2:30</i>	<input checked="" type="checkbox"/>									
	<i>SS 42 @ 4'</i>	<i>G 1</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<i>2:40</i>	<input checked="" type="checkbox"/>									
	<i>SS 43 @ 4'</i>	<i>G 1</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<i>2:55</i>	<input checked="" type="checkbox"/>									

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Relinquished By: *Kyle Norman* Date: *11/30/16* Time: \_\_\_\_\_  
 Received By: *Brian Humphrey* Date: *11/30/16* Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Sample Condition: Cool  Intact   
 Checked By: *4.3°C* (Initials) *CK #75*  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: email results: *swweathers@dcpmidstream*  
*bhumphrey@tasman-geo.com*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



December 05, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/02/16 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 44 @ 4' (H602703-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2016	ND	2.02	101	2.00	3.18		
Toluene*	<0.050	0.050	12/05/2016	ND	2.06	103	2.00	3.09		
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.01	101	2.00	3.08		
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.09	102	6.00	2.75		
Total BTEX	<0.300	0.300	12/05/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/05/2016	ND	183	91.7	200	1.28		
<b>DRO &gt;C10-C28</b>	<b>24.0</b>	10.0	12/05/2016	ND	166	83.2	200	5.45		

Surrogate: 1-Chlorooctane 73.7 % 35-147

Surrogate: 1-Chlorooctadecane 61.2 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 45 @ 4' (H602703-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2016	ND	2.02	101	2.00	3.18		
Toluene*	<0.050	0.050	12/05/2016	ND	2.06	103	2.00	3.09		
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.01	101	2.00	3.08		
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.09	102	6.00	2.75		
Total BTEX	<0.300	0.300	12/05/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/05/2016	ND	183	91.7	200	1.28		
<b>DRO &gt;C10-C28</b>	<b>98.5</b>	10.0	12/05/2016	ND	166	83.2	200	5.45		

Surrogate: 1-Chlorooctane 82.6 % 35-147

Surrogate: 1-Chlorooctadecane 63.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 46 @ 4' (H602703-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2016	ND	2.02	101	2.00	3.18	
<b>Toluene*</b>	<b>0.058</b>	0.050	12/05/2016	ND	2.06	103	2.00	3.09	
<b>Ethylbenzene*</b>	<b>0.067</b>	0.050	12/05/2016	ND	2.01	101	2.00	3.08	
<b>Total Xylenes*</b>	<b>0.310</b>	0.150	12/05/2016	ND	6.09	102	6.00	2.75	
<b>Total BTEX</b>	<b>0.435</b>	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/05/2016	ND	183	91.7	200	1.28	
<b>DRO &gt;C10-C28</b>	<b>111</b>	10.0	12/05/2016	ND	166	83.2	200	5.45	

Surrogate: 1-Chlorooctane 79.9 % 35-147

Surrogate: 1-Chlorooctadecane 61.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 34 (H602703-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/05/2016	ND	2.02	101	2.00	3.18	
<b>Toluene*</b>	<b>7.21</b>	0.500	12/05/2016	ND	2.06	103	2.00	3.09	
<b>Ethylbenzene*</b>	<b>4.20</b>	0.500	12/05/2016	ND	2.01	101	2.00	3.08	
<b>Total Xylenes*</b>	<b>28.4</b>	1.50	12/05/2016	ND	6.09	102	6.00	2.75	
<b>Total BTEX</b>	<b>39.8</b>	3.00	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>58.8</b>	10.0	12/05/2016	ND	183	91.7	200	1.28	
<b>DRO &gt;C10-C28</b>	<b>71.0</b>	10.0	12/05/2016	ND	166	83.2	200	5.45	

Surrogate: 1-Chlorooctane 82.2 % 35-147

Surrogate: 1-Chlorooctadecane 59.6 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 35 (H602703-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/05/2016	ND	2.02	101	2.00	3.18	
<b>Toluene*</b>	<b>5.93</b>	0.500	12/05/2016	ND	2.06	103	2.00	3.09	
<b>Ethylbenzene*</b>	<b>6.04</b>	0.500	12/05/2016	ND	2.01	101	2.00	3.08	
<b>Total Xylenes*</b>	<b>40.0</b>	1.50	12/05/2016	ND	6.09	102	6.00	2.75	
<b>Total BTEX</b>	<b>51.9</b>	3.00	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>126</b>	10.0	12/05/2016	ND	183	91.7	200	1.28	
<b>DRO &gt;C10-C28</b>	<b>113</b>	10.0	12/05/2016	ND	166	83.2	200	5.45	

Surrogate: 1-Chlorooctane 87.6 % 35-147

Surrogate: 1-Chlorooctadecane 63.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 36 (H602703-06)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.250</b>	0.050	12/05/2016	ND	2.02	101	2.00	3.18	
<b>Toluene*</b>	<b>6.55</b>	0.050	12/05/2016	ND	2.06	103	2.00	3.09	
<b>Ethylbenzene*</b>	<b>3.53</b>	0.050	12/05/2016	ND	2.01	101	2.00	3.08	
<b>Total Xylenes*</b>	<b>22.7</b>	0.150	12/05/2016	ND	6.09	102	6.00	2.75	
<b>Total BTEX</b>	<b>33.1</b>	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 170 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>101</b>	10.0	12/05/2016	ND	183	91.7	200	1.28	
<b>DRO &gt;C10-C28</b>	<b>215</b>	10.0	12/05/2016	ND	166	83.2	200	5.45	

