

Incident ID	NRM2020631097
District RP	
Facility ID	
Application ID	

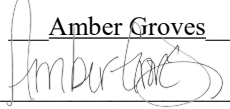
## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amber Groves Title: Remediation Specialist  
Signature:  Date: 4/6/2021  
email: algroves@paalp.com Telephone: (575)200-5517

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 06/14/2021  
Printed Name: Bradford Billings Title: Env.Spec.A



12600 WEST CO RD 91

MIDLAND, TX 79707

OFFICE: 432.653.4203

## **SITE REMEDIATION/RECLAMATION ACTIVITIES AND CLOSURE REPORT**

PLAINS PIPELINE, L.P.

ARTESIA GATHERING EAST HISTORICAL RELEASE

EDDY COUNTY, NM

NMOCD INCIDENT #: NRM2020631097

SRS #: ARTESIA GATHERING EAST HISTORICAL

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March 17, 2021

New Mexico Oil Conservation Division, District II  
811 S. First Street  
Artesia, New Mexico 88210

Bureau of Land Management  
620 E. Green Street  
Carlsbad, New Mexico 88220

**Re: Site Remediation/Reclamation Activities and Closure Report**

**Artesia Gathering East Historical Release**

**Unit Letter L, Section 23, Township 17S, Range 30E**

**GPS Coordinates: N 32.8193, W -103.9472**

**Eddy County, New Mexico**

**NMOCD Incident #: NRM2020631097**

**1. Introduction**

Dean Companies, Inc. (Dean) is pleased to present this Site Remediation/Reclamation Activities and Closure Report on behalf of Plains Pipeline, L.P. (Plains) to document the results of site reclamation and soil remediation activities that were conducted at the Artesia Gathering East Historical Release site. The historical crude oil release is located off Hwy 82, approximately 1.92 miles east/northeast of Loco Hills, New Mexico in Unit Letter L, Section 23, Township 17S and Range 30E. The GPS coordinates for the site are N 32.8193° and W -103.9472°. A "Site Location Map" and "Topographic Map" are provided as Figures 1 and 2. The United States Bureau of Land Management (BLM) is the surface owner of the property.

**2. Release Description and Response**

During a pipeline relinquishment inspection, a historic crude oil pipeline release was discovered at the Artesia Gathering East Historical Release site. An unknown volume of crude was released with no known recovery and affected a surface area measuring approximately one hundred sixty-



five (165) feet (ft.) in length by one hundred fifteen (115) ft. in width to a maximum depth of four and half feet (4.5) ft. below ground surface (bgs).

Upon discovery and initial site assessment, Dean was assigned management responsibilities for impacted soil delineation, remediation, soil sampling, site restoration, and reporting activities by Plains. On July 21, 2020, Plains submitted the C-141 Form to the NMOCD (Appendix A).

### **3. NMOCD Regulatory Limits**

New Mexico Oil Conservation Division (NMOCD) assessment and cleanup levels for hydrocarbon and saltwater releases are based on depth to groundwater and follow the criteria in the revised August 2018 Title 19 Chapter 15 Part 29 New Mexico Administrative Code (19.15.29 NMAC) regulations. Groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the New Mexico Bureau of Geology & Mineral Resources (NMBGMR) were accessed to determine if any registered water wells were located near the site. The NMOSE data base lists the nearest measured water well (RA 11914 POD1) with a measured groundwater depth of 80 feet bgs. See Appendix B for the NMOSE water well data for the well nearest the site. As outlined in 19.15.29.12.B.(4) NMAC, the release does not occur in referenced sensitive areas, but is located in a field with the nearest water body feature being an unnamed draw located approximately 6.95 miles west of the site. In addition, the site is not located within a known Bureau of Land Management (BLM) karst topography region. See Figure 3 "Site Location Relative to Known Regional Karst Topography". Meeting the previous criteria, the NMOCD restoration levels for a release located off a pad is as follows:

NMOCD reclamation levels to four (4) ft bgs:

- Chloride 600 mg/Kg
- TPH (Total) 100 mg/Kg
- Benzene 10 mg/Kg
- BTEX 50 mg/Kg

NMOCD remediation levels > four (4) ft bgs:

- Chloride 600 mg/Kg
- TPH (GRO + DRO) 1,000 mg/Kg
- TPH (Total) 2,500 mg/Kg
- Benzene 10 mg/Kg
- BTEX 50 mg/Kg

#### **4. Initial Soil Assessment and Sample Activities**

On July 7, 2020, initial soil assessment activities were performed at the release site. A hand auger was utilized to collect soil samples from the site to determine depth of hydrocarbon and chloride impacts. Soil samples were collected at one (1) ft. to two (2) ft intervals beginning from surface to one (1) ft bgs to a maximum depth of three (3) ft. across twelve (12) auger hole locations (AH-1 through AH-12). Based on field screening representative samples from the ten (10) of the twelve (12) auger holes, (AH-1, AH-3, AH-4 and AH-6 through AH-12) were placed into laboratory-provided sample containers, labeled, stored on ice, and transported under proper chain-of-custody documentation to Permian Basin Environmental Lab of Midland, Texas, (PBELAB). Samples were analyzed for total petroleum hydrocarbons (TPH) utilizing Method SW-846 8015M, benzene, toluene, ethylbenzene, and xylenes (BTEX) utilizing Method SW-846 8021B, and chlorides utilizing Method 300.0. See Figure 4 "Initial Site Delineation Details and Confirmation Soil Sample Location Map". The Benzene and Total BTEX concentrations were below the NMOCD standards of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg respectively, for all samples analyzed. In addition, the chlorides were below the NMOCD remediation standards of 600 mg/Kg. The Total TPH concentrations were above the NMOCD standards of 100 mg/Kg at depths of four (4) ft bgs or less for all soil samples analyzed with the exception of soil samples AH-4 @ 1', AH-4 @ 3', AH-11 @ surface, and AH-12 @ 3'. The Total TPH concentrations exceeding the NMOCD standards ranged from 139 mg/Kg (AH-11 @ 3') to 2,601 mg/kg (AH-7 @ 1'). The Total TPH was delineated only in auger holes AH-4 and AH-12. Once initial soil delineation results were received, Plains determined the release was of an unknown reportable quantity and submitted an initial C-141. See Table 1 for delineation analytical results. Laboratory reports containing analytical methods, results, and chain-of-custody documents are included in Appendix C.

#### **5. Soil Remediation Activities and Confirmation Sample Analysis**

Between August 31, 2020 and February 3, 2021, Dean was onsite to complete the delineation of the site and conduct soil remediation along with sampling activities at the Artesia Gathering East Historical Release. Utilizing a trackhoe and backhoe, soils were excavated around the former Plains pipeline in two (2) areas (north and south). During the excavation activities, the soils were field screened utilizing a photoionization detector (PID), chloride test strips, and visual observations. Based on the field PID screening, chloride field testing analytical results and visual observations, the northern release was excavated to dimensions of approximately one hundred seventy-five (175) feet (ft) in length by sixty (60) ft to one hundred twenty-five (125) ft in width to

a maximum depth of four and a half (4.5) ft bgs, while the southern release was excavated to dimensions of approximately ninety (90) ft in length by thirty (30) ft to seventy-five (75) ft in width to a maximum depth of four and a half (4.5) ft bgs. See Appendix D Site Photographic Documentation.

Between September 8 and 22, 2020, upon completion of the excavation activities to initial depths of one (1) to three (3) ft bgs, eighty-one (81) confirmation bottom hole samples (BH-1 through BH-71 with BH-8, BH-9, BH-58 through BH-71 sampled at depths of one (1) ft bgs while all other samples were at three (3) ft bgs for the northern excavation and BH-72 to BH-81 all sampled at a depth of one (1) ft bgs with the exception of BH-81 sampled at two (2) ft bgs in the southern excavation) and twenty (20) side wall samples (East SW-1 @ 1.5', East SW A1 @ 1.5', East SW B1 @ 1', North SW-1 @ 1.5', North SW A1 @ 1.5', North SW A2 @ 1.5', North SW B1 @ 1', South SW @ 6', South SW-2 @ 2', South SW A1 @ 1.5', South SW A2 @ 2', South SW B1 @ 1', West SW A1 @ 1.5', West SW A2 @ 1.5', West SW A3 @ 6", West SW B1 @ 1' for northern excavation and East SW B2 @ 6", North SW B2 @ 6", South SW B2 @ 6", West SW B2 @ 6" for southern excavation), and not exceeding a sampling distance of 200 square feet, were collected, placed in laboratory provided sample containers, labeled, stored on ice, and transported under proper COC documentation to PBELab in Midland, Texas. Soils were analyzed for TPH by Method SW-846 8015M, BTEX by Method SW-846 8021B, and chlorides utilizing Method SM4500-CL-B. Benzene and total BTEX concentrations were below the NMOCD reclamation/remediation standards of 10 mg/kg and 50 mg/Kg respectively, for all samples analyzed. Chloride concentrations were below the NMOCD reclamation/remediation standards of 600 mg/Kg for all samples analyzed. The TPH concentrations were below the NMOCD reclamation standards of 100 mg/Kg at depths of four (4) ft bgs or less in twenty-eight (28) bottom hole soil samples (BH-2 @ 3', BH-4 through BH-7 @ 3', BH-8 @ 1', BH-10 through BH-13 @ 3', BH-16 @ 3', BH-18 @ 3', BH-19 @ 3', BH-21 @ 3', BH-22 through BH-25 @ 3', BH-28 through BH-31 @ 3', BH-34 through BH-36 @ 3', BH-40 through BH-42 @ 3' and BH-71 @ 1') of the seventy-one (71) collected and analyzed in the northern remediation and were below all ten (10) bottom hole soil samples (BH-72 @ 1' through BH-80 @ 1' and BH-81 @ 2') collected and analyzed in the southern remediation. The TPH concentrations exceeding the NMOCD reclamation standards of 100 mg/Kg for the bottom holes ranged from 101.4 mg/Kg for soil sample BH-3 @ 3' to 1,257 mg/Kg for soil sample BH-27 @ 3'. See Figure 5 "Site Details and Confirmation Soil Sample Location Map North Bottom Hole" and Figure 7 "Site Details and Confirmation Soil Sample Location Map South Bottom Hole" for soil sample locations. Of the sixteen (16) side wall samples collected and analyzed for TPH on the northern excavation, five

(5) samples (North SW-1 @ 1.5', North SW A1 @ 1.5', North SW A2 @ 1.5', West SW A1 @ 1.5', and West SW A2 @ 1.5') were above the NMOCD reclamation standards of 100 mg/Kg and ranged from a concentration of 164.9 mg/Kg for soil sample West SW A1 @ 1.5' to 355.4 mg/Kg for soil sample North SW A2 @ 1.5'. All four (4) of the side wall samples collected and analyzed for the southern excavation were below the NMOCD reclamation standards of 100 mg/Kg. See Figure 6 "Site Details and Confirmation Soil Sample Location Map North Side Wall" and Figure 8 "Site Details and Confirmation Soil Sample Location Map South Side Wall" for wall sample locations.

Between November 5 and 6, 2020, after further excavation to a maximum depth of four (4) ft bgs in areas which exceeded the NMOCD reclamation standards, fifty-four (54) confirmation bottom hole samples (BH-1, BH-3, BH-9, BH-14, BH-15, BH17, BH-20, BH-21, BH-26, BH-27, BH-32, BH-33, BH-37 through BH-39, BH-45 through BH-70 [all to a depth of four (4) ft bgs], BH-82 through BH-85 [all at three (3) ft bgs] and BH-86 through BH-92 [all at four (4) ft bgs] for northern excavation and B-81 @ 4' and BH-93 @ 4' for southern excavation) and seventeen (17) side wall samples (East SW B @ 3.5', East SW 3 @ 3.5', East SW D @ 3.5', North SW B1A @ 2', North Wall C @ 3.5', South SW-3 @ 3.5', South SW B @ 3.5', South SW C @ 3.5', South SW D @ 3.5', West SW B1A @ 1.5', West SW B2A @ 2', West SW C @ 3.5' for northern excavation and North SW B2A @ 2', North SW C @ 2', South SW C @ 2', West SW @ 2', West SW C @ 2' for southern excavation), not exceeding a sampling distance of 200 square feet were collected, placed in laboratory provided sample containers, labeled, stored on ice, and transported under proper COC documentation to PBELab for analysis of TPH by Method SW-846 8015M. The TPH concentrations were above the NMOCD reclamation standards of 100 mg/Kg at depths of four (4) ft bgs or less in twenty-three (23) bottom hole soil samples (BH-9 @ 4', BH-14 @ 4', BH-21 @ 4', BH-26 @ 4', BH-27 @ 4', BH-32 @ 4', BH-37 @ 4', BH-45 @ 4', BH-46 @ 4', BH-48 @ 4', BH-49 @ 4', BH-50 @ 4', BH-52 @ 4', BH-54 @ 4', BH-56 @ 4', BH-57 @ 4', BH-58 @ 4', BH-61 @ 4', BH-62 @ 4', BH-69 @ 4', BH-86 @ 4', BH-89 @ 4', BH-90 @ 4') of the fifty-two (52) collected in the northern remediation and were below in the two (2) bottom hole samples collected in the southern remediation. The TPH concentrations exceeding the NMOCD reclamation standards of 100 mg/Kg for the bottom hole samples ranged from 215.6 mg/Kg for soil sample BH-61 @ 4' to 1,080 mg/Kg for soil sample BH-32 @ 4'. Of the twelve (12) side wall samples collected and analyzed for TPH on the northern excavation, two (2) samples (North Wall C @ 3.5' and East SW B @ 3.5') were above the NMOCD reclamation standards of 100 mg/Kg with concentrations of 322 mg/Kg and 297.1 mg/Kg, respectively. All five (5) of the side wall samples collected and

analyzed for the southern excavation were below the NMOCD reclamation standards of 100 mg/Kg.

On February 26, 2021, after further excavation to depths of four and a half (4.5) ft bgs in areas which exceeded the NMOCD reclamation standards, two (2) confirmation bottom hole samples (BH-43 @ 4.5' and BH-44 @ 4.5' in the northern excavation) and one (1) side wall sample (NSW C-2 @ 3.5' in northern excavation), not exceeding a sampling distance of 200 square feet were collected, placed in laboratory provided sample container, labeled, stored on ice, and transported under property COC documentation to PBELab for analysis of TPH by Method SW-846 8015M. The TPH concentrations were below the NMOCD remediation standards of 2,500 mg/Kg total TPH for bottom hole soil samples BH-43 @ 4.5' and BH-44 @ 4.5' with concentrations of <25.3 mg/Kg total TPH for both samples. The one (1) side wall sample NSW C-2 @ 3.5' was below the NMOCD reclamation standard of 100 mg/Kg with a concentration of 50 mg/Kg total TPH.

## **6. Site Extension Request**

On November 30, 2020, Plains requested an extension of NMOCD Incident #: 2020631097 which was granted on December 2, 2020 by the NMOCD until January 1, 2021. On December 29, 2020, due to weather delays and other constraints on the project, Plains requested a second extension on the project. In an email dated January 12, 2021, the NMOCD granted a second extension until February 15, 2021. See Appendix E for copies of the extension requests and approvals.

## **7. Site Reclamation Activities and Closure Request**

Between January 8 and February 3, 2021, Dean was onsite to load and transport the hydrocarbon impacted soils for disposal. Approximately 3,170.50 cubic yards of impacted soils were transported offsite for disposal at Leeland, LLC, of Carlsbad, New Mexico. Waste manifests will be available upon request. From January 8 through January 29, 2021, approximately 2,900 cubic yards of topsoil comprised of locally sourced non-impacted soils were brought to the site as backfill material and the site recontoured to match the surrounding topography.

In accordance with 19.15.29.13 NMAC, the site will be reseeded utilizing BLM #1 seed per BLM guidance, when growing conditions are ideal and danger of frost is not present. Due to native topography rendering drill application ineffective, seed will be broadcasted at double the rate recommended. Once broadcasting has been completed, erosion control methods will be implemented, as needed, to increase long term stability of the site. The site will be continually

monitored by Plains on a quarterly basis until desired growth of native grasses is achieved. Full closure of the site will be requested from BLM at that time.


With the completion of the site remediation and reclamation activities, Plains respectfully requests NMOCD approval for closure of NMOCD incident # 2020631097. Plains also requests BLM approval of remediation requirements being met. An updated C-141 closure is attached to this report.

If you have any questions, or if additional information is required please feel free to contact Amber Groves (email: [ALGroves@paalp.com](mailto:ALGroves@paalp.com), cell: 575.200.7717) of Plains or Sylwia Reynolds (email: [sylwiareynolds@deandigs.com](mailto:sylwiareynolds@deandigs.com), cell: 432.999.8675) or Jeff Kindley (email: [jeffreyykindley@deandigs.com](mailto:jeffreyykindley@deandigs.com), cell: 432.230.0920) of Deans.