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 74.6 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 37 (H602703-07)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.358</b>	0.050	12/05/2016	ND	2.02	101	2.00	3.18	
<b>Toluene*</b>	<b>6.48</b>	0.050	12/05/2016	ND	2.06	103	2.00	3.09	
<b>Ethylbenzene*</b>	<b>3.41</b>	0.050	12/05/2016	ND	2.01	101	2.00	3.08	
<b>Total Xylenes*</b>	<b>21.9</b>	0.150	12/05/2016	ND	6.09	102	6.00	2.75	
<b>Total BTEX</b>	<b>32.1</b>	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>96.2</b>	10.0	12/05/2016	ND	183	91.7	200	1.28	
<b>DRO &gt;C10-C28</b>	<b>481</b>	10.0	12/05/2016	ND	166	83.2	200	5.45	

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 70.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 38 (H602703-08)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.398</b>	0.050	12/05/2016	ND	2.02	101	2.00	3.18	
<b>Toluene*</b>	<b>7.02</b>	0.050	12/05/2016	ND	2.06	103	2.00	3.09	
<b>Ethylbenzene*</b>	<b>3.05</b>	0.050	12/05/2016	ND	2.01	101	2.00	3.08	
<b>Total Xylenes*</b>	<b>19.6</b>	0.150	12/05/2016	ND	6.09	102	6.00	2.75	
<b>Total BTEX</b>	<b>30.1</b>	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>83.9</b>	10.0	12/05/2016	ND	183	91.7	200	1.28	
<b>DRO &gt;C10-C28</b>	<b>349</b>	10.0	12/05/2016	ND	166	83.2	200	5.45	

Surrogate: 1-Chlorooctane 77.8 % 35-147

Surrogate: 1-Chlorooctadecane 65.0 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/02/2016	Sampling Date:	12/02/2016
Reported:	12/05/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 39 (H602703-09)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.259</b>	0.050	12/05/2016	ND	2.02	101	2.00	3.18	
<b>Toluene*</b>	<b>4.87</b>	0.050	12/05/2016	ND	2.06	103	2.00	3.09	
<b>Ethylbenzene*</b>	<b>2.46</b>	0.050	12/05/2016	ND	2.01	101	2.00	3.08	
<b>Total Xylenes*</b>	<b>17.6</b>	0.150	12/05/2016	ND	6.09	102	6.00	2.75	
<b>Total BTEX</b>	<b>25.2</b>	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>35.6</b>	10.0	12/05/2016	ND	183	91.7	200	1.28	
<b>DRO &gt;C10-C28</b>	<b>109</b>	10.0	12/05/2016	ND	166	83.2	200	5.45	

Surrogate: 1-Chlorooctane 78.2 % 35-147

Surrogate: 1-Chlorooctadecane 73.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM450Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

BUS#

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: DCP Midstream / Tasman Tree P.O. #:            **BILL TO**  
 Project Manager: Steve Weathers / Brian Humphrey Company:            ANALYSIS REQUEST  
 Address:            Attn:             
 City:            State:            Zip:            Address:             
 Phone #:            Fax #:            City:            State:            Zip:             
 Project #:            Project Owner:            City:            State:            Zip:             
 Project Name:            State:            Zip:             
 Project Location: Buffalo Valley Compressor Station Phone #:            Fax #:             
 Sampler Name: Kyle Norman Phone #:            Fax #:           

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H1002103</u>	<u>1</u>	<u>SS 44 @ 4'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>12-2-16</u>	<u>9:00</u>	<u>BETEX</u>				
	<u>2</u>	<u>SS 45 @ 4'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>9:15</u>	<u>TP#</u>				
	<u>3</u>	<u>SS 46 @ 4'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>9:20</u>					
	<u>4</u>	<u>CS 34</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>9:30</u>					
	<u>5</u>	<u>CS 35</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>9:45</u>					
	<u>6</u>	<u>CS 36</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>10:15</u>					
	<u>7</u>	<u>CS 37</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>10:20</u>					
	<u>8</u>	<u>CS 38</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>10:40</u>					
	<u>9</u>	<u>CS 39</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<u>11:00</u>					

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Relinquished By: [Signature] Date: 12-2-16 Received By: [Signature] Date: 3-05  
 Type: Spec Received By: Steve Weathers  
 Re-Inquished By: [Signature] Date:            Received By:             
 Time:            Time:           

Delivered By: (Circle One) UPS Bus Other #175 0:30  
 Sampler - UPS - Bus - Other: #175 0:30  
 Sample Condition:  Cool  Intact  Yes  No  Yes  No  
 CHECKED BY: [Signature]

REMARKS: SS weathers @ dcp midstream.com  
bhumphrey@tasman-tree.com

December 07, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/07/16 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/07/2016	Sampling Date:	12/07/2016
Reported:	12/07/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SS 47 @ 4' (H602732-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/07/2016	ND	2.20	110	2.00	1.16		
Toluene*	<0.050	0.050	12/07/2016	ND	2.27	114	2.00	1.77		
Ethylbenzene*	<0.050	0.050	12/07/2016	ND	2.21	111	2.00	1.65		
Total Xylenes*	<0.150	0.150	12/07/2016	ND	6.74	112	6.00	1.55		
Total BTEX	<0.300	0.300	12/07/2016	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/07/2016	ND	191	95.6	200	1.99		
DRO >C10-C28	<10.0	10.0	12/07/2016	ND	195	97.6	200	4.39		

*Surrogate: 1-Chlorooctane 84.0 % 35-147*
*Surrogate: 1-Chlorooctadecane 75.7 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



## Appendix B

November 15, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFALLO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/14/16 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 01 (H602554-01)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.095</b>	0.050	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>2.99</b>	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>2.97</b>	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>18.1</b>	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>24.2</b>	0.300	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 182 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>77.4</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>106</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 96.5 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 02 (H602554-02)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.446</b>	0.200	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>9.30</b>	0.200	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>6.44</b>	0.200	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>40.0</b>	0.600	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>56.2</b>	1.20	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>68.1</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>72.8</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 94.7 % 35-147