Sincerely,

  
**Sylwia Reynolds**

Project Manager

  
**Jeffrey Kindley, P.G.**  
Professional Geologist

## **TABLES**



**Table 1**  
**Delineation Sampling**  
**Concentrations of Benzene, BTEX, Chlorides, and TPH in Soil**  
**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, NM**  
**SRS #Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
AH-1 @ 1'	07/07/20	1 FT	GRAB	SOIL	<0.00101	0.0144	0.00276	0.00897	0.02613	6.17	<25.3	889	889	538	1,427
AH-1 @ 2'	07/07/20	2 FT	GRAB	SOIL	<0.00102	0.00627	<0.00102	<0.00204	0.00627	5.11	<25.5	406	406	233	639
AH-1 @ 3'	07/07/20	3 FT	GRAB	SOIL	<0.00102	0.0190	0.00491	0.01633	0.04024	12.4	<25.5	307	307	165	472
AH-3 @ 1'	07/07/20	1 FT	GRAB	SOIL	<0.00103	0.00618	<0.00103	<0.00206	0.00618	7.28	<28.8	872	872	583	1,455
AH-3 @ 3'	07/07/20	3 FT	GRAB	SOIL	<0.00103	0.00411	<0.00103	<0.00206	0.00411	5.20	<25.8	1,130	1,130	554	1,684
AH-4 @ 1'	07/07/20	1 FT	GRAB	SOIL	<0.00100	0.00463	0.00108	0.00360	0.00931	7.17	<25.0	30.1	30.1	<25.0	30.1
AH-4 @ 3'	07/07/20	3 FT	GRAB	SOIL	<0.00103	0.00235	<0.00103	<0.00206	0.00235	13.0	<25.8	<25.8	<25.8	<25.8	<25.8
AH-6 @ 1'	07/07/20	1 FT	GRAB	SOIL	-	-	-	-	-	-	<25.3	841	841	391	1,232
AH-6 @ 3'	07/07/20	3 FT	GRAB	SOIL	-	-	-	-	-	-	<25.8	707	707	360	1,067
AH-7 @ 1'	07/07/20	1 FT	GRAB	SOIL	0.00103	0.00446	<0.00102	0.00204	0.00549	4.50	<25.5	1,740	1,740	861	2,601
AH-7 @ 3'	07/07/20	3 FT	GRAB	SOIL	<0.00102	0.00300	<0.00102	<0.00204	0.00300	8.97	<25.5	844	844	451	1,295
AH-8 @ 1'	07/07/20	1 FT	GRAB	SOIL	-	-	-	-	-	-	<25.3	316	316	204	520
AH-8 @ 3'	07/07/20	3 FT	GRAB	SOIL	-	-	-	-	-	-	<25.5	646	646	258	904
AH-9 @ 1'	07/07/20	1 FT	GRAB	SOIL	<0.00102	0.00776	<0.00102	0.00251	0.01027	4.35	<25.5	1,280	1,280	610	1,890
AH-9 @ 3'	07/07/20	3 FT	GRAB	SOIL	<0.00102	0.00417	<0.00102	<0.00204	0.00417	11.3	<25.5	1,380	1,380	655	2,035
AH-10 @ 1'	07/07/20	1 FT	GRAB	SOIL	-	-	-	-	-	-	<25.3	1,260	1,260	611	1,871
AH-10 @ 3'	07/07/20	3 FT	GRAB	SOIL	-	-	-	-	-	-	<25.5	536	536	302	838
AH-11 @ SURFACE	07/07/20	SUR.	GRAB	SOIL	<0.00101	0.00239	<0.00101	<0.00202	0.00239	9.94	<25.3	43.6	43.6	<25.3	43.6
AH-11 @ 1'	07/07/20	1 FT	GRAB	SOIL	<0.00100	0.00511	<0.00100	<0.00200	0.00511	12.4	<25.0	129	129	63.5	192.5
AH-11 @ 3'	07/07/20	3 FT	GRAB	SOIL	<0.00101	0.00410	0.00103	0.00393	0.00906	9.79	<25.3	97.5	97.5	41.5	139
AH-12 @ 1'	07/07/20	1 FT	GRAB	SOIL	<0.00101	0.00487	0.00102	0.00303	0.00892	10.0	<25.3	140	140	56.6	196.6
AH-12 @ 3'	07/07/20	3 FT	GRAB	SOIL	<0.00103	0.00148	<0.00103	0.00225	0.00373	8.79	<25.8	<25.8	<25.8	<25.8	<25.8
NMOCD Reclamation Standards to 4' bgs					10	-	-	-	50	600	-	-	-	-	100
NMOCD Remediation Action Levels (RAL) > 4' bgs					10	-	-	-	50	600	-	-	1,000	-	2,500

exceeds the NMOCD Reclamation Standards to 4' bgs

exceeds the NMOCD RAL and Reclamation Standards





**Table 2**  
**Confirmation Sampling**  
**Concentrations of Benzene, BTEX, Chlorides, and TPH in soil**  
**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-1 @ 3'	09/08/20	3 ft	Composite	Soil	0.00389	0.00206	<0.00101	<0.00202	0.00595	1.15	<25.3	232	232	97.4	329.4
BH-1 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	26.9	26.9	<25.5	26.9
BH-2 @ 3'	09/08/20	3 ft	Composite	Soil	0.00609	0.00747	0.00149	<0.00202	0.01505	<1.01	<25.3	<25.3	<25.3	<25.3	<25.3
BH-3 @ 3'	09/08/20	3 ft	Composite	Soil	0.0450	0.0360	0.00854	0.00331	0.09285	3.75	<25.0	71.0	71.0	30.4	101.4
BH-3 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	45.4	45.4	37.2	82.6
BH-4 @ 3'	09/08/20	3 ft	Composite	Soil	0.0185	0.0167	0.00295	<0.00200	0.03815	1.80	<25.0	<25.0	<25.0	<25.0	<25.0
BH-5 @ 3'	09/08/20	3 ft	Composite	Soil	0.0224	0.0175	0.00337	<0.00200	0.04327	3.21	<25.0	30.8	30.8	<25.0	30.8
BH-6 @ 3'	09/08/20	3 ft	Composite	Soil	0.0377	0.0904	0.0909	0.0599	0.2789	1.18	<25.3	<25.3	<25.3	<25.3	<25.3
BH-7 @ 3'	09/08/20	3 ft	Composite	Soil	0.0602	0.0605	0.0185	0.00687	0.14607	1.03	<25.0	<25.0	<25.0	<25.0	<25.0
BH-8 @ 1'	09/08/20	1 ft	Composite	Soil	0.0706	0.132	0.0922	0.0558	0.3506	3.41	<25.3	47.5	47.5	<25.3	47.5
BH-9 @ 1'	09/08/20	3 ft	Composite	Soil	0.118	0.151	0.0481	0.02147	0.33857	1.06	<25.3	207	207	111	318
BH-9 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	381	381	220	601
BH-9 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.8	184	184	88.3	272.3
BH-10 @ 3'	09/16/20	3 ft	Composite	Soil	0.0131	0.0424	0.0277	0.01363	0.09683	4.78	<25.3	<25.3	<25.3	<25.3	<25.3
BH-11 @ 3'	09/16/20	3 ft	Composite	Soil	0.0194	0.0303	0.0134	0.00489	0.06799	3.89	<25.3	40.4	40.4	<25.3	40.4
BH-12 @ 3'	09/16/20	3 ft	Composite	Soil	0.0235	0.0403	0.0197	0.00892	0.09242	7.97	<25.5	<25.5	<25.5	<25.5	<25.5
BH-13 @ 3'	09/16/20	3 ft	Composite	Soil	0.00459	0.0117	0.00633	<0.00404	0.02262	5.19	<25.3	<25.3	<25.3	<25.3	<25.3
BH-14 @ 3'	09/16/20	3 ft	Composite	Soil	0.0300	0.0431	0.0177	0.0077	0.0985	2.75	<25.3	780	780	331	1,111
BH-14 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	585	585	320	905
BH-14 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.8	347	347	193	540
BH-15 @ 3'	09/16/20	3 ft	Composite	Soil	0.0144	0.0205	0.00827	<0.00400	0.04317	6.35	<25.0	400	400	171	571
BH-15 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	29.0	29.0	<25.3	29.0
BH-16 @ 3'	09/16/20	3 ft	Composite	Soil	0.0193	0.0377	0.0217	0.01123	0.08993	9.90	<25.3	<25.3	<25.3	<25.3	<25.3
BH-17 @ 3'	09/16/20	3 ft	Composite	Soil	0.0237	0.0352	0.0138	0.00645	0.07915	8.16	<25.3	157	157	72.7	229.7
BH-17B @ 3'	11/05/20	3 ft	Composite	Soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
BH-18 @ 3'	09/16/20	3 ft	Composite	Soil	0.00963	0.0165	0.00683	<0.00404	0.03296	9.46	<25.3	<25.3	<25.3	<25.3	<25.3
BH-19 @ 3'	09/16/20	3 ft	Composite	Soil	0.00458	0.00878	0.00365	<0.00404	0.01701	6.64	<25.3	<25.3	<25.3	<25.3	<25.3
BH-20 @ 3'	09/16/20	3 ft	Composite	Soil	0.0212	0.0209	0.00766	<0.00404	0.04976	7.17	<25.3	488	488	216	704



**Table 2**  
**Confirmation Sampling**  
**Concentrations of Benzene, BTEX, Chlorides, and TPH in soil**  
**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-20 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	40.7	40.7	<25.3	40.7
BH-21 @ 3'	09/16/20	3 ft	Composite	Soil	0.0161	0.0194	0.00718	<0.00408	0.04268	6.70	<25.5	324	324	160	484
BH-21 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	226	226	107	333
BH-21 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.8	639	639	310	949
BH-22 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00103	<0.00103	<0.00103	<0.00206	<0.00206	6.38	<25.8	<25.8	<25.8	<25.8	<25.8
BH-23 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	9.18	<26.3	27.2	27.2	<26.3	27.2
BH-24 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00103	<0.00103	<0.00103	<0.00206	<0.00206	6.57	<25.8	<25.8	<25.8	<25.8	<25.8
BH-25 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	2.71	<26.3	<26.3	<26.3	<26.3	<26.3
BH-26 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	2.43	<25.3	372	372	184	556
BH-26 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.0	218	218	120	338
BH-26 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.3	192	192	82.1	274.1
BH-27 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	5.29	<25.5	827	827	430	1,257
BH-27 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	252	252	131	383
BH-27 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.5	782	782	405	1,187
BH-28 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00104	<0.00104	<0.00104	<0.00208	<0.00208	4.58	<26.0	<26.0	<26.0	<26.0	<26.0
BH-29 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00103	<0.00103	<0.00103	<0.00206	<0.00206	12.3	<25.8	<25.8	<25.8	<25.8	<25.8
BH-30 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00104	<0.00104	<0.00104	<0.00208	<0.00208	7.07	<26.0	<26.0	<26.0	<26.0	<26.0
BH-31 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	3.96	<26.3	<26.3	<26.3	<26.3	<26.3
BH-32 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	3.63	<25.3	278	278	138	416
BH-32 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	698	698	382	1,080
BH-32 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.5	487	487	214	701
BH-33 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	2.87	<25.5	151	151	85.7	236.7
BH-33 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<26.0	56.2	56.2	36.8	93.0
BH-34 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00103	<0.00103	<0.00103	<0.00206	<0.00206	12.1	<25.8	<25.8	<25.8	<25.8	<25.8
BH-35 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00103	0.00400	<0.00103	<0.00206	0.00400	5.87	<25.8	58.3	58.3	<25.8	58.3
BH-36 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00103	<0.00103	<0.00103	<0.00206	<0.00206	7.71	<25.8	<25.8	<25.8	<25.8	<25.8
BH-37 @ 3'	09/18/20	3 ft	Composite	Soil	0.00386	0.00757	<0.00101	0.00208	0.01351	6.08	<25.3	401	401	234	635



**Table 2**  
**Confirmation Sampling**  
**Concentrations of Benzene, BTEX, Chlorides, and TPH in soil**  
**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-37 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	272	272	151	423
BH-37 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.3	242	242	122	364
BH-38 @ 3'	09/18/20	3 ft	Composite	Soil	0.00263	0.00552	<0.00101	<0.00202	0.00815	3.54	<25.3	306	306	103	409
BH-38 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	<25.5	<25.5	<25.5	<25.5
BH-39 @ 3'	09/18/20	3 ft	Composite	Soil	0.00272	0.00693	<0.00101	<0.00202	0.00965	3.07	<25.3	221	221	101	322
BH-39 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	33.6	33.6	<25.5	33.6
BH-40 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00104	0.00194	<0.00104	<0.00208	0.00194	4.84	<26.0	26.2	26.2	<26.0	26.2
BH-41 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00104	0.00140	<0.00104	<0.00208	0.00140	5.85	<26.0	<26.0	<26.0	<26.0	<26.0
BH-42 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00104	0.00192	<0.00104	<0.00208	0.00192	4.26	<26.0	<26.0	<26.0	<26.0	<26.0
BH-43 @ 3'	09/18/20	3 ft	Composite	Soil	0.00181	0.00416	<0.00102	<0.00204	0.00597	7.51	<25.5	202	202	80.8	282.8
BH-43 @ 4.5'	02/26/21	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
BH-44 @ 3'	09/18/20	3 ft	Composite	Soil	0.00470	0.00881	<0.00100	0.00217	0.01568	2.79	<25.0	302	302	114	416
BH-44 @ 4.5'	02/26/21	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
BH-45 @ 3'	09/18/20	3 ft	Composite	Soil	0.00232	0.00679	<0.00101	0.00243	0.01154	6.84	<25.3	114	114	51.2	165.2
BH-45 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	219	219	121	340
BH-45 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.3	338	338	154	492
BH-46 @ 3'	09/18/20	3 ft	Composite	Soil	0.00314	0.00711	<0.00103	0.00224	0.01249	4.24	<25.8	441	441	170	611
BH-46 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.8	449	449	217	666
BH-46 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<134	4,590	4,590	1,360	5,950
BH-46 @ 5'	12/21/20	5 ft	Composite	Soil	-	-	-	-	-	-	<26.3	<26.3	<26.3	<26.3	<26.3
BH-47 @ 3'	09/18/20	3 ft	Composite	Soil	0.00466	0.00886	<0.00102	<0.00204	0.01352	6.45	<25.5	590	590	209	799
BH-47 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.8	<25.8	<25.8	<25.8	<25.8
BH-48 @ 3'	09/18/20	3 ft	Composite	Soil	0.00192	0.00527	<0.00104	0.00215	0.00934	5.61	<26.0	106	106	42.7	148.7
BH-48 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	146	146	88.1	234.1
BH-48 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<27.5	66	66	34.5	100.5
BH-49 @ 3'	09/18/20	3 ft	Composite	Soil	0.00453	0.00733	<0.00100	<0.00200	0.01186	4.24	<25.0	794	794	293	1,087
BH-49 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.8	404	404	319	723



**Table 2**  
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**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-49 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.9	668	668	357	1,025
BH-50 @ 3'	09/18/20	3 ft	Composite	Soil	0.00352	0.00723	<0.00102	0.00212	0.01287	7.09	<25.5	453	453	211	664
BH-50 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	204	204	113	317
BH-50 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<27.2	93.1	93.1	50.2	143.3
BH-51 @ 3'	09/18/20	3 ft	Composite	Soil	<0.00106	0.00188	<0.00106	<0.00213	0.00188	3.39	<26.6	90.3	90.3	39.9	130.2
BH-51 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<26.6	<26.6	<26.6	<26.6	<26.6
BH-52 @ 3'	09/18/20	3 ft	Composite	Soil	0.00353	0.00942	0.00137	0.00354	0.01786	6.29	<25.8	141	141	75.0	216
BH-52 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	228	228	171.0	399
BH-52 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<27.2	754	754	354	1,108
BH-53 @ 3'	09/18/20	3 ft	Composite	Soil	0.00301	0.00675	<0.00104	<0.00208	0.00976	3.66	<26.0	628	628	261	889
BH-53 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<26.0	<26.0	<26.0	<26.0	<26.0
BH-54 @ 3'	09/18/20	3 ft	Composite	Soil	0.00411	0.0101	0.00132	0.00344	0.01897	4.00	<26.0	712	712	277	989
BH-54 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	27.0	348	375	228	603
BH-54 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.9	395	395	292	687
BH-55 @ 3'	09/18/20	3 ft	Composite	Soil	0.00526	0.00545	<0.00104	<0.00208	0.01071	4.33	<26.0	352	352	148	500
BH-55 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	37.4	37.4	26.0	63.4
BH-56 @ 3'	09/18/20	3 ft	Composite	Soil	0.00411	0.00712	<0.00102	<0.00204	0.01123	3.07	<25.5	499	499	220	719
BH-56 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	497	497	262	759
BH-56 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.5	224	224	126	350
BH-57 @ 3'	09/22/20	3 ft	Composite	Soil	0.00397	0.00462	<0.00101	<0.00202	0.00859	10.0	<25.3	184	184	73.2	257.2
BH-57 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	207	207	127	334
BH-57 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.6	301	301	180	481
BH-58 @ 1'	09/22/20	1 ft	Composite	Soil	0.00568	0.00796	<0.00101	<0.00202	0.01364	3.78	<25.3	504	504	177	681
BH-58 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	239	239	153	392
BH-58 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.6	133	133	62.8	195.8
BH-59 @ 1'	09/22/20	1 ft	Composite	Soil	0.00509	0.00807	<0.00100	<0.00200	0.01316	3.99	<25.0	356	356	119	475
BH-59 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	59.5	59.5	26.3	85.8
BH-60 @ 1'	09/22/20	1 ft	Composite	Soil	0.00643	0.0131	0.00142	0.00342	0.02437	6.95	<25.3	194	194	66.5	260.5



**Table 2**  
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**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-60 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	<25.5	<25.5	<25.5	<25.5
BH-61 @ 1'	09/22/20	1 ft	Composite	Soil	0.00834	0.0152	0.00144	0.00330	0.02828	3.97	<25.5	205	205	69.6	274.6
BH-61 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	135	135	80.6	215.6
BH-61 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.3	314	314	151	465
BH-62 @ 1'	09/22/20	1 ft	Composite	Soil	0.00590	0.00927	<0.00101	<0.00202	0.01517	6.35	<25.3	202	202	77.2	279.2
BH-62 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	225	225	141	366
BH-62 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.3	279	279	154	433
BH-63 @ 1'	09/22/20	1 ft	Composite	Soil	0.00528	0.00753	<0.00100	<0.00200	0.01281	3.66	<25.0	198	198	87.5	285.5
BH-63 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	73.7	73.7	25.7	99.4
BH-64 @ 1'	09/22/20	1 ft	Composite	Soil	0.00479	0.00966	0.00107	0.00216	0.01768	6.60	<25.3	134	134	57.6	191.6
BH-64 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.5	<25.5	<25.5	<25.5	<25.5
BH-65 @ 1'	09/22/20	1 ft	Composite	Soil	0.00697	0.00894	<0.00100	<0.00200	0.01591	7.49	<25.0	166	166	68.8	234.8
BH-65 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.8	48.9	48.9	<25.8	48.9
BH-66 @ 1'	09/22/20	1 ft	Composite	Soil	0.00455	0.00642	<0.00100	<0.00200	0.01097	5.81	<25.0	235	235	99.4	334.4
BH-66 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
BH-67 @ 1'	09/22/20	1 ft	Composite	Soil	0.00499	0.00791	<0.00100	<0.00200	0.0129	6.13	<25.0	248	248	104	352
BH-67 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
BH-68 @ 1'	09/22/20	1 ft	Composite	Soil	0.00447	0.00650	<0.00100	<0.00200	0.01097	2.52	<25.0	247	247	97.6	344.6
BH-68 @ 4'	11/05/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.8	31.6	31.6	<25.8	31.6
BH-69 @ 1'	09/22/20	1 ft	Composite	Soil	0.00645	0.0129	0.00135	0.00290	0.0236	8.79	<25.0	128	128	55.6	183.6
BH-69 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	255	255	150	405
BH-69 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.6	475	475	240	715
BH-70 @ 1'	09/22/20	1 ft	Composite	Soil	0.00394	0.00831	0.00107	0.00236	0.01568	2.95	<25.3	85.9	85.9	35.1	121
BH-70 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
BH-71 @ 1'	09/22/20	1 ft	Composite	Soil	0.00157	0.00667	0.00118	0.00282	0.01224	3.13	<25.3	<25.3	<25.3	<25.3	<25.3
BH-72 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.71	<25.0	<25.0	<25.0	<25.0	<25.0
BH-73 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	9.21	<25.0	44.0	44.0	<25.0	44.0
BH-74 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	7.89	<25.3	<25.3	<25.3	<25.3	<25.3



**Table 2**  
**Confirmation Sampling**  
**Concentrations of Benzene, BTEX, Chlorides, and TPH in soil**  
**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
BH-75 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.63	<25.0	32.0	32.0	<25.0	32.0
BH-76 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.96	<25.0	30.0	30.0	<25.0	30.0
BH-77 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.24	<25.0	<25.0	<25.0	<25.0	<25.0
BH-78 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	5.86	<25.0	27.6	27.6	<25.0	27.6
BH-79 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	6.61	<25.0	<25.0	<25.0	<25.0	<25.0
BH-80 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	5.16	<25.0	30.8	30.8	<25.0	30.8
BH-81 @ 2'	09/22/20	2 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	8.61	<25.0	39.6	39.6	<25.0	39.6
BH-81 @ 4'	11/06/20	4 ft	Composite	Soil	-	-	-	-	-	-	<25.3	<25.3	<25.3	<25.3	<25.3
BH-82 @ 3'	11/05/20	3 ft	Composite	Soil	0.00317	0.00634	0.00783	0.00401	0.02135	74.2	<25.3	<25.3	<25.3	<25.3	<25.3
BH-83 @ 3'	11/05/20	3 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	5.21	<25.3	<25.3	<25.3	<25.3	<25.3
BH-84 @ 3'	11/05/20	3 ft	Composite	Soil	<0.00100	<0.00100	0.00174	<0.00200	0.00174	4.16	<25.3	<25.3	<25.3	<25.3	<25.3
BH-85 @ 3'	11/05/20	3 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	6.38	<25.3	<25.3	<25.3	<25.3	<25.3
BH-86 @ 4'	11/05/20	4 ft	Composite	Soil	0.00225	0.0245	0.00904	0.00301	0.0388	3.54	<25.3	235	235	106	341
BH-86 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.8	333	333	205	538
BH-87 @ 4'	11/05/20	4 ft	Composite	Soil	<0.00100	0.00405	0.00701	0.00286	0.01392	11.9	<25.3	<25.3	<25.3	<25.3	<25.3
BH-88 @ 4'	11/06/20	4 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	8.69	<25.5	<25.5	<25.5	<25.5	<25.5
BH-89 @ 4'	11/06/20	4 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	3.95	<25.3	181	181	91.2	272.2
BH-89 @ 4.5 ft	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<26.3	108	108	50.2	158.2
BH-90 @ 4'	11/06/20	4 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.59	<25.5	291	291	142	433
BH-90 @ 4.5'	12/03/20	4.5 ft	Composite	Soil	-	-	-	-	-	-	<25.5	625	625	274	899
BH-91 @ 4'	11/06/20	4 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	10.3	<25.3	<25.3	<25.3	<25.3	<25.3
BH-92 @ 4'	11/06/20	4 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	16.0	<25.3	<25.3	<25.3	<25.3	<25.3
BH-93 @ 4'	11/06/20	4 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.41	<25.3	<25.3	<25.3	<25.3	<25.3
East SW-1 @ 1.5'	09/08/20	1.5 ft	Composite	Soil	0.0219	0.0147	0.00291	<0.00200	0.03951	8.16	<25.0	<25.0	<25.0	<25.0	<25.0
East SW A1 @ 1.5'	09/22/20	1.5 ft	Composite	Soil	0.00179	0.00700	0.00119	0.00298	0.01296	4.29	<25.0	<25.0	<25.0	<25.0	<25.0
East SW B1 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.07	<25.0	<25.0	<25.0	<25.0	<25.0
East SW B2 @ 6"	09/22/20	6 in	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	4.76	<25.0	<25.0	<25.0	<25.0	<25.0
East SW B @ 3.5'	11/06/20	3.5 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	9.34	<25.3	208	208	89.1	297.1



**Table 2**  
**Confirmation Sampling**  
**Concentrations of Benzene, BTEX, Chlorides, and TPH in soil**  
**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
East SW 3 @ 3.5'	11/06/20	3.5 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.37	<25.3	<25.3	<25.3	<25.3	<25.3
ESW B-2 @ 3.5'	12/03/20	3.5 ft	Composite	Soil	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	5.31	<25.5	<25.5	<25.5	<25.5	<25.5
East SW D @ 3.5'	11/06/20	3.5 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	10.1	<25.3	<25.3	<25.3	<25.3	<25.3
North SW-1 @ 1.5'	09/08/20	1.5 ft	Composite	Soil	0.0119	0.00686	<0.00100	<0.00200	0.01876	2.13	<25.0	225	225	93.9	318.9
North SW A1 @ 1.5'	09/22/20	1.5 ft	Composite	Soil	0.00877	0.0146	0.00148	0.00322	0.02807	2.87	<25.0	238	238	80.7	318.7
North SW A2 @ 1.5'	09/22/20	1.5 ft	Composite	Soil	0.00637	0.00906	<0.00100	<0.00200	0.01543	4.61	<25.0	270	270	85.4	355.4
North SW B1 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	3.41	<25.0	<25.0	<25.0	<25.0	<25.0
North SW B1A @ 2'	11/06/20	2 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	2.68	<25.0	<25.0	<25.0	<25.0	<25.0
North SW B2 @ 6"	09/22/20	6 in	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	8.45	<25.0	<25.0	<25.0	<25.0	<25.0
North SW B2A @ 2'	11/06/20	2 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	8.38	<25.3	<25.3	<25.3	<25.3	<25.3
North SW C @ 2'	11/06/20	2 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	9.57	<25.3	48.1	48.1	<25.3	48.1
North Wall C @ 3.5'	11/06/20	3.5 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	4.62	<25.5	205	205	117	322
NSW C-2 @ 3.5'	12/03/20	3.5 ft	Composite	Soil	<0.00102	<0.00102	<0.00102	<0.00204	<0.00102	20.3	<25.5	395	395	167	562
NSW C-2 @ 3.5'	02/26/21	3.5 ft	Composite	Soil	-	-	-	-	-	-	<25.3	50	50	<25.3	50
South SW @ 6"	09/08/20	6 in	Composite	Soil	0.0172	0.0124	0.00273	<0.00202	0.03233	<1.01	<25.3	26.2	26.2	<25.3	26.2
South SW-2 @ 2'	09/08/20	2 ft	Composite	Soil	0.0739	0.0759	0.0310	0.01245	0.19325	1.53	<25.0	<25.0	<25.0	<25.0	<25.0
South SW-3 @ 3.5'	11/06/20	3.5 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	7.37	<25.3	<25.3	<25.3	<25.3	<25.3
South SW A1 @ 1.5'	09/22/20	1.5 ft	Composite	Soil	0.00149	0.00727	0.00179	0.00471	0.01526	5.71	<25.3	<25.3	<25.3	<25.3	<25.3
South SW A2 @ 2'	09/22/20	2 ft	Composite	Soil	0.00290	0.0116	0.00172	0.00421	0.02043	8.82	<25.3	<25.3	<25.3	<25.3	<25.3
South SW B1 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	9.39	<25.0	35.6	35.6	<25.0	35.6
South SW B2 @ 6"	09/22/20	6 in	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	11.6	<25.0	<25.0	<25.0	<25.0	<25.0
South SW B @ 3.5'	11/05/20	3.5 ft	Composite	Soil	<0.00100	0.0117	0.0179	0.0095	0.0391	4.18	<25.3	<25.3	<25.3	<25.3	<25.3
South SW C @ 2'	11/06/20	2 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	19.0	<25.0	<25.0	<25.0	<25.0	<25.0
South SW C @ 3.5'	11/05/20	3.5 ft	Composite	Soil	<0.00100	0.00233	0.0078	0.00329	0.01342	4.85	<25.3	<25.3	<25.3	<25.3	<25.3
South SW D @ 3.5'	11/06/20	3.5 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	4.06	<25.5	<25.5	<25.5	<25.5	<25.5
West SW @ 2'	11/06/20	2 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	5.83	<25.3	<25.3	<25.3	<25.3	<25.3
West SW A1 @ 1.5'	09/22/20	1.5 ft	Composite	Soil	0.00878	0.0151	0.00157	0.00344	0.02889	3.74	<25.0	127	127	37.9	164.9
West SW A2 @ 1.5'	09/22/20	1.5 ft	Composite	Soil	0.00587	0.0113	0.00196	0.00591	0.02504	6.08	<25.0	187	187	45.8	232.8



**Table 2**  
**Confirmation Sampling**  
**Concentrations of Benzene, BTEX, Chlorides, and TPH in soil**  
**Plains Pipeline, L.P.**  
**Artesia Gathering East Remediation**  
**Eddy County, New Mexico**  
**SRS # Artesia Gathering East Historical**

SAMPLE INFORMATION					METHODS: EPA SW 846-8021B, 5030					METHOD: E 300	METHODS: EPA SW 846-8015M				
SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH	SAMPLE METHOD	MATRIX	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENE (mg/kg)	Total BTEX (mg/kg)	CHLORIDES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO +DRO (mg/kg)	ORO (mg/kg)	TOTAL TPH (mg/kg)
West SW A3 @ 6"	09/22/20	6 in	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	3.37	<25.0	40.1	40.1	<25.0	40.1
West SW B1 @ 1'	09/22/20	1 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	12.4	<25.0	44.2	44.2	<25.0	44.2
West SW B1A @ 1.5'	11/05/20	1.5 ft	Composite	Soil	0.0132	0.0346	0.0157	0.00737	0.07087	5.84	<25.0	<25.0	<25.0	<25.0	<25.0
West SW B2 @ 6"	09/22/20	6 in	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	6.57	<25.0	<25.0	<25.0	<25.0	<25.0
West SW B2A @ 2'	11/05/20	2 ft	Composite	Soil	<0.00100	<0.00100	0.00132	<0.00200	0.00132	8.25	<25.3	<25.3	<25.3	<25.3	<25.3
West SW C @ 2'	11/06/20	2 ft	Composite	Soil	<0.00100	<0.00100	<0.00100	<0.00200	<0.00200	5.18	<25.3	<25.3	<25.3	<25.3	<25.3
West SW C @ 3.5'	11/05/20	3.5'	Composite	Soil	<0.00100	0.00836	0.0137	0.00738	0.02944	7.88	<25.3	<25.3	<25.3	<25.3	<25.3
SP-South	09/08/20	NA	Composite	Soil	0.0148	0.0433	0.0261	0.01477	0.09897	2.05	<25.3	708	708	377	1,085
SP-North	09/08/20	NA	Composite	Soil	0.0295	0.0173	0.00230	<0.00202	0.04910	3.15	<25.3	149	149	60.9	209.9
NMOCD Reclamation Standards to 4' bgs					10	-	-	-	50	600	-	-	-	-	100
NMOCD Recommended Remediation Action Level					10	-	-	-	50	600	-	-	1,000	-	2,500
exceeds the NMOCD Reclamation Standards to 4' bgs					exceeds the NMOCD RAL and Reclamation Standards										
exceeds the NMOCD RAL					Soils removed from ground and transported offsite for disposal										



## **FIGURES**

Figure 1

Site Location Map

Plains Pipeline LLC

Artesia Gathering East Historical

SRS: Artesia Gathering East Historical

GPS: 32.8193, -103.9472

Eddy County, NM



Site Location

Loco Hills

Lovington Hwy 82

**DEAN**



Figure 2

Topographic Map  
Plains Pipeline LLC  
Artesia Gathering East Historical  
SRS: Artesia Gathering East Historical  
GPS: 32.8193, -103.9472  
Eddy County, NM

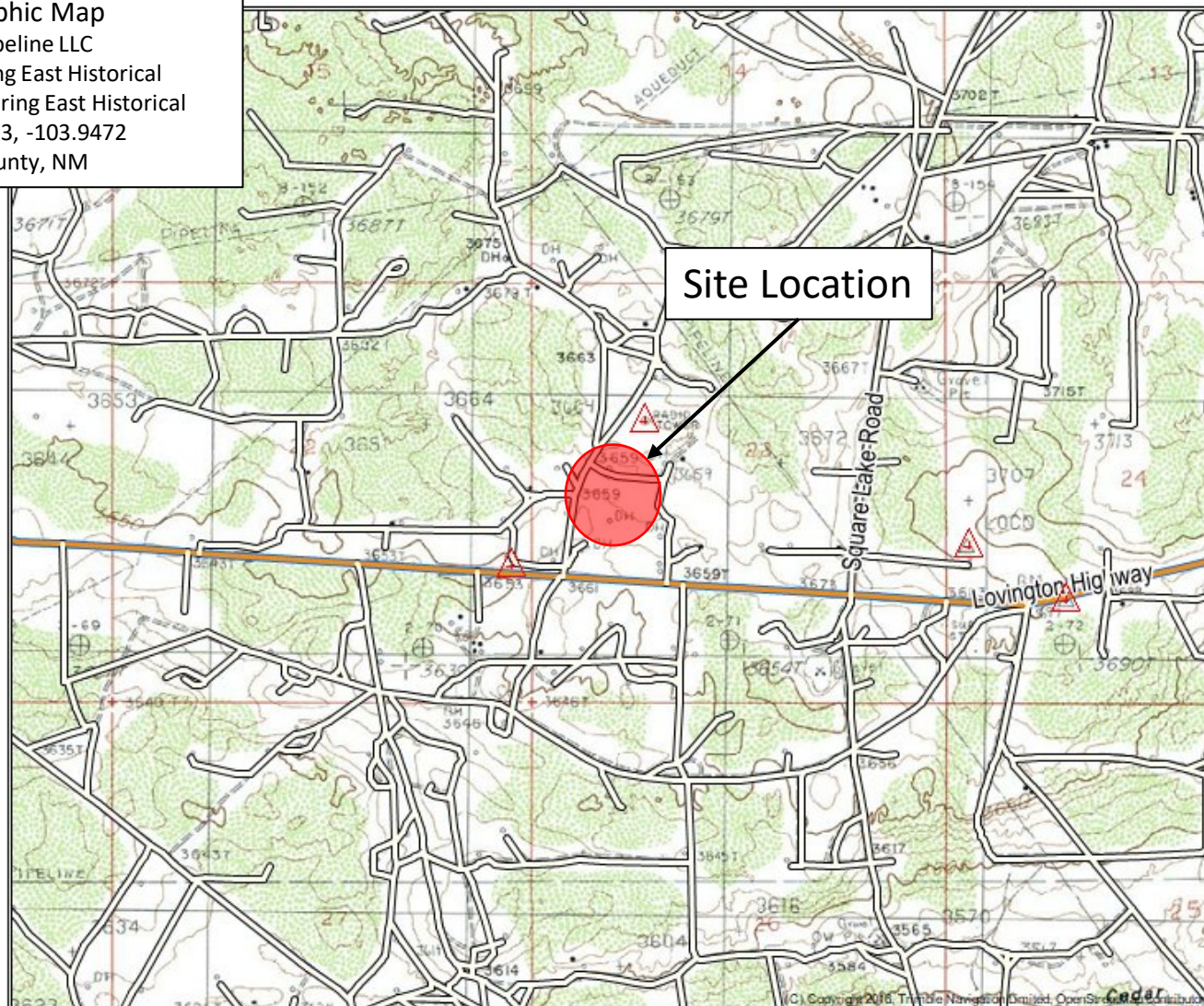
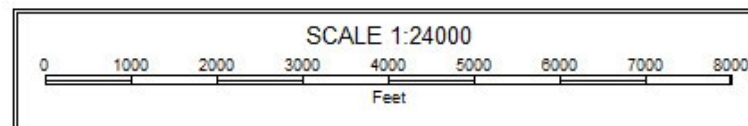
**DEAN**



Figure 3

Site Location Relative to Known  
Regional Karst Topography

Plains Pipeline LLC

Artesia Gathering East Historical SRS:

Artesia Gathering East Historical GPS:

32.8193, -103.9472

Eddy County, NM



**DEAN**



Figure 4

Initial Site Delineation Details and Confirmation  
Soil Sample Location Map  
Plains Pipeline LLC  
Artesia Gathering East Historical  
SRS: Artesia Gathering East Historical  
GPS: 32.8193, -103.9472  
Eddy County, NM