Surrogate: 1-Chlorooctadecane 95.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 03 (H602554-03)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.772</b>	0.200	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>14.4</b>	0.200	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>9.15</b>	0.200	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>58.6</b>	0.600	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>82.9</b>	1.20	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>125</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>64.3</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 95.5 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 04 (H602554-04)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.353</b>	0.200	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>6.98</b>	0.200	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>5.83</b>	0.200	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>35.1</b>	0.600	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>48.3</b>	1.20	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>62.7</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>30.9</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 87.4 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 05 (H602554-05)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.239</b>	0.050	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>5.23</b>	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>4.52</b>	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>25.6</b>	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>35.5</b>	0.300	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 197 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>41.9</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>24.4</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 92.2 % 35-147

Surrogate: 1-Chlorooctadecane 99.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 06 (H602554-06)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.088</b>	0.050	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>2.40</b>	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>2.85</b>	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>21.5</b>	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>26.9</b>	0.300	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 199 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>56.4</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>42.6</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 99.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 07 (H602554-07)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>4.40</b>	0.200	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>4.68</b>	0.200	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>40.5</b>	0.600	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>49.6</b>	1.20	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>79.4</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>48.3</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 93.1 % 35-147

Surrogate: 1-Chlorooctadecane 93.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 08 (H602554-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>1.43</b>	0.500	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>2.00</b>	0.500	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>14.9</b>	1.50	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>18.4</b>	3.00	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID)      120 %      73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>93.3</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>94.2</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane      101 %      35-147

Surrogate: 1-Chlorooctadecane      96.5 %      28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 09 (H602554-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>2.42</b>	0.500	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>3.35</b>	0.500	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>22.9</b>	1.50	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>28.7</b>	3.00	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID)      123 %      73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>83.1</b>	10.0	11/14/2016	ND	174	87.1	200	1.22	
<b>DRO &gt;C10-C28</b>	<b>44.9</b>	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane      111 %      35-147

Surrogate: 1-Chlorooctadecane      102 %      28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 10 (H602554-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>1.94</b>	0.500	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>2.93</b>	0.500	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>18.3</b>	1.50	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>23.2</b>	3.00	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID)      121 %      73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>133</b>	10.0	11/15/2016	ND	191	95.7	200	3.77	
<b>DRO &gt;C10-C28</b>	<b>115</b>	10.0	11/15/2016	ND	199	99.4	200	1.91	

Surrogate: 1-Chlorooctane      101 %      35-147

Surrogate: 1-Chlorooctadecane      84.9 %      28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 11 (H602554-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>4.96</b>	0.500	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>4.30</b>	0.500	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>32.3</b>	1.50	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>41.6</b>	3.00	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>178</b>	10.0	11/15/2016	ND	191	95.7	200	3.77	
<b>DRO &gt;C10-C28</b>	<b>115</b>	10.0	11/15/2016	ND	199	99.4	200	1.91	

Surrogate: 1-Chlorooctane 95.3 % 35-147

Surrogate: 1-Chlorooctadecane 82.3 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/14/2016	Sampling Date:	11/14/2016
Reported:	11/15/2016	Sampling Type:	Soil
Project Name:	BUFALLO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 12 (H602554-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/15/2016	ND	1.82	90.8	2.00	0.868	
<b>Toluene*</b>	<b>3.61</b>	0.500	11/15/2016	ND	1.86	92.8	2.00	0.962	
<b>Ethylbenzene*</b>	<b>3.67</b>	0.500	11/15/2016	ND	1.80	89.8	2.00	1.43	
<b>Total Xylenes*</b>	<b>30.7</b>	1.50	11/15/2016	ND	5.46	91.0	6.00	1.73	
<b>Total BTEX</b>	<b>38.0</b>	3.00	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>123</b>	10.0	11/15/2016	ND	191	95.7	200	3.77	
<b>DRO &gt;C10-C28</b>	<b>95.3</b>	10.0	11/15/2016	ND	199	99.4	200	1.91	

Surrogate: 1-Chlorooctane 113 % 35-147

Surrogate: 1-Chlorooctadecane 89.0 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM450Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





**ARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUSH

2042

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: DCP Midstream / Tasman Geoscience		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>														
Project Manager: Steve Weathers / Brian Humphrey		Company:																		
Address:		Attn:																		
City:		Address:																		
State: NM Zip:		City:																		
Phone #:		Address:																		
Fax #:		City:																		
Project #:		State:		Zip:																
Project Owner:		Phone #:																		
Project Name:		Fax #:																		
Project Location: Buffalo Valley Compressor Station		PRESERV:		SAMPLING																
Sampler Name: Kyle Norman																				
FOR LAB USE ONLY																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
4602554	CS11	C	1										11-14-16	2:30						
	CS12	C	1										11-14-16	2:35						

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 11/14/16 Received By: *[Signature]* Time: 4:10 PM

Relinquished By: *[Signature]* Date: *[Blank]* Received By: *[Signature]* Time: *[Blank]*

Delivered By: (Circle One)  UPS  Bus  Other: #75 4:42

Sample Condition:  Cool  Intact  Yes  No

CHECKED BY: *[Signature]* (Initials)

REMARKS: email results: swweathers@dcpmidstream.com bhumphrey@tasman-geo.com

Phone Result:  Yes  No Add'l Phone #: *[Blank]*

Fax Result:  Yes  No Add'l Fax #: *[Blank]*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