Legend

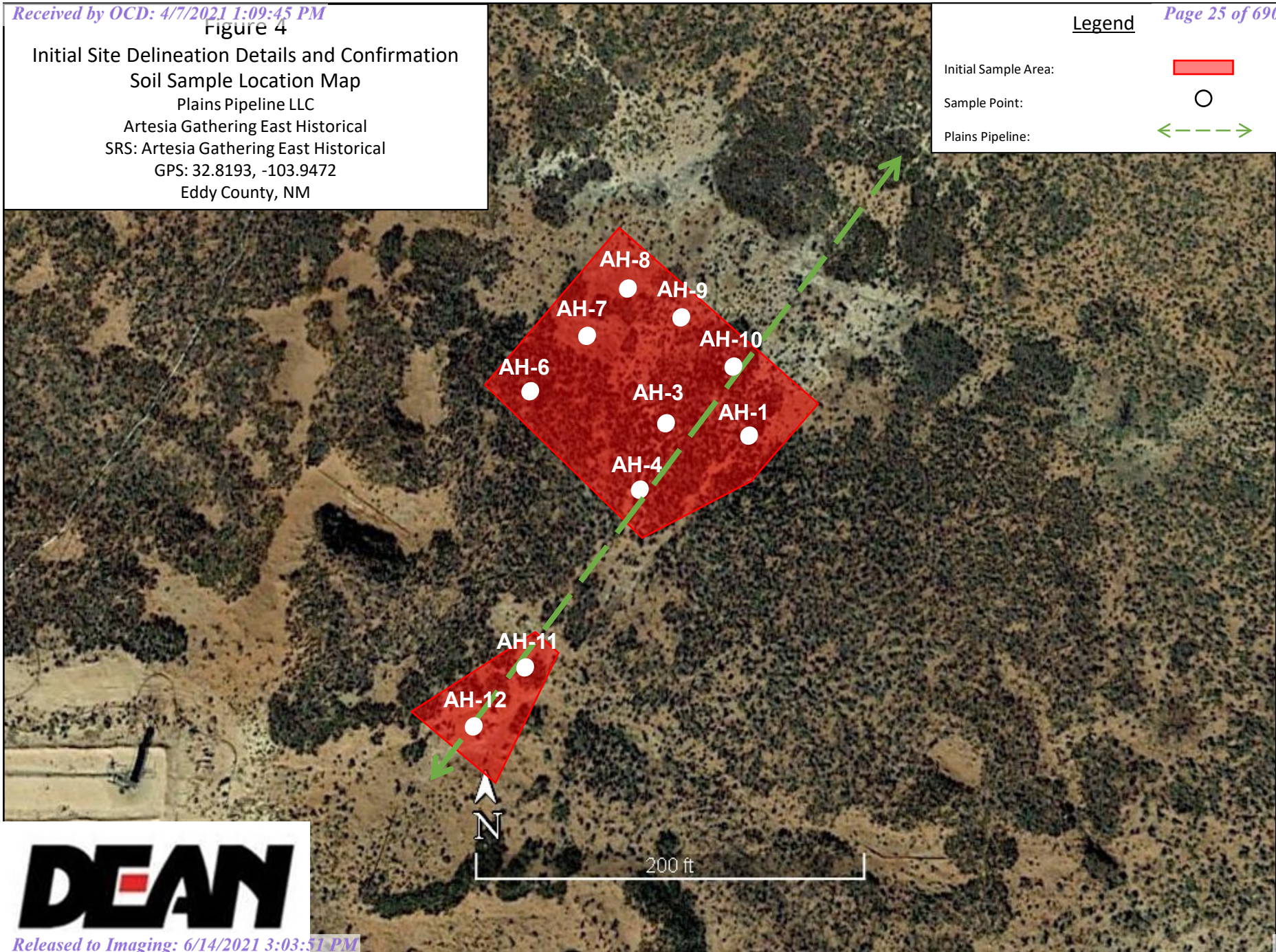
Initial Sample Area:



Sample Point:



Plains Pipeline:



**DEAN**



Figure 5

Site Details and Confirmation Soil  
Sample Location Map North Bottom  
Hole

Plains Pipeline LLC  
Artesia Gathering East Historical  
SRS: Artesia Gathering East Historical  
GPS: 32.8193, -103.9472  
Eddy County, NM

Legend

Sample Point:



Excavation area:



Plains Pipeline

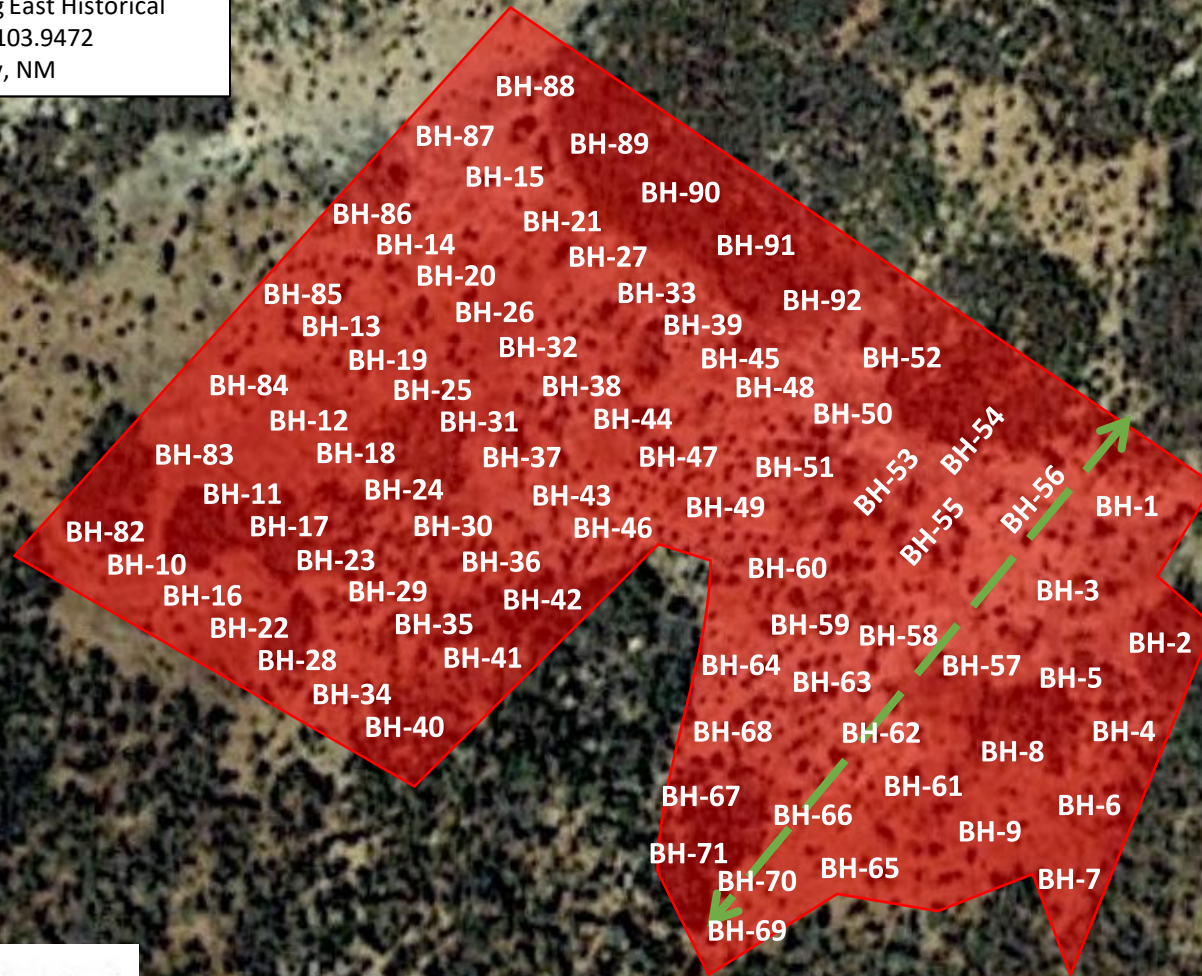




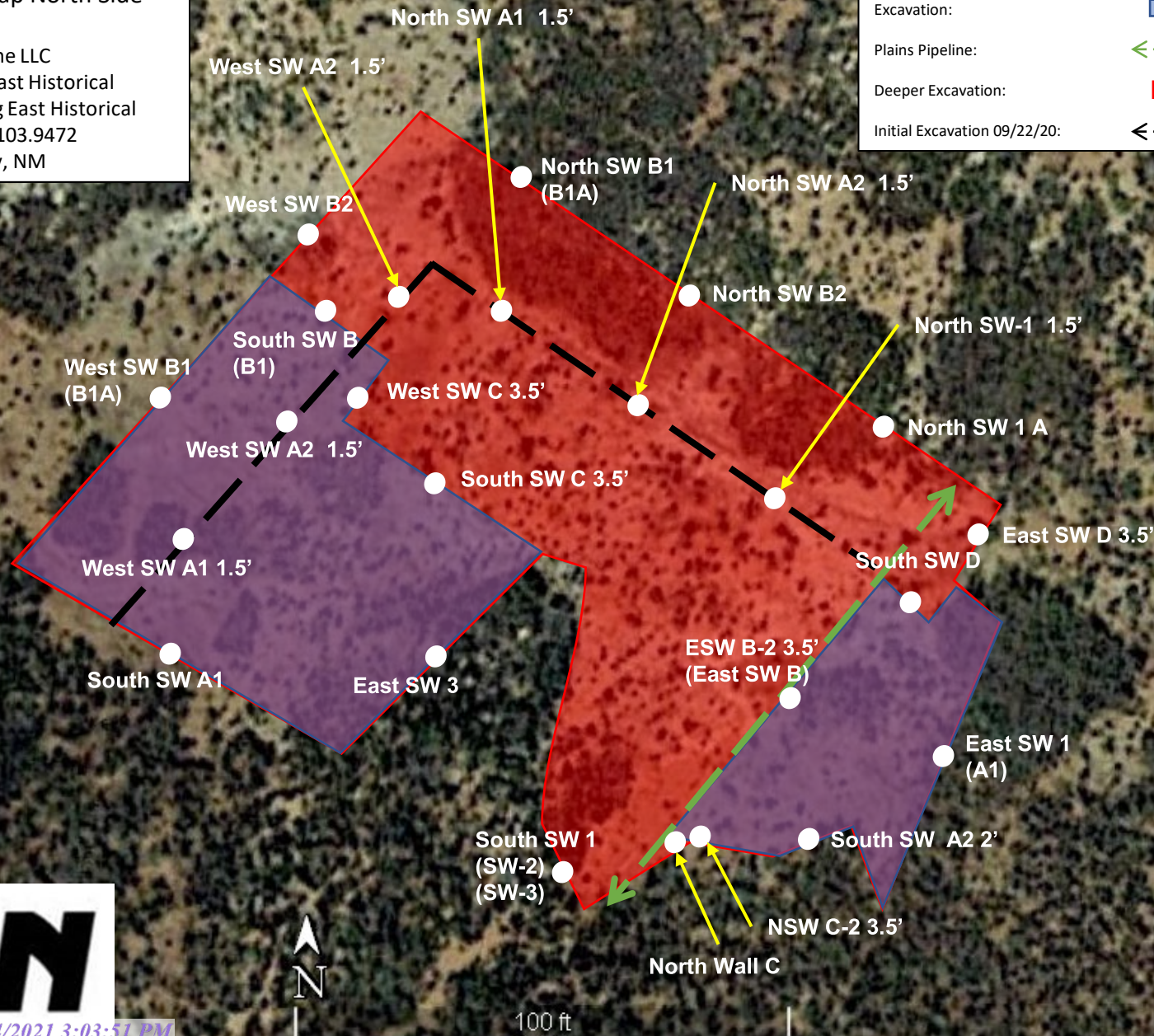
Figure 6

Site Details and Confirmation Soil  
Sample Location Map North Side  
Wall

Plains Pipeline LLC  
Artesia Gathering East Historical  
SRS: Artesia Gathering East Historical  
GPS: 32.8193, -103.9472  
Eddy County, NM

Legend

- Sample Point: ○
- Excavation: [Blue Box]
- Plains Pipeline: [Green Dashed Arrow]
- Deeper Excavation: [Red Box]
- Initial Excavation 09/22/20: [Black Dashed Arrow]



**DEAN**



Figure 7

Site Details and Confirmation Soil  
Sample Location Map South Bottom  
Hole

Plains Pipeline, LLC.

Artesia Gathering East Historical SRS:

Artesia Gathering East Historical GPS:

32.8193, -103.9472

Eddy County, NM

Legend

Excavation:



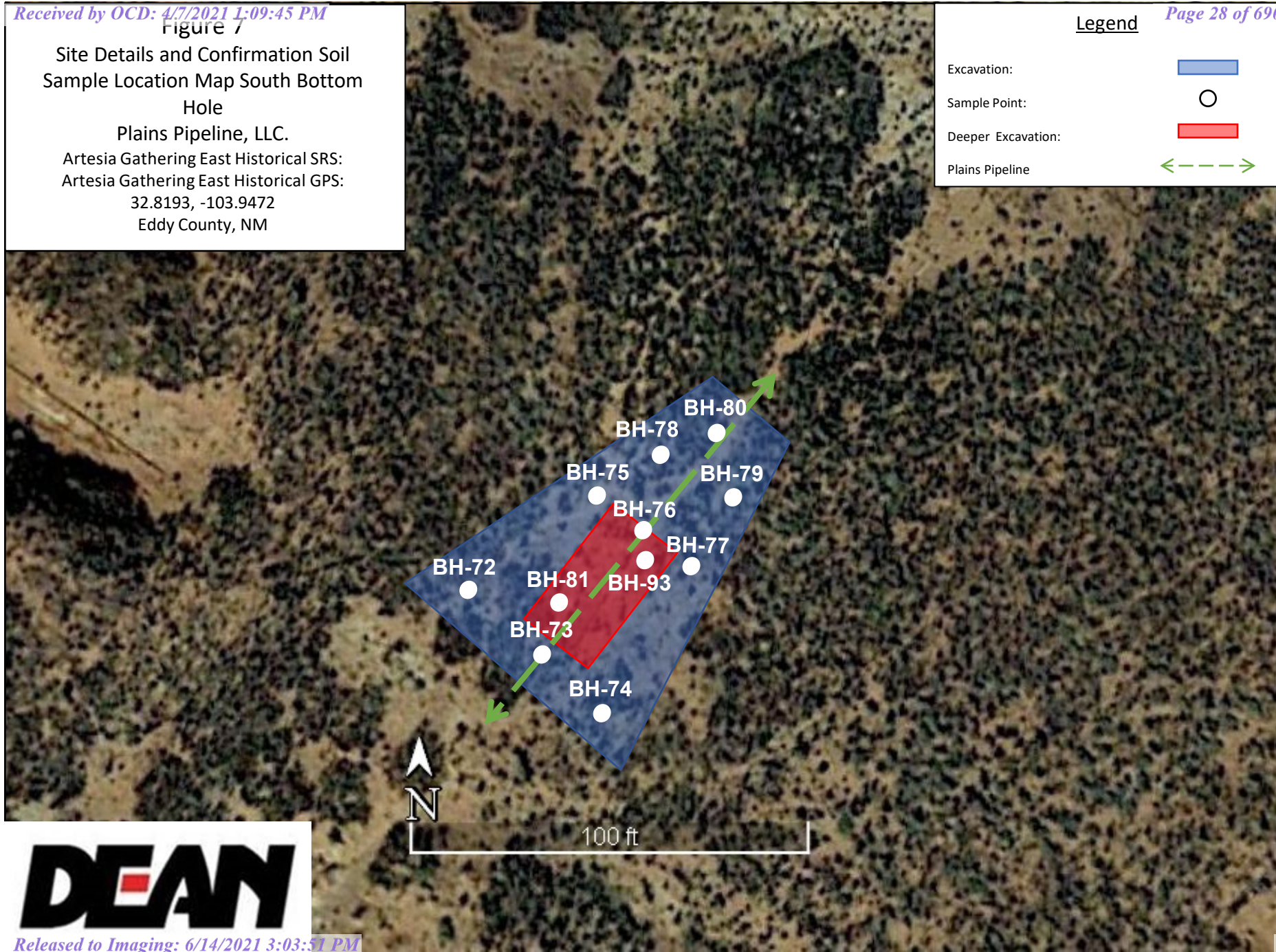
Sample Point:



Deeper Excavation:



Plains Pipeline



**DEAN**



Figure 8

Site Details and Confirmation Soil  
Sample Location Map South Side  
Wall

Plains Pipeline, LLC

Artesia Gathering East Historical SRS:

Artesia Gathering East Historical GPS:

32.8193, -103.9472

Eddy County, NM

Legend

Excavation:



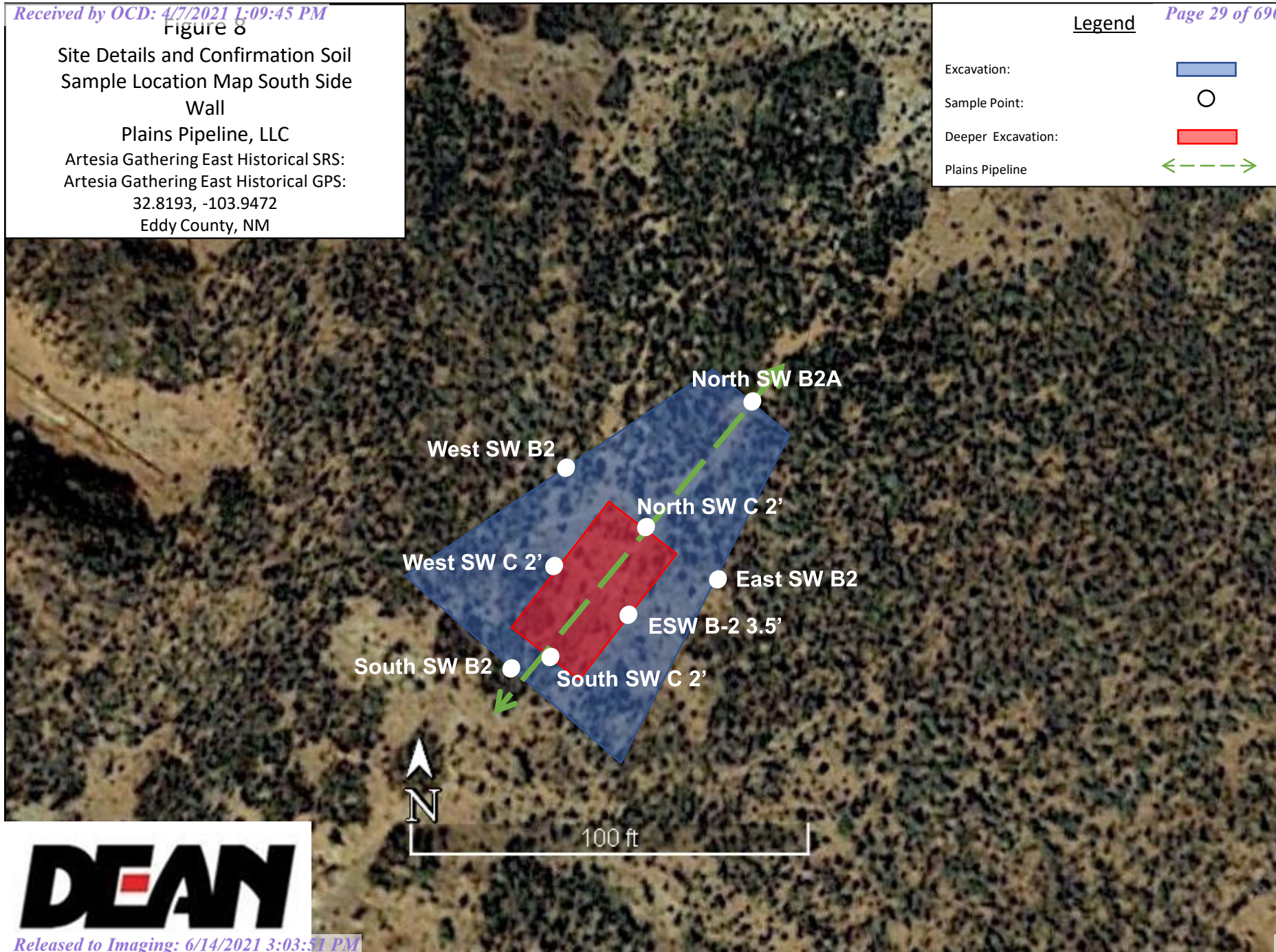
Sample Point:



Deeper Excavation:



Plains Pipeline



**DEAN**

**APPENDIX A**  
**NMOCD C-141 FORMS**

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NRM2020631097
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Plains Pipeline, L.P.	OGRID 713291
Contact Name Amber Groves	Contact Telephone 575-200-5517
Contact email algroves@paalp.com	Incident # (assigned by OCD)
Contact mailing address 3112 W. US Hwy 82, Lovington, NM 88260	

### Location of Release Source

Latitude 32.8193

Longitude -103.9472

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Artesia Gathering East Historical	Site Type Pipeline
Date Release Discovered 7/20/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	23	17S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) Unknown
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

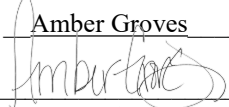
Historical pipeline release discovered during pipeline relinquishment inspection.

Incident ID	NRM2020631097
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Amber Groves</u>	Title: <u>Remediation Coordinator</u>
Signature: 	Date: <u>7/21/2020</u>
email: <u>algroves@paalp.com</u>	Telephone: <u>(575)200-5517</u>
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>7/24/2020</u>

## **APPENDIX B**

### **NMOSE WATER WELL DATA**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">RA 11914 POD1</a>		RA	ED	2	4	2	20	17S	30E	594801	3632002	85	80	5

Average Depth to Water: **80 feet**

Minimum Depth: **80 feet**

Maximum Depth: **80 feet**

**Record Count:** 1

**PLSS Search:**

**Section(s):** 20

**Township:** 17S

**Range:** 30E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/15/20 10:27 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

## **APPENDIX C**

### **LABORATORY ANALYTICAL REPORTS**

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Jeff Kindley  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0G09002



NELAP/TCEQ # T104704516-18-9

Report Date: 07/14/20



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 1'	0G09002-01	Soil	07/07/20 09:12	07-09-2020 10:07
AH-1 @ 2'	0G09002-02	Soil	07/07/20 09:14	07-09-2020 10:07
AH-1 @ 3'	0G09002-03	Soil	07/07/20 09:20	07-09-2020 10:07
AH-3 @ 1'	0G09002-04	Soil	07/07/20 09:36	07-09-2020 10:07
AH-3 @ 3'	0G09002-05	Soil	07/07/20 09:12	07-09-2020 10:07
AH-4 @ 1'	0G09002-06	Soil	07/07/20 09:50	07-09-2020 10:07
AH-4 @ 3'	0G09002-07	Soil	07/07/20 09:57	07-09-2020 10:07
AH-7 @ 1'	0G09002-08	Soil	07/07/20 11:04	07-09-2020 10:07
AH-7 @ 3'	0G09002-09	Soil	07/07/20 11:09	07-09-2020 10:07
AH-9 @ 1'	0G09002-10	Soil	07/07/20 11:24	07-09-2020 10:07
AH-9 @ 3'	0G09002-11	Soil	07/07/20 11:31	07-09-2020 10:07
AH-11 @ Surface	0G09002-12	Soil	07/07/20 12:30	07-09-2020 10:07
AH-11 @ 1'	0G09002-13	Soil	07/07/20 12:35	07-09-2020 10:07
AH-11 @ 3'	0G09002-14	Soil	07/07/20 12:45	07-09-2020 10:07
AH-12 @ 1'	0G09002-15	Soil	07/07/20 13:10	07-09-2020 10:07
AH-12 @ 3'	0G09002-16	Soil	07/07/20 13:15	07-09-2020 10:07

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-1 @ 1'**  
**0G09002-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B
Toluene	0.0144	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B
Ethylbenzene	0.00276	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B
Xylene (p/m)	0.00774	0.00202	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B
Xylene (o)	0.00123	0.00101	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		98.0 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		98.9 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.17	1.01	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0
% Moisture	1.0	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M
>C12-C28	889	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M
>C28-C35	538	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.8 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M
Surrogate: o-Terphenyl		100 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	1430	25.3	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-1 @ 2'**  
**0G09002-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Toluene</b>	<b>0.00627</b>	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.11</b>	1.02	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>406</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>233</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.0 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		97.0 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>639</b>	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-1 @ 3'**  
**0G09002-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Toluene</b>	<b>0.0190</b>	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00491</b>	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0138</b>	0.00204	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00253</b>	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.6 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>12.4</b>	1.02	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>307</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>165</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>472</b>	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-3 @ 1'**  
**0G09002-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Toluene</b>	<b>0.00618</b>	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.5 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.28</b>	1.03	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>872</b>	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>583</b>	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.9 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1460</b>	25.8	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-3 @ 3'**  
**0G09002-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Toluene</b>	<b>0.00411</b>	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.9 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.20</b>	1.03	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1130</b>	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>554</b>	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		98.2 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1690</b>	25.8	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-4 @ 1'**  
**0G09002-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Toluene</b>	<b>0.00463</b>	0.00100	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00108</b>	0.00100	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00360</b>	0.00200	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.17</b>	1.00	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>30.1</b>	25.0	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>30.1</b>	25.0	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-4 @ 3'**  
**0G09002-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Toluene</b>	<b>0.00235</b>	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>13.0</b>	1.03	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-7 @ 1'**  
**0G09002-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00103</b>	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
<b>Toluene</b>	<b>0.00446</b>	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.9 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.5 %	75-125		P0G0908	07/09/20	07/09/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.50</b>	1.02	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C12-C28	<b>1740</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C28-C35	<b>861</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>2600</b>	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-7 @ 3'**  
**0G09002-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00300</b>	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.5 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.97</b>	1.02	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>844</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>451</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.8 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1290</b>	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-9 @ 1'**  
**0G09002-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00776</b>	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00251</b>	0.00204	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.4 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.35</b>	1.02	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1280</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>610</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1890</b>	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-9 @ 3'**  
**0G09002-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00417</b>	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.9 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>11.3</b>	1.02	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1380</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>655</b>	25.5	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		98.2 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>2040</b>	25.5	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-11 @ Surface**  
**0G09002-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00239</b>	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.4 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>9.94</b>	1.01	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>43.6</b>	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>43.6</b>	25.3	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-11 @ 1'**  
**0G09002-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00511</b>	0.00100	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.0 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>12.4</b>	1.00	mg/kg dry	1	P0G0912	07/09/20	07/09/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>129</b>	25.0	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>63.5</b>	25.0	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.0 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>193</b>	25.0	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-11 @ 3'**  
**0G09002-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00410</b>	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00103</b>	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00393</b>	0.00202	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.9 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>9.79</b>	1.01	mg/kg dry	1	P0G0912	07/09/20	07/10/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>97.5</b>	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>41.5</b>	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.8 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>139</b>	25.3	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-12 @ 1'**  
**0G09002-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00487</b>	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00102</b>	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00303</b>	0.00202	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.9 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.1 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>10.0</b>	1.01	mg/kg dry	1	P0G0912	07/09/20	07/10/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>140</b>	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>56.6</b>	25.3	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.7 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>196</b>	25.3	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-12 @ 3'**  
**0G09002-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Toluene</b>	<b>0.00148</b>	0.00103	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00225</b>	0.00206	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0G0909	07/09/20	07/10/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.79</b>	1.03	mg/kg dry	1	P0G0912	07/09/20	07/10/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0G1007	07/10/20	07/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0G0907	07/09/20	07/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	07/09/20	07/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G0908 - General Preparation (GC)****Blank (P0G0908-BLK1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			

**LCS (P0G0908-BS1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0982	0.00100	"	0.100		98.2	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.215	0.00200	"	0.200		108	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.6	75-125			

**LCS Dup (P0G0908-BSD1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	70-130	5.83	20	
Toluene	0.105	0.00100	"	0.100		105	70-130	6.65	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	2.53	20	
Xylene (p/m)	0.228	0.00200	"	0.200		114	70-130	5.81	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	7.53	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

**Calibration Blank (P0G0908-CCB1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.730		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.310		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G0908 - General Preparation (GC)****Calibration Blank (P0G0908-CCB2)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.960		"							
Ethylbenzene	0.490		"							
Xylene (p/m)	1.23		"							
Xylene (o)	0.380		"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		109	75-125			

**Calibration Blank (P0G0908-CCB3)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.950		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.440		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		87.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			

**Calibration Check (P0G0908-CCV1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.0930	0.00100	"	0.100		93.0	80-120			
Ethylbenzene	0.0963	0.00100	"	0.100		96.3	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	80-120			
Xylene (o)	0.0989	0.00100	"	0.100		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	75-125			

**Calibration Check (P0G0908-CCV2)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G0908 - General Preparation (GC)****Calibration Check (P0G0908-CCV3)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			

**Matrix Spike (P0G0908-MS1)**

Source: 0G08013-01

Prepared &amp; Analyzed: 07/09/20

Benzene	0.0782	0.00102	mg/kg dry	0.102	ND	76.6	80-120			QM-07
Toluene	0.0753	0.00102	"	0.102	ND	73.8	80-120			QM-07
Ethylbenzene	0.0958	0.00102	"	0.102	ND	93.9	80-120			
Xylene (p/m)	0.164	0.00204	"	0.204	0.00119	79.8	80-120			QM-07
Xylene (o)	0.0781	0.00102	"	0.102	0.000510	76.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.121		"	0.122		98.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.122		107	75-125			

**Matrix Spike Dup (P0G0908-MSD1)**

Source: 0G08013-01

Prepared &amp; Analyzed: 07/09/20

Benzene	0.0923	0.00102	mg/kg dry	0.102	ND	90.5	80-120	16.6	20	
Toluene	0.0836	0.00102	"	0.102	ND	82.0	80-120	10.4	20	
Ethylbenzene	0.105	0.00102	"	0.102	ND	103	80-120	9.31	20	
Xylene (p/m)	0.179	0.00204	"	0.204	0.00119	87.0	80-120	8.72	20	
Xylene (o)	0.0880	0.00102	"	0.102	0.000510	85.7	80-120	12.0	20	
Surrogate: 1,4-Difluorobenzene	0.122		"	0.122		99.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.122		104	75-125			

**Batch P0G0909 - General Preparation (GC)****Blank (P0G0909-BLK1)**

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.2	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G0909 - General Preparation (GC)****LCS (P0G0909-BS1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.0938	0.00100	mg/kg wet	0.100		93.8	70-130			
Toluene	0.0918	0.00100	"	0.100		91.8	70-130			
Ethylbenzene	0.0992	0.00100	"	0.100		99.2	70-130			
Xylene (p/m)	0.195	0.00200	"	0.200		97.4	70-130			
Xylene (o)	0.0942	0.00100	"	0.100		94.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	75-125			

**LCS Dup (P0G0909-BSD1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	10.3	20	
Toluene	0.0968	0.00100	"	0.100		96.8	70-130	5.33	20	
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130	1.15	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	4.74	20	
Xylene (o)	0.102	0.00100	"	0.100		102	70-130	8.03	20	
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.3	75-125			

**Calibration Blank (P0G0909-CCB1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.00		mg/kg wet							
Toluene	0.950		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.440		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.106		"	0.120		87.9	75-125			

**Calibration Blank (P0G0909-CCB2)**

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	0.00		mg/kg wet							
Toluene	0.490		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.400		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		86.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.8	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G0909 - General Preparation (GC)****Calibration Check (P0G0909-CCV1)**

Prepared &amp; Analyzed: 07/09/20

Benzene	0.110	0.00100	mg/kg wet	0.100		110	80-120			
Toluene	0.0996	0.00100	"	0.100		99.6	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			

**Calibration Check (P0G0909-CCV2)**

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.213	0.00200	"	0.200		106	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	75-125			

**Matrix Spike (P0G0909-MS1)**

Source: 0G09002-09

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	0.0788	0.00102	mg/kg dry	0.102	ND	77.2	80-120			QM-07
Toluene	0.0534	0.00102	"	0.102	0.00300	49.4	80-120			QM-07
Ethylbenzene	0.0445	0.00102	"	0.102	ND	43.6	80-120			QM-07
Xylene (p/m)	0.0710	0.00204	"	0.204	ND	34.8	80-120			QM-07
Xylene (o)	0.0294	0.00102	"	0.102	ND	28.9	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.116		"	0.122		94.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.122		101	75-125			

**Matrix Spike Dup (P0G0909-MSD1)**

Source: 0G09002-09

Prepared: 07/09/20 Analyzed: 07/10/20

Benzene	0.0784	0.00102	mg/kg dry	0.102	ND	76.8	80-120	0.467	20	QM-07
Toluene	0.0497	0.00102	"	0.102	0.00300	45.8	80-120	7.46	20	QM-07
Ethylbenzene	0.0397	0.00102	"	0.102	ND	38.9	80-120	11.4	20	QM-07
Xylene (p/m)	0.0628	0.00204	"	0.204	ND	30.8	80-120	12.2	20	QM-07
Xylene (o)	0.0271	0.00102	"	0.102	ND	26.6	80-120	8.19	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.110		"	0.122		89.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.122		102	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G0912 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0G0912-BLK1)**

Prepared &amp; Analyzed: 07/09/20

Chloride	ND	1.00	mg/kg wet
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**LCS (P0G0912-BS1)**

Prepared &amp; Analyzed: 07/09/20

Chloride	402	1.00	mg/kg wet	400	101	80-120
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**LCS Dup (P0G0912-BSD1)**

Prepared &amp; Analyzed: 07/09/20

Chloride	401	1.00	mg/kg wet	400	100	80-120	0.476	20
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**Calibration Check (P0G0912-CCV1)**

Prepared &amp; Analyzed: 07/09/20

Chloride	19.0		mg/kg	20.0	95.1	0-200
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**Calibration Check (P0G0912-CCV2)**

Prepared &amp; Analyzed: 07/09/20

Chloride	19.0		mg/kg	20.0	95.0	0-200
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**Matrix Spike (P0G0912-MS1)****Source: 0G09002-01**

Prepared &amp; Analyzed: 07/09/20

Chloride	483	1.01	mg/kg dry	505	6.17	94.4	80-120
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**Matrix Spike (P0G0912-MS2)****Source: 0G09002-11**

Prepared &amp; Analyzed: 07/09/20

Chloride	495	1.02	mg/kg dry	510	11.3	94.8	80-120
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**Matrix Spike Dup (P0G0912-MSD1)****Source: 0G09002-01**

Prepared &amp; Analyzed: 07/09/20

Chloride	483	1.01	mg/kg dry	505	6.17	94.4	80-120	0.0146	20
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**Matrix Spike Dup (P0G0912-MSD2)****Source: 0G09002-11**

Prepared &amp; Analyzed: 07/09/20

Chloride	532	1.02	mg/kg dry	510	11.3	102	80-120	7.11	20
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**Batch P0G1007 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0G1007-BLK1)**

Prepared &amp; Analyzed: 07/10/20

% Moisture	ND	0.1	%
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G1007 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P0G1007-BLK2)**

Prepared & Analyzed: 07/10/20

% Moisture	ND	0.1	%
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**Blank (P0G1007-BLK3)**

Prepared & Analyzed: 07/10/20

% Moisture	ND	0.1	%
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**Blank (P0G1007-BLK4)**

Prepared & Analyzed: 07/10/20

% Moisture	ND	0.1	%
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**Duplicate (P0G1007-DUP1)**