November 17, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/17/16 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/17/2016	Sampling Date:	11/17/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 13 (H602581-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116	
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41	
<b>Ethylbenzene*</b>	<b>0.078</b>	0.050	11/17/2016	ND	2.14	107	2.00	0.139	
<b>Total Xylenes*</b>	<b>0.345</b>	0.150	11/17/2016	ND	6.41	107	6.00	0.918	
<b>Total BTEX</b>	<b>0.423</b>	0.300	11/17/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

*Surrogate: 1-Chlorooctane 86.3 % 35-147*
*Surrogate: 1-Chlorooctadecane 94.9 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/17/2016	Sampling Date:	11/17/2016
Reported:	11/17/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 14 (H602581-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116	
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41	
<b>Ethylbenzene*</b>	<b>0.130</b>	0.050	11/17/2016	ND	2.14	107	2.00	0.139	
<b>Total Xylenes*</b>	<b>0.550</b>	0.150	11/17/2016	ND	6.41	107	6.00	0.918	
<b>Total BTEX</b>	<b>0.679</b>	0.300	11/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
<b>DRO &gt;C10-C28</b>	<b>12.3</b>	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 90.0 % 35-147

Surrogate: 1-Chlorooctadecane 93.1 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



November 20, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 11/18/16 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/18/2016
Reported:	11/20/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: ES 01 (H602607-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/19/2016	ND	2.24	112	2.00	2.51		
<b>Toluene*</b>	<b>0.079</b>	0.050	11/19/2016	ND	2.27	114	2.00	2.24		
<b>Ethylbenzene*</b>	<b>0.096</b>	0.050	11/19/2016	ND	2.20	110	2.00	2.48		
<b>Total Xylenes*</b>	<b>0.688</b>	0.150	11/19/2016	ND	6.69	111	6.00	2.48		
<b>Total BTEX</b>	<b>0.863</b>	0.300	11/19/2016	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/18/2016	ND	197	98.3	200	1.64		
DRO >C10-C28	<10.0	10.0	11/18/2016	ND	227	113	200	0.409		

*Surrogate: 1-Chlorooctane 103 % 35-147*
*Surrogate: 1-Chlorooctadecane 104 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/18/2016
Reported:	11/20/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: ES 02 (H602607-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.081</b>	0.050	11/19/2016	ND	2.24	112	2.00	2.51	
<b>Toluene*</b>	<b>0.584</b>	0.050	11/19/2016	ND	2.27	114	2.00	2.24	
<b>Ethylbenzene*</b>	<b>0.485</b>	0.050	11/19/2016	ND	2.20	110	2.00	2.48	
<b>Total Xylenes*</b>	<b>3.43</b>	0.150	11/19/2016	ND	6.69	111	6.00	2.48	
<b>Total BTEX</b>	<b>4.58</b>	0.300	11/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>10.5</b>	10.0	11/18/2016	ND	197	98.3	200	1.64	
<b>DRO &gt;C10-C28</b>	<b>10.7</b>	10.0	11/18/2016	ND	227	113	200	0.409	

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/18/2016
Reported:	11/20/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: ES 03 (H602607-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.13</b>	0.500	11/19/2016	ND	2.24	112	2.00	2.51	
<b>Toluene*</b>	<b>19.7</b>	0.500	11/19/2016	ND	2.27	114	2.00	2.24	
<b>Ethylbenzene*</b>	<b>8.50</b>	0.500	11/19/2016	ND	2.20	110	2.00	2.48	
<b>Total Xylenes*</b>	<b>59.0</b>	1.50	11/19/2016	ND	6.69	111	6.00	2.48	
<b>Total BTEX</b>	<b>89.3</b>	3.00	11/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>861</b>	10.0	11/18/2016	ND	197	98.3	200	1.64	
<b>DRO &gt;C10-C28</b>	<b>1870</b>	10.0	11/18/2016	ND	227	113	200	0.409	

Surrogate: 1-Chlorooctane 113 % 35-147

Surrogate: 1-Chlorooctadecane 131 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/18/2016
Reported:	11/20/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 15 (H602607-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.738</b>	0.500	11/19/2016	ND	2.24	112	2.00	2.51	
<b>Toluene*</b>	<b>12.5</b>	0.500	11/19/2016	ND	2.27	114	2.00	2.24	
<b>Ethylbenzene*</b>	<b>7.29</b>	0.500	11/19/2016	ND	2.20	110	2.00	2.48	
<b>Total Xylenes*</b>	<b>52.1</b>	1.50	11/19/2016	ND	6.69	111	6.00	2.48	
<b>Total BTEX</b>	<b>72.7</b>	3.00	11/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID)      123 %      73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>248</b>	10.0	11/19/2016	ND	197	98.3	200	1.64	
<b>DRO &gt;C10-C28</b>	<b>146</b>	10.0	11/19/2016	ND	227	113	200	0.409	

Surrogate: 1-Chlorooctane      106 %      35-147

Surrogate: 1-Chlorooctadecane      91.0 %      28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/18/2016
Reported:	11/20/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 16 (H602607-05)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.086</b>	0.050	11/19/2016	ND	2.24	112	2.00	2.51	
<b>Toluene*</b>	<b>2.21</b>	0.050	11/19/2016	ND	2.27	114	2.00	2.24	
<b>Ethylbenzene*</b>	<b>2.63</b>	0.050	11/19/2016	ND	2.20	110	2.00	2.48	
<b>Total Xylenes*</b>	<b>20.8</b>	0.150	11/19/2016	ND	6.69	111	6.00	2.48	
<b>Total BTEX</b>	<b>25.7</b>	0.300	11/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 203 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>102</b>	10.0	11/19/2016	ND	197	98.3	200	1.64	
<b>DRO &gt;C10-C28</b>	<b>94.7</b>	10.0	11/19/2016	ND	227	113	200	0.409	

Surrogate: 1-Chlorooctane 99.7 % 35-147

Surrogate: 1-Chlorooctadecane 98.4 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	11/18/2016	Sampling Date:	11/18/2016
Reported:	11/20/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 17 (H602607-06)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.418</b>	0.050	11/19/2016	ND	2.24	112	2.00	2.51	
<b>Toluene*</b>	<b>8.38</b>	0.050	11/19/2016	ND	2.27	114	2.00	2.24	
<b>Ethylbenzene*</b>	<b>5.15</b>	0.050	11/19/2016	ND	2.20	110	2.00	2.48	
<b>Total Xylenes*</b>	<b>32.0</b>	0.150	11/19/2016	ND	6.69	111	6.00	2.48	
<b>Total BTEX</b>	<b>45.9</b>	0.300	11/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 191 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>52.4</b>	10.0	11/19/2016	ND	197	98.3	200	1.64	
<b>DRO &gt;C10-C28</b>	<b>22.7</b>	10.0	11/19/2016	ND	227	113	200	0.409	

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RUSH

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: DCP Midstream / Tasman Geoscience		P.O. #:		ANALYSIS REQUEST								
Project Manager: Steve Weathers / Brian Humphrey		Company:										
Address:		Attn:										
City:		Address:										
State:		City:										
Zip:		State:										
Phone #:		Zip:										
Fax #:		Phone #:										
Project #:		Project Owner:										
Project Name:		Project Location: <i>Balfredo Valley Compressor Station</i>										
Sampler Name: <i>Kyle Norman</i>		Fax #:										
FOR LAB USE ONLY		PRESERV		SAMPLING								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
<i>H10021067</i>				GROUNDWATER	<i>11-18-06</i>	<i>10:00</i>						
	<i>ES 01</i>	<i>G</i>	<i>1</i>	WASTEWATER								
	<i>ES 02</i>			SOIL	<i>10:05</i>	<i>10:05</i>						
	<i>ES 03</i>			OIL	<i>10:10</i>	<i>10:15</i>						
	<i>CS 15</i>			SLUDGE	<i>10:20</i>	<i>10:20</i>						
	<i>CS 16</i>			OTHER :	<i>10:25</i>	<i>10:25</i>						
	<i>CS 17</i>			ACID/BASE:								
				ICE / COOL								
				OTHER :								

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Relinquished By: *Wm* Date: *11-18-06* Received By: *Steve Weathers*

Relinquished By: *Wm* Date: *3:00* Received By: *Steve Weathers*

Delivered By: (Circle One) *#75* Sample Condition:  Cool  Intrap

Sampler - UPS - Bus - Other: *#75* *440*  Yes  No

Checked By: *[Signature]*

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_

Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

REMARKS: email results: *swweathers@dcpmidstream*  
*bhumphrey@tasman-geo.com*



December 02, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/01/16 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 20 (H602688-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/01/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>2.61</b>	0.200	12/01/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>2.91</b>	0.200	12/01/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>16.2</b>	0.600	12/01/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>21.7</b>	1.20	12/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>50.9</b>	10.0	12/01/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>39.5</b>	10.0	12/01/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 99.7 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 21 (H602688-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/01/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>1.75</b>	0.200	12/01/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>1.33</b>	0.200	12/01/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>8.63</b>	0.600	12/01/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>11.7</b>	1.20	12/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>71.5</b>	10.0	12/01/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>306</b>	10.0	12/01/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 97.7 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 22 (H602688-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	12/01/2016	ND	2.19	109	2.00	0.380		
<b>Toluene*</b>	<b>0.544</b>	0.200	12/01/2016	ND	2.23	112	2.00	0.350		
<b>Ethylbenzene*</b>	<b>1.08</b>	0.200	12/01/2016	ND	2.17	108	2.00	0.244		
<b>Total Xylenes*</b>	<b>6.35</b>	0.600	12/01/2016	ND	6.58	110	6.00	0.423		
<b>Total BTEX</b>	<b>7.97</b>	1.20	12/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>16.8</b>	10.0	12/01/2016	ND	208	104	200	6.13		
<b>DRO &gt;C10-C28</b>	<b>28.6</b>	10.0	12/01/2016	ND	225	113	200	3.55		

Surrogate: 1-Chlorooctane 90.0 % 35-147

Surrogate: 1-Chlorooctadecane 92.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 23 (H602688-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>0.949</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>1.06</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>7.23</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>9.24</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>18.0</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>24.7</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 96.4 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 24 (H602688-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>1.26</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>1.43</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>9.79</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>12.6</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>42.0</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>31.4</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 89.7 % 35-147

Surrogate: 1-Chlorooctadecane 99.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 25 (H602688-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>0.599</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>1.06</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>5.97</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>7.63</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>20.6</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>33.4</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 97.4 % 35-147

Surrogate: 1-Chlorooctadecane 99.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 26 (H602688-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>0.646</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>0.981</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>5.84</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>7.46</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>19.5</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>25.8</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 90.5 % 35-147

Surrogate: 1-Chlorooctadecane 87.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 27 (H602688-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>0.471</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>0.888</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>5.63</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>6.98</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>43.2</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>158</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 96.6 % 35-147

Surrogate: 1-Chlorooctadecane 91.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 28 (H602688-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.339</b>	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>6.02</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>2.88</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>19.9</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>29.1</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>73.4</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>204</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 95.5 % 35-147

Surrogate: 1-Chlorooctadecane 93.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 29 (H602688-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>1.42</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>1.46</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>10.0</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>12.9</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>27.4</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>65.1</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 89.0 % 35-147