Source: 0G08026-10

Prepared & Analyzed: 07/10/20

% Moisture	7.0	0.1	%	7.0	0.00	20
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**Duplicate (P0G1007-DUP2)**

Source: 0G08027-08

Prepared & Analyzed: 07/10/20

% Moisture	4.0	0.1	%	4.0	0.00	20
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**Duplicate (P0G1007-DUP3)**

Source: 0G09002-15

Prepared & Analyzed: 07/10/20

% Moisture	1.0	0.1	%	1.0	0.00	20
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**Duplicate (P0G1007-DUP7)**

Source: 0G09010-08

Prepared & Analyzed: 07/10/20

% Moisture	13.0	0.1	%	13.0	0.00	20
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Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0G0907 - TX 1005****Blank (P0G0907-BLK1)**

Prepared: 07/09/20 Analyzed: 07/10/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.5	70-130			

**LCS (P0G0907-BS1)**

Prepared: 07/09/20 Analyzed: 07/10/20

C6-C12	897	25.0	mg/kg wet	1000		89.7	75-125			
>C12-C28	1040	25.0	"	1000		104	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	42.4		"	50.0		84.8	70-130			

**LCS Dup (P0G0907-BSD1)**

Prepared: 07/09/20 Analyzed: 07/10/20

C6-C12	898	25.0	mg/kg wet	1000		89.8	75-125	0.0747	20	
>C12-C28	1040	25.0	"	1000		104	75-125	0.375	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.7	70-130			

**Calibration Check (P0G0907-CCV1)**

Prepared &amp; Analyzed: 07/09/20

C6-C12	472	25.0	mg/kg wet	500		94.3	85-115			
>C12-C28	518	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	95.9		"	100		95.9	70-130			
Surrogate: o-Terphenyl	42.4		"	50.0		84.7	70-130			

**Calibration Check (P0G0907-CCV3)**

Prepared: 07/09/20 Analyzed: 07/10/20

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	44.7		"	50.0		89.4	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0G0907 - TX 1005**

<b>Matrix Spike (P0G0907-MS1)</b>	<b>Source: 0G09002-16</b>			Prepared: 07/09/20		Analyzed: 07/10/20				
C6-C12	1060	25.8	mg/kg dry	1030	13.3	101	75-125			
>C12-C28	1230	25.8	"	1030	17.6	118	75-125			
Surrogate: 1-Chlorooctane	122		"	103		119	70-130			
Surrogate: o-Terphenyl	49.2		"	51.5		95.4	70-130			
<b>Matrix Spike Dup (P0G0907-MSD1)</b>	<b>Source: 0G09002-16</b>			Prepared: 07/09/20		Analyzed: 07/10/20				
C6-C12	1060	25.8	mg/kg dry	1030	13.3	102	75-125	0.606	20	
>C12-C28	1230	25.8	"	1030	17.6	118	75-125	0.0732	20	
Surrogate: 1-Chlorooctane	124		"	103		120	70-130			
Surrogate: o-Terphenyl	53.1		"	51.5		103	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### Notes and Definitions

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/14/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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**PERMIAIR**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
10014 S. County Road 1213  
Midland, Texas 79706

Phone: 432-686-7235

Project Manager: Jeffrey KinleyCompany Name: Dean ServiceCompany Address: 12600 WCR 91City/State/Zip: Midland, TX 79707Telephone No.: 432-230-0920Sampler Signature: [Signature]Fax No:  
e-mail:Project Name: Basin Area's Contingency WestProject #: PR-9076Project Loc: Edley, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(Lab use only)  
ORDER #: 0609002

Preservation &amp; # of Containers

Matrix

Kaylen Longue  
Sylvia Reynolds  
Eugene Smith  
Jeff Kinley

Analyze For:

TCLP:  
TOTAL:

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub>

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: TX 1005 TX 1006

Anions (Cl, SO<sub>4</sub>, Alkalinity)

BTEX 8021B/8030 or BTEX 8280

TPH 8015 M ext

Alkalinity

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Insured?

VOCs Free of Headspace?

Labels on containers?

Custody seals on containers?

Custody seals on cooler(s)?

Sample Hand Delivered

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 41 °C

Adjusted: 5.1 °C Factor

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Jeff Kindley  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0G09003



**NELAP/TCEQ # T104704516-18-9**

Report Date: 07/20/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-6 @ 1'	0G09003-15	Soil	07/07/20 10:53	07-09-2020 10:07
AH-6 @ 2'	0G09003-16	Soil	07/07/20 10:54	07-09-2020 10:07
AH-6 @ 3'	0G09003-17	Soil	07/07/20 10:56	07-09-2020 10:07
AH-8 @ 1'	0G09003-21	Soil	07/07/20 11:14	07-09-2020 10:07
AH-8 @ 3'	0G09003-23	Soil	07/07/20 11:18	07-09-2020 10:07
AH-10 @ 1'	0G09003-27	Soil	07/07/20 11:40	07-09-2020 10:07
AH-10 @ 3'	0G09003-29	Soil	07/07/20 11:50	07-09-2020 10:07

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-6 @ 1'**  
**0G09003-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0G1007	07/10/20	07/15/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
>C12-C28	841	25.3	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
>C28-C35	391	25.3	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
Surrogate: 1-Chlorooctane		70.5 %	70-130		P0G1405	07/14/20	07/14/20	TPH 8015M
Surrogate: o-Terphenyl		74.9 %	70-130		P0G1405	07/14/20	07/14/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1230</b>	25.3	mg/kg dry	1	[CALC]	07/14/20	07/14/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean	Project: Plains Artesia Gathering East	Fax:
12600 W County Rd 91	Project Number: PP-2075	
Midland TX, 79707	Project Manager: Jeff Kindley	

AH-6 @ 2'  
0G09003-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods									
% Moisture	1.0	0.1	%	1	P0G1007	07/10/20	07/15/20	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-6 @ 3'**  
**0G09003-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0G1007	07/10/20	07/15/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
>C12-C28	<b>707</b>	25.8	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
>C28-C35	<b>360</b>	25.8	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
Surrogate: 1-Chlorooctane		76.8 %	70-130		P0G1405	07/14/20	07/14/20	TPH 8015M
Surrogate: o-Terphenyl		79.3 %	70-130		P0G1405	07/14/20	07/14/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1070</b>	25.8	mg/kg dry	1	[CALC]	07/14/20	07/14/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-8 @ 1'**  
**0G09003-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0G1007	07/10/20	07/15/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0G1405	07/14/20	07/17/20	TPH 8015M
>C12-C28	<b>316</b>	25.3	mg/kg dry	1	P0G1405	07/14/20	07/17/20	TPH 8015M
>C28-C35	<b>204</b>	25.3	mg/kg dry	1	P0G1405	07/14/20	07/17/20	TPH 8015M
Surrogate: 1-Chlorooctane		90.2 %	70-130		P0G1405	07/14/20	07/17/20	TPH 8015M
Surrogate: o-Terphenyl		99.6 %	70-130		P0G1405	07/14/20	07/17/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>520</b>	25.3	mg/kg dry	1	[CALC]	07/14/20	07/17/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-8 @ 3'**  
**0G09003-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/15/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
>C12-C28	<b>646</b>	25.5	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
>C28-C35	<b>258</b>	25.5	mg/kg dry	1	P0G1405	07/14/20	07/14/20	TPH 8015M
Surrogate: 1-Chlorooctane		73.4 %	70-130		P0G1405	07/14/20	07/14/20	TPH 8015M
Surrogate: o-Terphenyl		75.5 %	70-130		P0G1405	07/14/20	07/14/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>904</b>	25.5	mg/kg dry	1	[CALC]	07/14/20	07/14/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-10 @ 1'**  
**0G09003-27 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0G1007	07/10/20	07/15/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0G1405	07/14/20	07/15/20	TPH 8015M
>C12-C28	<b>1260</b>	25.3	mg/kg dry	1	P0G1405	07/14/20	07/15/20	TPH 8015M
>C28-C35	<b>611</b>	25.3	mg/kg dry	1	P0G1405	07/14/20	07/15/20	TPH 8015M
Surrogate: 1-Chlorooctane		75.4 %	70-130		P0G1405	07/14/20	07/15/20	TPH 8015M
Surrogate: o-Terphenyl		83.8 %	70-130		P0G1405	07/14/20	07/15/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1870</b>	25.3	mg/kg dry	1	[CALC]	07/14/20	07/15/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**AH-10 @ 3'**  
**0G09003-29 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0G1007	07/10/20	07/15/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0G1405	07/14/20	07/15/20	TPH 8015M
>C12-C28	<b>536</b>	25.5	mg/kg dry	1	P0G1405	07/14/20	07/15/20	TPH 8015M
>C28-C35	<b>302</b>	25.5	mg/kg dry	1	P0G1405	07/14/20	07/15/20	TPH 8015M
Surrogate: 1-Chlorooctane		112 %	70-130		P0G1405	07/14/20	07/15/20	TPH 8015M
Surrogate: o-Terphenyl		116 %	70-130		P0G1405	07/14/20	07/15/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>838</b>	25.5	mg/kg dry	1	[CALC]	07/14/20	07/15/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P0G1007 - *** DEFAULT PREP ***</b>										
<b>Blank (P0G1007-BLK1)</b>	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0G1007-BLK2)</b>	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0G1007-BLK3)</b>	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0G1007-BLK4)</b>	Prepared & Analyzed: 07/10/20									
% Moisture	ND	0.1	%							
<b>Duplicate (P0G1007-DUP1)</b>	<b>Source: 0G08026-10</b>		Prepared & Analyzed: 07/10/20							
% Moisture	7.0	0.1	%		7.0			0.00	20	
<b>Duplicate (P0G1007-DUP2)</b>	<b>Source: 0G08027-08</b>		Prepared & Analyzed: 07/10/20							
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P0G1007-DUP3)</b>	<b>Source: 0G09002-15</b>		Prepared & Analyzed: 07/10/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P0G1007-DUP7)</b>	<b>Source: 0G09010-08</b>		Prepared & Analyzed: 07/10/20							
% Moisture	13.0	0.1	%		13.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0G1405 - TX 1005****Blank (P0G1405-BLK1)**

Prepared &amp; Analyzed: 07/14/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	76.3		"	100		76.3	70-130			
Surrogate: o-Terphenyl	38.4		"	50.0		76.8	70-130			

**LCS (P0G1405-BS1)**

Prepared &amp; Analyzed: 07/14/20

C6-C12	954	25.0	mg/kg wet	1000		95.4	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	92.4		"	100		92.4	70-130			
Surrogate: o-Terphenyl	39.4		"	50.0		78.8	70-130			

**LCS Dup (P0G1405-BSD1)**

Prepared &amp; Analyzed: 07/14/20

C6-C12	944	25.0	mg/kg wet	1000		94.4	75-125	1.12	20	
>C12-C28	1110	25.0	"	1000		111	75-125	1.67	20	
Surrogate: 1-Chlorooctane	88.2		"	100		88.2	70-130			
Surrogate: o-Terphenyl	35.4		"	50.0		70.8	70-130			

**Calibration Check (P0G1405-CCV1)**

Prepared &amp; Analyzed: 07/14/20

C6-C12	470	25.0	mg/kg wet	500		94.1	85-115			
>C12-C28	489	25.0	"	500		97.8	85-115			
Surrogate: 1-Chlorooctane	75.7		"	100		75.7	70-130			
Surrogate: o-Terphenyl	33.7		"	50.0		67.5	70-130			S-GC

**Calibration Check (P0G1405-CCV2)**

Prepared &amp; Analyzed: 07/14/20

C6-C12	437	25.0	mg/kg wet	500		87.4	85-115			
>C12-C28	452	25.0	"	500		90.3	85-115			
Surrogate: 1-Chlorooctane	70.5		"	100		70.5	70-130			
Surrogate: o-Terphenyl	29.9		"	50.0		59.8	70-130			S-GC

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0G1405 - TX 1005**

<b>Matrix Spike (P0G1405-MS1)</b>		<b>Source: 0G13003-25</b>		Prepared & Analyzed: 07/14/20						
C6-C12	1010	28.7	mg/kg dry	1150	10.9	87.9	75-125			
>C12-C28	1150	28.7	"	1150	18.6	98.4	75-125			
Surrogate: 1-Chlorooctane	90.2		"	115		78.5	70-130			
Surrogate: o-Terphenyl	36.2		"	57.5		62.9	70-130			S-GC
<b>Matrix Spike Dup (P0G1405-MSD1)</b>		<b>Source: 0G13003-25</b>		Prepared & Analyzed: 07/14/20						
C6-C12	990	28.7	mg/kg dry	1150	10.9	86.2	75-125	2.02	20	
>C12-C28	1140	28.7	"	1150	18.6	97.2	75-125	1.22	20	
Surrogate: 1-Chlorooctane	90.0		"	115		78.3	70-130			
Surrogate: o-Terphenyl	36.4		"	57.5		63.3	70-130			S-GC

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/20/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Pernian Basin Environmental Lab, LP  
10014 S. County Road 1213  
Midland, Texas 79706

Phone: 432-686-7235

Project Manager: Jeffery KindlyCompany Name: Dean SavvaCompany Address: 12000 WCE 91City/State/Zip: M. Jind, TX 79707Telephone No: 432-230-0920

Fax No:

Sampler Signature: [Signature]

e-mail:

Kaylan Long  
Sylvia Raynolds  
Erin Just  
Jeff Kindly

Report Format: ☒ Standard ☐ TRRP ☐ NPDESProject Name: Plains Artesia Cooling WaterProject #: PR-9076Project Loc: Edley, NM

PO #:

ORDER #: 0609003

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 or BTEX 8260
1	AH-1 (Surface)	0	0	07/07/20	908		1														
2	AH-2 Surface	0	0	07/07/20	920		1														
3	AH-2 1'	1'	1'	07/07/20	925		1														
4	AH-2 2'	2'	2'	07/07/20	929		1														
5	AH-2 3'	3'	3'	07/07/20	932		1														
6	AH-3 Surface	0	0	07/07/20	934		1														
7	AH-3 (2')	2'	2'	07/07/20	939		1														
8	AH-4 Surface	0	0	07/07/20	945		1														
9	AH-4 (2')	2'	2'	07/07/20	954		1														
10	AH-5 Surface	0	0	07/07/20	1038		1														

Special Instructions:

Field

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Received by PERM: Anna Bedore

Date

Time

Laboratory Comments:  
Sample Containers (Initials)?  
VOCs Free of Headspace?  
Labels on containers?  
Custody seals on containers?  
Custody seals on cooler(s)?  
Sample Hand Delivered by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star  
Temperature Upon Receipt: 5.1 °C/Factor CFE  
Received: 5.1 °C/Factor CFE

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT





**PERM LAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
10014 S. County Road 1213  
Midland, Texas 79706

Phone: 432-686-7235

Project Manager:

J. Kelly Kindly

Company Name

Dean Service

Company Address:

12600 WCR 91

City/State/Zip:

Midland, TX 79707

Telephone No:

432-280-0920

Fax No:

Sampler Signature:

[Signature]

e-mail:

Kaylen Longue  
Sylvia Reynolds  
Eugene Smith  
JEFF Kindly

Report Format:

☒ Standard☐ TRRP☐ NPDES

Project Name:

Plains Area Gas Plant

Project #:

PR-9076

Project Loc:

Eddy, NM

PO #:

(Lab use only)  
ORDER #: 0609003

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 or BTEX 6260	
21	AA-8 (1')	1'	1'	07/07/20	1104		1	✓														
22	AA-8 (2')	2'	2'	07/07/20	1116		1	✓														
23	AA-8 (3')	3'	3'	07/07/20	1118		1	✓														
24	AA-9 Surface	0'	0'	07/07/20	1120		1	✓														
25	AA-9 (2')	2'	2'	07/07/20	1127		1	✓														
26	AA-10 Surface	0'	0'	07/07/20	1134		1	✓														
27	AA-10 (1')	1'	1'	07/07/20	1140		1	✓														
28	AA-10 (2')	2'	2'	07/07/20	1146		1	✓														
29	AA-10 (3')	3'	3'	07/07/20	1150		1	✓														
30	AA-11 (2')	2'	2'	07/07/20	1246		1	✓														

Special Instructions:

MSD

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers intact?

VOCs Free of Headspace?

Labels on containers?

Custody seals on containers?

Sample Hand Delivered?

by Sampler/Client Rep.?

by Counter?

Temperature Upon Receipt:

Adjusted:

N

N

N

N

N

N

N

N

N

N

°C Factor

5.1

CFL

12

N

N

N

N

N



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
10014 S. County Road 1213  
Midland, Texas 79706

Phone: 432-686-7235

Project Manager:

Jeffery Kindley

Company Name

Dean Service

Company Address:

12600 WCR 91

City/State/Zip:

Midland, TX 79707

Telephone No:

432-230-0920

Fax No:

Sampler Signature:

[Signature]

e-mail:

ORDER #: 0609003

(Lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	ICLF: TOTAL:	Analyze For:	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
31	AA-12 (Surface)	0	0	07/07/20	105		1	✓																	
32	AA-12 (2')	2'	2'	07/07/20	113		1	✓																	

Special Instructions:

Hold

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Project Name:

Plains Area Gateway Way

Project #:

PP-9076

Project Loc:

Edly Co, NM

PO #:

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on containers?

Custom seals on containers?

Sample Hand Delivered?

by Courier?