Surrogate: 1-Chlorooctadecane 91.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 30 (H602688-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>3.66</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>2.23</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>15.1</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>21.0</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>38.4</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>69.9</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 92.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 31 (H602688-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>1.42</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>1.53</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>9.99</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>12.9</b>	1.20	12/02/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140*

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>31.2</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>41.6</b>	10.0	12/02/2016	ND	225	113	200	3.55	

*Surrogate: 1-Chlorooctane 93.4 % 35-147*
*Surrogate: 1-Chlorooctadecane 108 % 28-171*

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 32 (H602688-13)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>0.276</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>0.446</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>2.88</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>3.60</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>18.3</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>17.7</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 87.4 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/01/2016	Sampling Date:	12/01/2016
Reported:	12/02/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: CS 33 (H602688-14)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.203</b>	0.200	12/02/2016	ND	2.19	109	2.00	0.380	
<b>Toluene*</b>	<b>3.03</b>	0.200	12/02/2016	ND	2.23	112	2.00	0.350	
<b>Ethylbenzene*</b>	<b>2.88</b>	0.200	12/02/2016	ND	2.17	108	2.00	0.244	
<b>Total Xylenes*</b>	<b>17.1</b>	0.600	12/02/2016	ND	6.58	110	6.00	0.423	
<b>Total BTEX</b>	<b>23.2</b>	1.20	12/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>141</b>	10.0	12/02/2016	ND	208	104	200	6.13	
<b>DRO &gt;C10-C28</b>	<b>202</b>	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 91.8 % 35-147

Surrogate: 1-Chlorooctadecane 97.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



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Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**BILL TO**

**ANALYSIS REQUEST**

Company Name: DCP Midstream Tasmann Geo  
 Project Manager: Steve Roberts / Brian Humphrey  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Location: Buttalo Valley Compressor Station  
 Sampler Name: Kyle Norman

P.O. #: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>11</u>	<u>CS 30</u>	<u>C 1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>12-1-16</u>	<u>11:00</u>	<u>BETEX</u>						
<u>12</u>	<u>CS 31</u>	<u>C 1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11:15</u>	<u>11:15</u>	<u>TPH</u>						
<u>13</u>	<u>CS 32</u>	<u>C 1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11:30</u>	<u>11:30</u>							
<u>14</u>	<u>CS 33</u>	<u>C 1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1:45</u>	<u>1:45</u>							

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Relinquished By: \_\_\_\_\_  
 Date: 12-1-16  
 Time: 3:05  
 Received By: Scotti Stenson  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) UPS #75  
 Sampler - UPS - Bus - Other: 0.7%  
 Sample Condition:  Cool  Intact  
 Yes  No  Yes  No  
 CHECKED BY: [Signature]  
 Phone Result:  Yes  No  No  
 Fax Result:  Yes  No  No  
 Add'l Phone #: \_\_\_\_\_  
 Add'l Fax #: \_\_\_\_\_

REMARKS: SS weather's @ dcp midstream, com  
dhumphrey @ tasmann-geo, com

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

December 16, 2016

STEVE WEATHERS

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: BUFFALO VALLEY COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 12/15/16 13:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 01 (H602812-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/15/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/15/2016	ND	2.22	111	2.00	2.94		
<b>Ethylbenzene*</b>	<b>0.093</b>	0.050	12/15/2016	ND	2.16	108	2.00	3.01		
<b>Total Xylenes*</b>	<b>0.439</b>	0.150	12/15/2016	ND	6.50	108	6.00	3.05		
<b>Total BTEX</b>	<b>0.532</b>	0.300	12/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>20.5</b>	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>601</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 93.4 % 35-147

Surrogate: 1-Chlorooctadecane 88.8 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 02 (H602812-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/15/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/15/2016	ND	2.22	111	2.00	2.94		
<b>Ethylbenzene*</b>	<b>0.058</b>	0.050	12/15/2016	ND	2.16	108	2.00	3.01		
<b>Total Xylenes*</b>	<b>0.322</b>	0.150	12/15/2016	ND	6.50	108	6.00	3.05		
<b>Total BTEX</b>	<b>0.380</b>	0.300	12/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>10.2</b>	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>810</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 81.3 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 03 (H602812-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/15/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/15/2016	ND	2.22	111	2.00	2.94		
<b>Ethylbenzene*</b>	<b>0.085</b>	0.050	12/15/2016	ND	2.16	108	2.00	3.01		
<b>Total Xylenes*</b>	<b>0.456</b>	0.150	12/15/2016	ND	6.50	108	6.00	3.05		
<b>Total BTEX</b>	<b>0.541</b>	0.300	12/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>27.1</b>	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>615</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 76.8 % 35-147

Surrogate: 1-Chlorooctadecane 73.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 04 (H602812-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/15/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/15/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/15/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/15/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>685</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 81.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 05 (H602812-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/15/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/15/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/15/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/15/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>612</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 91.1 % 35-147

Surrogate: 1-Chlorooctadecane 85.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 06 (H602812-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
<b>Ethylbenzene*</b>	<b>0.063</b>	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
<b>Total Xylenes*</b>	<b>0.232</b>	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>13.3</b>	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>576</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 82.5 % 35-147

Surrogate: 1-Chlorooctadecane 77.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 07 (H602812-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>749</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 90.5 % 35-147

Surrogate: 1-Chlorooctadecane 88.2 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 08 (H602812-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>495</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 79.0 % 35-147

Surrogate: 1-Chlorooctadecane 77.1 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 09 (H602812-09)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>535</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 75.2 % 35-147

Surrogate: 1-Chlorooctadecane 72.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 10 (H602812-10)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
<b>Toluene*</b>	<b>0.080</b>	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
<b>Ethylbenzene*</b>	<b>0.269</b>	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
<b>Total Xylenes*</b>	<b>1.30</b>	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
<b>Total BTEX</b>	<b>1.64</b>	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>29.1</b>	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>643</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 84.3 % 35-147

Surrogate: 1-Chlorooctadecane 76.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 11 (H602812-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95	
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94	
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.16	108	2.00	3.01	
<b>Total Xylenes*</b>	<b>0.169</b>	0.150	12/16/2016	ND	6.50	108	6.00	3.05	
Total BTEX	<0.300	0.300	12/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>14.9</b>	10.0	12/15/2016	ND	183	91.6	200	2.70	
<b>DRO &gt;C10-C28</b>	<b>445</b>	10.0	12/15/2016	ND	197	98.6	200	0.173	

Surrogate: 1-Chlorooctane 72.4 % 35-147

Surrogate: 1-Chlorooctadecane 65.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 12 (H602812-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
<b>Ethylbenzene*</b>	<b>0.122</b>	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
<b>Total Xylenes*</b>	<b>0.512</b>	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
<b>Total BTEX</b>	<b>0.634</b>	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>25.6</b>	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>471</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 84.2 % 35-147

Surrogate: 1-Chlorooctadecane 78.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 13 (H602812-13)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/15/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>451</b>	10.0	12/15/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 79.9 % 35-147

Surrogate: 1-Chlorooctadecane 76.3 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 14 (H602812-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
<b>Ethylbenzene*</b>	<b>0.052</b>	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/16/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>629</b>	10.0	12/16/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 80.0 % 35-147

Surrogate: 1-Chlorooctadecane 79.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 15 (H602812-15)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/16/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>626</b>	10.0	12/16/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 78.1 % 35-147

Surrogate: 1-Chlorooctadecane 78.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DCP Midstream - Midland  
 STEVE WEATHERS  
 10 Desta Dr., #400-W  
 Midland TX, 79705  
 Fax To: None

Received:	12/15/2016	Sampling Date:	12/15/2016
Reported:	12/16/2016	Sampling Type:	Soil
Project Name:	BUFFALO VALLEY COMPRESSOR STATIO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: CS 16 (H602812-16)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/16/2016	ND	2.15	107	2.00	2.95		
Toluene*	<0.050	0.050	12/16/2016	ND	2.22	111	2.00	2.94		
Ethylbenzene*	<0.050	0.050	12/16/2016	ND	2.16	108	2.00	3.01		
Total Xylenes*	<0.150	0.150	12/16/2016	ND	6.50	108	6.00	3.05		
Total BTEX	<0.300	0.300	12/16/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/16/2016	ND	183	91.6	200	2.70		
<b>DRO &gt;C10-C28</b>	<b>520</b>	10.0	12/16/2016	ND	197	98.6	200	0.173		

Surrogate: 1-Chlorooctane 84.5 % 35-147

Surrogate: 1-Chlorooctadecane 76.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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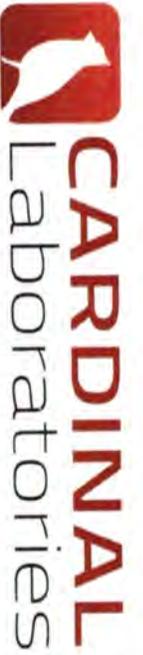
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

P9 192

Company Name: DCP Midstream / Tasman Geos Project Manager: Steve Weathers / Brian Humphrey Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: Buffalo Valley Compressor Station Sampler Name: Kyle Norman		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:							
FOR LAB USE ONLY Lab I.D. Sample I.D. H402812		BILL TO ANALYSIS REQUEST							
(G)RAB OR (C)OMP. # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: PRESERV: ACID/BASE, ICE / COOL, OTHER: DATE TIME		DATE TIME							
01	CS 01	1	12-15-16 10:00	BETEX					
02	CS 02	1	10:05	TPH					
03	CS 03	1	10:10						
04	CS 04	1	10:15						
05	CS 05	1	10:20						
06	CS 06	1	10:40						
07	CS 07	1	10:50						
08	CS 08	1	10:55						
09	CS 09	1	11:00						
10	CS 10	1	11:05						

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Relinquished By: *[Signature]* Date: 12-15-16 Time: 1:46p  
 Received By: *[Signature]* Date: 12-15-16 Time: 1:46p  
 Relinquished By: *[Signature]* Date: 12-15-16 Time: 1:46p  
 Received By: *[Signature]* Date: 12-15-16 Time: 1:46p

Delivered By: (Circle One)  UPS  Bus  Other: 1.9c  
 Sample Condition: Cool  Intact  Yes  No  Yes  No  
 CHECKED BY: *[Signature]*  
 REMARKS: SS Weathers @ dcpmidstream.com  
 bhumphrey @ tasman-geo.com  
 PUSH!

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



## Appendix C



Search  
Name Search

Scientific Name

State Search  
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Search Help

PLANTS Topics

- Alternative Crops
- Characteristics
- Classification
- Cover Crops
- Culturally Significant
- Distribution Update
- Documentation
- Fact Sheets & Plant Guides
- Introduced, Invasive, and Noxious Plants**
- Threatened & Endangered
- Wetland Indicator Status

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- 50,000+ Plant Images

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- Complete PLANTS Checklist
- State PLANTS Checklist
- Advanced Search Download
- Symbols for Unknown Plants
- NRCS State GSAT Lists
- NRCS State Plants Lists

Related Tools

- Crop Nutrient Tool
- Ecological Site Information System
- PLANTS Identification Keys
- Plant Materials Web Site
- Plant Materials Publications
- USDA Plant Hardiness Map

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## Introduced, Invasive, and Noxious Plants

NRCS Invasive Species Policy  
Invasive Species Executive Order 13112

### New Mexico State-listed Noxious Weeds

35 records returned

Click on an accepted name below to view its PLANTS Profile with more information, and web links if available. Noxious weeds that are synonyms retain their noxious status, and are indented beneath the current PLANTS accepted name.