Temperature Upon Receipt:

Adjusted:

Y

Y

Y

Y

Y

Y

Y

Y

Y

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Jeff Kindley  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Lea County, NM

Lab Order Number: 0I11001



NELAP/TCEQ # T104704516-17-8

Report Date: 09/21/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-3 @ 3'	0I11001-01	Soil	09/08/20 14:09	09-10-2020 16:59
BH-5 @ 3'	0I11001-02	Soil	09/08/20 14:11	09-10-2020 16:59
BH-4 @ 3'	0I11001-03	Soil	09/08/20 14:10	09-10-2020 16:59
BH-1 @ 3'	0I11001-04	Soil	09/08/20 14:07	09-10-2020 16:59
BH-7 @ 3'	0I11001-05	Soil	09/08/20 14:14	09-10-2020 16:59
BH-2 @ 3'	0I11001-06	Soil	09/08/20 14:08	09-10-2020 16:59
East SW-1 @ 1.5'	0I11001-07	Soil	09/08/20 13:30	09-10-2020 16:59
North SW-1 @ 1.5'	0I11001-08	Soil	09/08/20 13:40	09-10-2020 16:59
South SW @ 6"	0I11001-09	Soil	09/08/20 13:50	09-10-2020 16:59
South SW-2 @ 2'	0I11001-10	Soil	09/08/20 14:00	09-10-2020 16:59



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-3 @ 3'**  
**0I11001-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0450</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B
<b>Toluene</b>	<b>0.0360</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B
<b>Ethylbenzene</b>	<b>0.00854</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B
<b>Xylene (p/m)</b>	<b>0.00331</b>	0.00200	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B
<i>Surrogate: 4-Bromofluorobenzene</i>		78.8 %	75-125		P0I1105	09/11/20	09/11/20	EPA 8021B
<i>Surrogate: 1,4-Difluorobenzene</i>		87.0 %	75-125		P0I1105	09/11/20	09/11/20	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.75</b>	1.00	mg/kg dry	1	P0I1607	09/16/20	09/18/20	EPA 300.0
% Moisture	ND	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M
<b>&gt;C12-C28</b>	<b>71.0</b>	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M
<b>&gt;C28-C35</b>	<b>30.4</b>	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		113 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		125 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>101</b>	25.0	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-5 @ 3'**  
**0I11001-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0224</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0175</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00337</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		75.3 %	75-125		P011105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.9 %	75-125		P011105	09/11/20	09/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.21</b>	1.00	mg/kg dry	1	P011607	09/16/20	09/21/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P011106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C12-C28	<b>30.8</b>	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>30.8</b>	25.0	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-4 @ 3'**  
**0I11001-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0185</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0167</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00295</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.0 %	75-125		P011105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.5 %	75-125		P011105	09/11/20	09/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1.80</b>	1.00	mg/kg dry	1	P011607	09/16/20	09/18/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P011106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-1 @ 3'**  
**0I11001-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00389</b>	0.00101	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00206</b>	0.00101	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P011105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.3 %	75-125		P011105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.7 %	75-125		P011105	09/11/20	09/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1.15</b>	1.01	mg/kg dry	1	P011607	09/16/20	09/18/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P011106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C12-C28	<b>232</b>	25.3	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	<b>97.4</b>	25.3	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>330</b>	25.3	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-7 @ 3'**  
**0I11001-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0602</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0605</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0185</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00577</b>	0.00200	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00110</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		74.5 %	75-125		P0I1105	09/11/20	09/11/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		83.6 %	75-125		P0I1105	09/11/20	09/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1.03</b>	1.00	mg/kg dry	1	P0I1607	09/16/20	09/21/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		132 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-2 @ 3'**  
**0I11001-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00609</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00747</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00149</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		75.1 %	75-125		P0I1105	09/11/20	09/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.2 %	75-125		P0I1105	09/11/20	09/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.01	mg/kg dry	1	P0I1608	09/16/20	09/16/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		141 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**East SW-1 @ 1.5'**  
**0I11001-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0219</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.0147</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00291</b>	0.00100	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		76.6 %	75-125		P011105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P011105	09/11/20	09/12/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.16</b>	1.00	mg/kg dry	1	P011608	09/16/20	09/16/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P011106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**North SW-1 @ 1.5'**  
**0I11001-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0119</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.00686</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.7 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		68.4 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.13</b>	1.00	mg/kg dry	1	P0I1608	09/16/20	09/16/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>225</b>	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>93.9</b>	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>319</b>	25.0	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**South SW @ 6"**  
**0I11001-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0172</b>	0.00101	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.0124</b>	0.00101	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00273</b>	0.00101	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P011105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.9 %	75-125		P011105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		80.3 %	75-125		P011105	09/11/20	09/12/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	ND	1.01	mg/kg dry	1	P011608	09/16/20	09/16/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P011106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>26.2</b>	25.3	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-130		P011103	09/11/20	09/11/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>26.2</b>	25.3	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**South SW-2 @ 2'**  
**0I11001-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0739</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.0759</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0310</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0101</b>	0.00200	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00235</b>	0.00100	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		75.1 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		85.3 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1.53</b>	1.00	mg/kg dry	1	P0I1608	09/16/20	09/16/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		128 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011105 - General Preparation (GC)****Blank (P011105-BLK1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0904		"	0.120		75.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.0	75-125			

**LCS (P011105-BS1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.0953	0.00100	"	0.100		95.3	70-130			
Ethylbenzene	0.0993	0.00100	"	0.100		99.3	70-130			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	70-130			
Xylene (o)	0.101	0.00100	"	0.100		101	70-130			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0930		"	0.120		77.5	75-125			

**LCS Dup (P011105-BSD1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	70-130	12.4	20	
Toluene	0.0838	0.00100	"	0.100		83.8	70-130	12.8	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130	8.24	20	
Xylene (p/m)	0.163	0.00200	"	0.200		81.3	70-130	13.0	20	
Xylene (o)	0.0881	0.00100	"	0.100		88.1	70-130	13.6	20	
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0899		"	0.120		74.9	75-125			S-GC

**Calibration Check (P011105-CCV1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	80-120			
Toluene	0.0910	0.00100	"	0.100		91.0	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.171	0.00200	"	0.200		85.4	80-120			
Xylene (o)	0.0952	0.00100	"	0.100		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0888		"	0.120		74.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.7	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011105 - General Preparation (GC)****Calibration Check (P011105-CCV2)**

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.0923	0.00100	mg/kg wet	0.100		92.3	80-120			
Toluene	0.0896	0.00100	"	0.100		89.6	80-120			
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.0	80-120			
Xylene (o)	0.0952	0.00100	"	0.100		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0928		"	0.120		77.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.9	75-125			

**Calibration Check (P011105-CCV3)**

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.0957	0.00100	mg/kg wet	0.100		95.7	80-120			
Toluene	0.0861	0.00100	"	0.100		86.1	80-120			
Ethylbenzene	0.0930	0.00100	"	0.100		93.0	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.0922		"	0.120		76.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.6	75-125			

**Matrix Spike (P011105-MS1)**

Source: 0111001-01

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.105	0.00100	mg/kg dry	0.100	0.0450	60.0	80-120			QM-07
Toluene	0.0848	0.00100	"	0.100	0.0360	48.9	80-120			QM-07
Ethylbenzene	0.0661	0.00100	"	0.100	0.00854	57.5	80-120			QM-07
Xylene (p/m)	0.0939	0.00200	"	0.200	0.00331	45.3	80-120			QM-07
Xylene (o)	0.0441	0.00100	"	0.100	0.000820	43.3	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0913		"	0.120		76.1	75-125			

**Matrix Spike Dup (P011105-MSD1)**

Source: 0111001-01

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.101	0.00100	mg/kg dry	0.100	0.0450	55.6	80-120	7.63	20	QM-07
Toluene	0.0834	0.00100	"	0.100	0.0360	47.5	80-120	2.93	20	QM-07
Ethylbenzene	0.0658	0.00100	"	0.100	0.00854	57.3	80-120	0.488	20	QM-07
Xylene (p/m)	0.0940	0.00200	"	0.200	0.00331	45.3	80-120	0.0552	20	QM-07
Xylene (o)	0.0442	0.00100	"	0.100	0.000820	43.4	80-120	0.254	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0898		"	0.120		74.9	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I1106 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0I1106-BLK1)</b>	Prepared & Analyzed: 09/11/20									
% Moisture	ND	0.1	%							
<b>Blank (P0I1106-BLK2)</b>	Prepared & Analyzed: 09/11/20									
% Moisture	ND	0.1	%							
<b>Blank (P0I1106-BLK3)</b>	Prepared & Analyzed: 09/11/20									
% Moisture	ND	0.1	%							
<b>Duplicate (P0I1106-DUP1)</b>	<b>Source: 0I10001-10</b>		Prepared & Analyzed: 09/11/20							
% Moisture	4.0	0.1	%		5.0			22.2	20	
<b>Duplicate (P0I1106-DUP2)</b>	<b>Source: 0I10001-20</b>		Prepared & Analyzed: 09/11/20							
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P0I1106-DUP3)</b>	<b>Source: 0I10001-35</b>		Prepared & Analyzed: 09/11/20							
% Moisture	10.0	0.1	%		11.0			9.52	20	
<b>Duplicate (P0I1106-DUP4)</b>	<b>Source: 0I11001-08</b>		Prepared & Analyzed: 09/11/20							
% Moisture	ND	0.1	%		ND				20	

**Batch P0I1607 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0I1607-BLK1)</b>	Prepared: 09/16/20 Analyzed: 09/18/20									
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P0I1607-BS1)</b>	Prepared: 09/16/20 Analyzed: 09/18/20									
Chloride	423	1.00	mg/kg wet	400		106	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I1607 - \*\*\* DEFAULT PREP \*\*\*****LCS Dup (P0I1607-BSD1)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	416	1.00	mg/kg wet	400		104	80-120	1.72	20	
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**Calibration Blank (P0I1607-CCB1)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	0.00		mg/kg wet							
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**Calibration Blank (P0I1607-CCB2)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	0.00		mg/kg wet							
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**Calibration Check (P0I1607-CCV1)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	20.7		mg/kg	20.0		103	0-200			
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**Calibration Check (P0I1607-CCV2)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	20.4		mg/kg	20.0		102	0-200			
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**Calibration Check (P0I1607-CCV3)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	20.5		mg/kg	20.0		102	0-200			
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**Matrix Spike (P0I1607-MS1)****Source: 0I09016-12**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	1110	1.02	mg/kg dry	510	657	89.5	80-120			
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**Matrix Spike (P0I1607-MS2)****Source: 0I09017-09**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	548	1.03	mg/kg dry	515	61.9	94.3	80-120			
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**Matrix Spike Dup (P0I1607-MSD1)****Source: 0I09016-12**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	1120	1.02	mg/kg dry	510	657	91.3	80-120	0.834	20	
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**Matrix Spike Dup (P0I1607-MSD2)****Source: 0I09017-09**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	565	1.03	mg/kg dry	515	61.9	97.5	80-120	2.98	20	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011608 - \*\*\* DEFAULT PREP \*\*\*****Blank (P011608-BLK1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	ND	1.00	mg/kg wet
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**LCS (P011608-BS1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	415	1.00	mg/kg wet	400	104	80-120
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**LCS Dup (P011608-BSD1)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	416	1.00	mg/kg wet	400	104	80-120	0.308	20
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**Calibration Blank (P011608-CCB1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	0.00		mg/kg wet
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**Calibration Blank (P011608-CCB2)**

Prepared &amp; Analyzed: 09/16/20

Chloride	0.00		mg/kg wet
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**Calibration Check (P011608-CCV1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	18.6		mg/kg	20.0	93.2	0-200
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**Calibration Check (P011608-CCV2)**

Prepared &amp; Analyzed: 09/16/20

Chloride	19.1		mg/kg	20.0	95.7	0-200
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**Calibration Check (P011608-CCV3)**

Prepared: 09/16/20 Analyzed: 09/17/20

Chloride	18.9		mg/kg	20.0	94.3	0-200
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**Matrix Spike (P011608-MS1)**

Source: 0116001-01

Prepared &amp; Analyzed: 09/16/20

Chloride	511	1.05	mg/kg dry	526	8.48	95.5	80-120
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**Matrix Spike (P011608-MS2)**

Source: 0111001-06

Prepared &amp; Analyzed: 09/16/20

Chloride	477	1.01	mg/kg dry	505	0.586	94.3	80-120
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011608 - \*\*\* DEFAULT PREP \*\*\***

**Matrix Spike Dup (P011608-MSD1)**

**Source: 0116001-01**

Prepared & Analyzed: 09/16/20

Chloride	508	1.05	mg/kg dry	526	8.48	95.0	80-120	0.603	20
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**Matrix Spike Dup (P011608-MSD2)**

**Source: 0111001-06**

Prepared & Analyzed: 09/16/20

Chloride	477	1.01	mg/kg dry	505	0.586	94.3	80-120	0.0509	20
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Permian Basin Environmental Lab, L.P.

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12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011103 - TX 1005****Blank (P011103-BLK1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

**LCS (P011103-BS1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	64.0		"	50.0		128	70-130			

**LCS Dup (P011103-BSD1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	0.301	20	
>C12-C28	1140	25.0	"	1000		114	75-125	0.346	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	64.4		"	50.0		129	70-130			

**Calibration Check (P011103-CCV1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	532	25.0	mg/kg wet	500		106	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	59.5		"	50.0		119	70-130			

**Calibration Check (P011103-CCV2)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	497	25.0	mg/kg wet	500		99.4	85-115			
>C12-C28	568	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	58.9		"	50.0		118	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011103 - TX 1005**

<b>Matrix Spike (P011103-MS1)</b>		<b>Source: 0111003-04</b>			Prepared & Analyzed: 09/11/20					
C6-C12	1170	27.8	mg/kg dry	1110	14.5	104	75-125			
>C12-C28	1330	27.8	"	1110	73.8	113	75-125			
Surrogate: 1-Chlorooctane	122		"	111		110	70-130			
Surrogate: o-Terphenyl	74.5		"	55.6		134	70-130			S-GC
<b>Matrix Spike Dup (P011103-MSD1)</b>		<b>Source: 0111003-04</b>			Prepared & Analyzed: 09/11/20					
C6-C12	1090	27.8	mg/kg dry	1110	14.5	96.3	75-125	7.63	20	
>C12-C28	1290	27.8	"	1110	73.8	110	75-125	3.08	20	
Surrogate: 1-Chlorooctane	141		"	111		127	70-130			
Surrogate: o-Terphenyl	68.0		"	55.6		122	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/21/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

**PERM LAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
10014 S. County Road 1213  
Midland, Texas 79706

Phone: 432-686-7235

Project Manager:

Sylvia Reynolds

Project Name:

Artesia Gathering East

Company Name

Permian Basin Inc

Project #:

PD-2075

Company Address:

12600 WCR 91

Project Loc:

La Brea, NM

City/State/Zip:

Midland TX 79707

PO #:

505 #

Telephone No:

432-230-0920

Fax No:

Report Format:

☒ Standard☐ TRAP☐ NPDES

Sampler Signature:

Rick Bena

e-mail:

Sylvia Reynolds  
Kelly Reynolds  
Jeff Reynolds  
Amber Grotto  
Elyse Johnson

(lab use only)

ORDER #: 011001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anion (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 BTEX 8260	8015 m TPH (Chlorides)	TOC/TP:	TOTAL:	Analyze For:	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	BH-3 e 3 Ft	3'	3'	09/08/20	209		1	✓								Sol										
2	BH-5 e 3 Ft	3'	3'	09/08/20	219		1	✓								Sol										
3	BH-4 e 3 Ft	3'	3'	09/08/20	210		1	✓								Sol										
4	BH-1 e 3 Ft	3'	3'	09/08/20	207		1	✓								Sol										
5	BH-7 e 3 Ft	3'	3'	09/08/20	214		1	✓								Sol										
6	BH-2 e 3 Ft	3'	3'	09/08/20	208		1	✓								Sol										
7	BH-1 e 1.5'	1.5'	1.5'	09/08/20	130		1	✓								Sol										
8	North SW-1 e 1.5'	1.5'	1.5'	09/08/20	146		1	✓								Sol										
9	South SW-1 e 1.5'	1.5'	1.5'	09/08/20	150		1	✓								Sol										
10	South SW-2 e 2'	2'	2'	09/08/20	200		1	✓								Sol										

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:  
VOCs Free of Heelspace?  
Custody seals on container(s)  
Checked seals on container(s)  
Sample Hand Delivered  
by Sampler/Client Rep.?  
by Courier? UPS? DHL? FedEx? Lone Star  
Temperature Upon Receipt: °C CF+1  
Received: 16.1  
Adjusted: 17.1 °C Factor

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Jeff Kindley  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Lea County, NM

Lab Order Number: 0I11005



**NELAP/TCEQ # T104704516-17-8**

Report Date: 09/21/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-6 @ 3'	0I11005-01	Soil	09/08/20 10:48	09-11-2020 10:45
BH-8 @ 1'	0I11005-02	Soil	09/08/20 10:20	09-11-2020 10:45
BH-9 @ 1'	0I11005-03	Soil	09/08/20 13:00	09-11-2020 10:45

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-6 @ 3'**  
**0I11005-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0377</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.0904</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0909</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0458</b>	0.00202	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.0141</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		73.5 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		85.5 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1.18</b>	1.01	mg/kg dry	1	P0I1608	09/16/20	09/16/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		114 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		132 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-8 @ 1'**  
**0I11005-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0706</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.132</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0922</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0431</b>	0.00202	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.0127</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		84.6 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		69.2 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.41</b>	1.01	mg/kg dry	1	P0I1608	09/16/20	09/16/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>47.5</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		111 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		129 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>47.5</b>	25.3	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BH-9 @ 1'**  
**0I11005-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.118</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.151</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0481</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0176</b>	0.00202	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00387</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		73.4 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		91.1 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>1.06</b>	1.01	mg/kg dry	1	P0I1608	09/16/20	09/17/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/14/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>207</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/14/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>111</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/14/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		133 %	70-130		P0I1103	09/11/20	09/14/20	TPH 8015M	S-GC1
<i>Surrogate: o-Terphenyl</i>		160 %	70-130		P0I1103	09/11/20	09/14/20	TPH 8015M	S-GC1
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>319</b>	25.3	mg/kg dry	1	[CALC]	09/11/20	09/14/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011105 - General Preparation (GC)****Blank (P011105-BLK1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.0904		"	0.120		75.4	75-125			