Office of the Director/Secretary, 1998, *New Mexico noxious weed list* (20 October 2003), New Mexico Department of Agriculture.

Symbol	Scientific Name	Noxious Common Name	State Noxious Status	Native Status*
ACRE3	<i>Acroptilon repens</i> (L.) DC.	Russian knapweed	CBW	L48 (1), CAN (1)
AECY	<i>Aegilops cylindrica</i> Host	jointed goatgrass	CCW	L48 (1)
ALMA12	<i>Alhagi maurorum</i> Medik.			L48 (1)
ALPS3	<i>Alhagi pseudalhagi</i> (M. Bieb.) Desv. ex B. Keller & Schaparenko	camelthorn	CAW	
ASF12	<i>Asphodelus fistulosus</i> L.	onionweed	CAW	L48 (1)
CADR	<i>Cardaria draba</i> (L.) Desv.	hoary cress	CAW	L48 (1), CAN (1)
CANU4	<i>Carduus nutans</i> L.	musk thistle	CBW	L48 (1), CAN (1)
CECA2	<i>Centaurea calcitrapa</i> L.	purple starthistle	CAW	L48 (1), CAN (1)
CEDI3	<i>Centaurea diffusa</i> Lam.	diffuse knapweed	CAW	L48 (1), CAN (1)
CEME2	<i>Centaurea melitensis</i> L.	Malta starthistle	CBW	L48 (1), HI (1), CAN (1)
CESO3	<i>Centaurea solstitialis</i> L.	yellow starthistle	CAW	L48 (1), CAN (1)
CESTM	<i>Centaurea stoebe</i> L. ssp. <i>micranthos</i> (Gugler) Hayek			L48 (1), HI (1), CAN (1)
CEMA4	<i>Centaurea maculosa</i> auct. non Lam.	spotted knapweed	CAW	
CIAR4	<i>Cirsium arvense</i> (L.) Scop.	Canada thistle	CAW	L48 (1), AK (1), CAN (1), GL (1), SPM (1)
CIVU	<i>Cirsium vulgare</i> (Savi) Ten.	bull thistle	CBW	L48 (1), AK (1), HI (1), CAN (1), SPM (1)
COMA2	<i>Conium maculatum</i> L.	poison hemlock	CBW	L48 (1), CAN (1)
COAR4	<i>Convolvulus arvensis</i> L.	field bindweed	CCW	L48 (1), HI (1), CAN (1)
DIFU2	<i>Dipsacus fullonum</i> L.	teasel	CBW	L48 (1), CAN (1)
DRAR7	<i>Drymaria arenarioides</i> Humb. & Bonpl. ex Schult. [excluded]	alfombrilla	CAW	
ELAN	<i>Elaeagnus angustifolia</i> L.	Russian olive	CCW	L48 (1), CAN (1)
EUES	<i>Euphorbia esula</i> L.	leafy spurge	CAW	L48 (1), CAN (1)
HAGL	<i>Halogeton glomeratus</i> (M. Bieb.) C.A. Mey.	halogeton	CBW	L48 (1)
HYVE3	<i>Hydrilla verticillata</i> (L. f.) Royle	hydrilla	CAW	L48 (1)
HYNI	<i>Hyoscyamus niger</i> L.	black henbane	CAW	L48 (1), CAN (1)
ISTI	<i>Isatis tinctoria</i> L.	dyer's wood	CAW	L48 (1), CAN (W)
LELA2	<i>Lepidium latifolium</i> L.	perennial pepperweed	CAW	L48 (1), CAN (1)
LIDAD	<i>Linaria dalmatica</i> (L.) Mill. ssp. <i>dalmatica</i>			L48 (1), CAN (1)
LIGED	<i>Linaria genitifolia</i> (L.) Mill. ssp. <i>dalmatica</i> (L.) Maire & Petitm.	Dalmatian toadflax	CAW	
LIVU2	<i>Linaria vulgaris</i> Mill.	yellow toadflax	CAW	L48 (1), AK (1), CAN (1), GL (1), SPM (1)
LYSA2	<i>Lythrum salicaria</i> L.	purple loosestrife	CAW	L48 (1), CAN (1), SPM (1)
MYS2	<i>Myriophyllum spicatum</i> L.	Eurasian watermilfoil	CAW	L48 (1), AK (1), CAN (1)
ONAC	<i>Onopordum acanthium</i> L.	Scotch thistle	CAW	L48 (1), CAN (W)
PEHA	<i>Peganum harmala</i> L.	African rue	CBW	L48 (1)
TAMAR2	<i>Tamarix</i> L.	saltcedar	CCW	
ULPU	<i>Ulmus pumila</i> L.	Siberian elm	CCW	L48 (1), CAN (1)

**\*Code Noxious Status**

- CAW Class A noxious weed
- CBW Class B noxious weed
- CCW Class C noxious weed

**\*Code Native Status**

- I Introduced
- W Weib

**\*Code Native Status Jurisdiction**

- L48 Lower 48 States
- AK Alaska
- HI Hawaii
- CAN Canada
- GL Greenland
- SPM St. Pierre and Miquelon

Additional information about noxious plants in this state can be found at:

- NM-New Mexico Cooperative Extension Service
- NM-New Mexico Department of Agriculture
- NM-New Mexico Harmful Plant Act
- NM-New Mexico Seed Law
- NM-New Mexico State University
- NM-NMDA Noxious Weed Information