**LCS (P011105-BS1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.0953	0.00100	"	0.100		95.3	70-130			
Ethylbenzene	0.0993	0.00100	"	0.100		99.3	70-130			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	70-130			
Xylene (o)	0.101	0.00100	"	0.100		101	70-130			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0930		"	0.120		77.5	75-125			

**LCS Dup (P011105-BS1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	70-130	12.4	20	
Toluene	0.0838	0.00100	"	0.100		83.8	70-130	12.8	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130	8.24	20	
Xylene (p/m)	0.163	0.00200	"	0.200		81.3	70-130	13.0	20	
Xylene (o)	0.0881	0.00100	"	0.100		88.1	70-130	13.6	20	
Surrogate: 4-Bromofluorobenzene	0.0899		"	0.120		74.9	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.6	75-125			

**Calibration Check (P011105-CCV1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	80-120			
Toluene	0.0910	0.00100	"	0.100		91.0	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.171	0.00200	"	0.200		85.4	80-120			
Xylene (o)	0.0952	0.00100	"	0.100		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0888		"	0.120		74.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.7	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011105 - General Preparation (GC)****Calibration Check (P011105-CCV2)**

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.0923	0.00100	mg/kg wet	0.100		92.3	80-120			
Toluene	0.0896	0.00100	"	0.100		89.6	80-120			
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.0	80-120			
Xylene (o)	0.0952	0.00100	"	0.100		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0928		"	0.120		77.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.9	75-125			

**Calibration Check (P011105-CCV3)**

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.0957	0.00100	mg/kg wet	0.100		95.7	80-120			
Toluene	0.0861	0.00100	"	0.100		86.1	80-120			
Ethylbenzene	0.0930	0.00100	"	0.100		93.0	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.0922		"	0.120		76.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.6	75-125			

**Matrix Spike (P011105-MS1)**

Source: 0111001-01

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.105	0.00100	mg/kg dry	0.100	0.0450	60.0	80-120			QM-07
Toluene	0.0848	0.00100	"	0.100	0.0360	48.9	80-120			QM-07
Ethylbenzene	0.0661	0.00100	"	0.100	0.00854	57.5	80-120			QM-07
Xylene (p/m)	0.0939	0.00200	"	0.200	0.00331	45.3	80-120			QM-07
Xylene (o)	0.0441	0.00100	"	0.100	0.000820	43.3	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0913		"	0.120		76.1	75-125			

**Matrix Spike Dup (P011105-MSD1)**

Source: 0111001-01

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.101	0.00100	mg/kg dry	0.100	0.0450	55.6	80-120	7.63	20	QM-07
Toluene	0.0834	0.00100	"	0.100	0.0360	47.5	80-120	2.93	20	QM-07
Ethylbenzene	0.0658	0.00100	"	0.100	0.00854	57.3	80-120	0.488	20	QM-07
Xylene (p/m)	0.0940	0.00200	"	0.200	0.00331	45.3	80-120	0.0552	20	QM-07
Xylene (o)	0.0442	0.00100	"	0.100	0.000820	43.4	80-120	0.254	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0898		"	0.120		74.9	75-125			S-GC

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011106 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P011106-BLK1)</b>				Prepared & Analyzed: 09/11/20						
% Moisture	ND	0.1	%							
<b>Blank (P011106-BLK2)</b>				Prepared & Analyzed: 09/11/20						
% Moisture	ND	0.1	%							
<b>Blank (P011106-BLK3)</b>				Prepared & Analyzed: 09/11/20						
% Moisture	ND	0.1	%							
<b>Duplicate (P011106-DUP1)</b>				<b>Source: 0110001-10</b>		Prepared & Analyzed: 09/11/20				
% Moisture	4.0	0.1	%		5.0			22.2	20	
<b>Duplicate (P011106-DUP2)</b>				<b>Source: 0110001-20</b>		Prepared & Analyzed: 09/11/20				
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P011106-DUP3)</b>				<b>Source: 0110001-35</b>		Prepared & Analyzed: 09/11/20				
% Moisture	10.0	0.1	%		11.0			9.52	20	
<b>Duplicate (P011106-DUP4)</b>				<b>Source: 0111001-08</b>		Prepared & Analyzed: 09/11/20				
% Moisture	ND	0.1	%		ND				20	

**Batch P011608 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P011608-BLK1)</b>				Prepared & Analyzed: 09/16/20						
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P011608-BS1)</b>				Prepared & Analyzed: 09/16/20						
Chloride	415	1.00	mg/kg wet	400		104	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I1608 - \*\*\* DEFAULT PREP \*\*\*****LCS Dup (P0I1608-BSD1)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	416	1.00	mg/kg wet	400		104	80-120	0.308	20	
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**Calibration Blank (P0I1608-CCB1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	0.00		mg/kg wet							
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**Calibration Blank (P0I1608-CCB2)**

Prepared &amp; Analyzed: 09/16/20

Chloride	0.00		mg/kg wet							
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**Calibration Check (P0I1608-CCV1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	18.6		mg/kg	20.0		93.2	0-200			
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**Calibration Check (P0I1608-CCV2)**

Prepared &amp; Analyzed: 09/16/20

Chloride	19.1		mg/kg	20.0		95.7	0-200			
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**Calibration Check (P0I1608-CCV3)**

Prepared: 09/16/20 Analyzed: 09/17/20

Chloride	18.9		mg/kg	20.0		94.3	0-200			
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**Matrix Spike (P0I1608-MS1)**

Source: 0I16001-01

Prepared &amp; Analyzed: 09/16/20

Chloride	511	1.05	mg/kg dry	526	8.48	95.5	80-120			
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**Matrix Spike (P0I1608-MS2)**

Source: 0I11001-06

Prepared &amp; Analyzed: 09/16/20

Chloride	477	1.01	mg/kg dry	505	0.586	94.3	80-120			
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**Matrix Spike Dup (P0I1608-MSD1)**

Source: 0I16001-01

Prepared &amp; Analyzed: 09/16/20

Chloride	508	1.05	mg/kg dry	526	8.48	95.0	80-120	0.603	20	
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**Matrix Spike Dup (P0I1608-MSD2)**

Source: 0I11001-06

Prepared &amp; Analyzed: 09/16/20

Chloride	477	1.01	mg/kg dry	505	0.586	94.3	80-120	0.0509	20	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011103 - TX 1005****Blank (P011103-BLK1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

**LCS (P011103-BS1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	64.0		"	50.0		128	70-130			

**LCS Dup (P011103-BSD1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	0.301	20	
>C12-C28	1140	25.0	"	1000		114	75-125	0.346	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	64.4		"	50.0		129	70-130			

**Calibration Check (P011103-CCV1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	532	25.0	mg/kg wet	500		106	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	59.5		"	50.0		119	70-130			

**Calibration Check (P011103-CCV2)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	497	25.0	mg/kg wet	500		99.4	85-115			
>C12-C28	568	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	58.9		"	50.0		118	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011103 - TX 1005**

<b>Matrix Spike (P011103-MS1)</b>		<b>Source: 0111003-04</b>			Prepared & Analyzed: 09/11/20					
C6-C12	1170	27.8	mg/kg dry	1110	14.5	104	75-125			
>C12-C28	1330	27.8	"	1110	73.8	113	75-125			
Surrogate: 1-Chlorooctane	122		"	111		110	70-130			
Surrogate: o-Terphenyl	74.5		"	55.6		134	70-130			S-GC
<b>Matrix Spike Dup (P011103-MSD1)</b>		<b>Source: 0111003-04</b>			Prepared & Analyzed: 09/11/20					
C6-C12	1090	27.8	mg/kg dry	1110	14.5	96.3	75-125	7.63	20	
>C12-C28	1290	27.8	"	1110	73.8	110	75-125	3.08	20	
Surrogate: 1-Chlorooctane	141		"	111		127	70-130			
Surrogate: o-Terphenyl	68.0		"	55.6		122	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### Notes and Definitions

S-GC1 Surrogate recovery outside of control limits. A second analysis confirmed the original results..

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/21/2020

Brent Barron, Laboratory Director/Technical Director

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Artesia Gathering East Project Number: PP-2075 Project Manager: Jeff Kindley	Fax:
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If you have received this material in error, please notify us immediately at 432-686-7235.

**PBWLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP

1400 Rankin Hwy

Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Project Name: Artesia Easting East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Lee Co, NM

City/State/Zip: Midland TX 79707

PO #:

Telephone No: 432-230-0920

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: R. J. Pena

e-mail:

sywiarereynolds@deandigs.com  
leffkindley@deandigs.com  
kaylanlongee@deanequip.com

(lab use only)

ORDER #: 0111005

Preservation &amp; # of Containers

Matrix

Analyze For:

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250 ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCCLP BENZENE

CHLORIDES

TCCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Inquired by:

Date

Time

Date

Time

Inquired by:

Date

Time

Date

Time

Inquired by:

Date

Time

Date

Time

Laboratory Comments:

Sample Containers intact?

VOCs Free of Headpace?

Labels on containers?

Custody seals on containers?

Custody seals on cooler(s)?

Sample Hand Delivered

by Courier? UPS DHL FedEx

Temperature Upon Receipt:

Adjusted: -1.0 °C Factor 12

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0I18002



NELAP/TCEQ # T104704516-17-8

Report Date: 09/28/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-18 @ 3'	0I18002-01	Soil	09/16/20 10:50	09-18-2020 08:35
BH-19 @ 3'	0I18002-02	Soil	09/16/20 10:55	09-18-2020 08:35
BH-20 @ 3'	0I18002-03	Soil	09/16/20 11:00	09-18-2020 08:35
BH-21 @ 3'	0I18002-04	Soil	09/16/20 11:05	09-18-2020 08:35
BH-15 @ 3'	0I18002-05	Soil	09/16/20 10:43	09-18-2020 08:35
BH-16 @ 3'	0I18002-06	Soil	09/16/20 10:45	09-18-2020 08:35
BH-17 @ 3'	0I18002-07	Soil	09/16/20 10:48	09-18-2020 08:35
BH-14 @ 3'	0I18002-08	Soil	09/16/20 10:40	09-18-2020 08:35
BH-10 @ 3'	0I18002-09	Soil	09/16/20 10:30	09-18-2020 08:35
BH-11 @ 3'	0I18002-10	Soil	09/16/20 10:33	09-18-2020 08:35
BH-12 @ 3'	0I18002-11	Soil	09/16/20 10:35	09-18-2020 08:35
BH-13 @ 3'	0I18002-12	Soil	09/16/20 10:37	09-18-2020 08:35

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-18 @ 3'**  
**0I18002-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	0.00963	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B
Toluene	0.0165	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B
Ethylbenzene	0.00683	0.00202	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B
Xylene (p/m)	ND	0.00404	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B
Xylene (o)	ND	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.46	1.01	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0
% Moisture	1.0	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M
Surrogate: 1-Chlorooctane		97.1 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/18/20	09/19/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-19 @ 3'**  
**0I18002-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00458</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.00878</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00365</b>	0.00202	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (p/m)	ND	0.00404	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.64</b>	1.01	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/18/20	09/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-20 @ 3'**  
**0118002-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0212</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0209</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00766</b>	0.00202	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (p/m)	ND	0.00404	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.3 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.1 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.17</b>	1.01	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>488</b>	25.3	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>216</b>	25.3	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.6 %	70-130		P011810	09/18/20	09/20/20	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P011810	09/18/20	09/20/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>704</b>	25.3	mg/kg dry	1	[CALC]	09/18/20	09/20/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-21 @ 3'**  
**0I18002-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0161</b>	0.00102	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0194</b>	0.00102	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00718</b>	0.00204	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (p/m)	ND	0.00408	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.6 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.70</b>	1.02	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.5	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>324</b>	25.5	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>160</b>	25.5	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.5 %	70-130		P011810	09/18/20	09/20/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P011810	09/18/20	09/20/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>483</b>	25.5	mg/kg dry	1	[CALC]	09/18/20	09/20/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-15 @ 3'**  
**0I18002-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0144</b>	0.00100	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0205</b>	0.00100	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00827</b>	0.00200	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (p/m)	ND	0.00400	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.35</b>	1.00	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>400</b>	25.0	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>171</b>	25.0	mg/kg dry	1	P011810	09/18/20	09/20/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P011810	09/18/20	09/20/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P011810	09/18/20	09/20/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>571</b>	25.0	mg/kg dry	1	[CALC]	09/18/20	09/20/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-16 @ 3'**  
**0118002-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0193</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0377</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0217</b>	0.00202	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00926</b>	0.00404	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00197</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.3 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.4 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>9.90</b>	1.01	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		97.0 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		108 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/18/20	09/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-17 @ 3'**  
**0I18002-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0237</b>	0.00101	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0352</b>	0.00101	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0138</b>	0.00202	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00542</b>	0.00404	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00103</b>	0.00101	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.6 %	75-125		P0I1803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.5 %	75-125		P0I1803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.16</b>	1.01	mg/kg dry	1	P0I2302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I2101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>157</b>	25.3	mg/kg dry	1	P0I1810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>72.7</b>	25.3	mg/kg dry	1	P0I1810	09/18/20	09/20/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.1 %	70-130		P0I1810	09/18/20	09/20/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		112 %	70-130		P0I1810	09/18/20	09/20/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>230</b>	25.3	mg/kg dry	1	[CALC]	09/18/20	09/20/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-14 @ 3'**  
**0I18002-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0300</b>	0.00101	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0431</b>	0.00101	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0177</b>	0.00202	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00658</b>	0.00404	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00112</b>	0.00101	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		96.8 %	75-125		P0I1803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.0 %	75-125		P0I1803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.75</b>	1.01	mg/kg dry	1	P0I2302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I2101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>780</b>	25.3	mg/kg dry	1	P0I1810	09/18/20	09/20/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>331</b>	25.3	mg/kg dry	1	P0I1810	09/18/20	09/20/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		103 %	70-130		P0I1810	09/18/20	09/20/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		113 %	70-130		P0I1810	09/18/20	09/20/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1110</b>	25.3	mg/kg dry	1	[CALC]	09/18/20	09/20/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-10 @ 3'**  
**0118002-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0131</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0424</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0277</b>	0.00202	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0114</b>	0.00404	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00223</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.8 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.78</b>	1.01	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.0 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		110 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/18/20	09/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-11 @ 3'**  
**0I18002-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0194</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0303</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0134</b>	0.00202	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00489</b>	0.00404	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		96.5 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.89</b>	1.01	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>40.4</b>	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		82.2 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		98.8 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>40.4</b>	25.3	mg/kg dry	1	[CALC]	09/18/20	09/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-12 @ 3'**  
**0I18002-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0235</b>	0.00102	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0403</b>	0.00102	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0197</b>	0.00204	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00744</b>	0.00408	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00148</b>	0.00102	mg/kg dry	1	P0I1803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	75-125		P0I1803	09/18/20	09/19/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.5 %	75-125		P0I1803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.97</b>	1.02	mg/kg dry	1	P0I2302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0I2101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0I1810	09/18/20	09/19/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0I1810	09/18/20	09/19/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0I1810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		72.3 %	70-130		P0I1810	09/18/20	09/19/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		99.4 %	70-130		P0I1810	09/18/20	09/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	09/18/20	09/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-13 @ 3'**  
**0I18002-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00459</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Toluene</b>	<b>0.0117</b>	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00633</b>	0.00202	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (p/m)	ND	0.00404	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P011803	09/18/20	09/19/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.19</b>	1.01	mg/kg dry	1	P012302	09/23/20	09/23/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012101	09/21/20	09/21/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P011810	09/18/20	09/19/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.0 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P011810	09/18/20	09/19/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/18/20	09/19/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011803 - General Preparation (GC)****Blank (P011803-BLK1)**

Prepared &amp; Analyzed: 09/18/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00400	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.3	75-125			

**LCS (P011803-BS1)**

Prepared &amp; Analyzed: 09/18/20

Benzene	0.0875	0.00100	mg/kg wet	0.100		87.5	70-130			
Toluene	0.0943	0.00100	"	0.100		94.3	70-130			
Ethylbenzene	0.0936	0.00200	"	0.100		93.6	70-130			
Xylene (p/m)	0.193	0.00400	"	0.200		96.6	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.7	75-125			

**LCS Dup (P011803-BSD1)**

Prepared &amp; Analyzed: 09/18/20

Benzene	0.0838	0.00100	mg/kg wet	0.100		83.8	70-130	4.30	20	
Toluene	0.0892	0.00100	"	0.100		89.2	70-130	5.55	20	
Ethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130	2.83	20	
Xylene (p/m)	0.184	0.00400	"	0.200		91.8	70-130	5.10	20	
Xylene (o)	0.101	0.00100	"	0.100		101	70-130	7.52	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	75-125			

**Calibration Check (P011803-CCV1)**

Prepared &amp; Analyzed: 09/18/20

Benzene	0.0878	0.00100	mg/kg wet	0.100		87.8	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.111	0.00200	"	0.100		111	80-120			
Xylene (p/m)	0.196	0.00400	"	0.200		98.0	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011803 - General Preparation (GC)****Calibration Check (P011803-CCV2)**

Prepared: 09/18/20 Analyzed: 09/19/20

Benzene	0.0877	0.00100	mg/kg wet	0.100		87.7	80-120			
Toluene	0.0895	0.00100	"	0.100		89.5	80-120			
Ethylbenzene	0.0988	0.00200	"	0.100		98.8	80-120			
Xylene (p/m)	0.181	0.00400	"	0.200		90.7	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.9	75-125			

**Calibration Check (P011803-CCV3)**

Prepared: 09/18/20 Analyzed: 09/19/20

Benzene	0.0867	0.00100	mg/kg wet	0.100		86.7	80-120			
Toluene	0.0918	0.00100	"	0.100		91.8	80-120			
Ethylbenzene	0.101	0.00200	"	0.100		101	80-120			
Xylene (p/m)	0.183	0.00400	"	0.200		91.6	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.6	75-125			

**Matrix Spike (P011803-MS1)**

Source: 0118001-21

Prepared: 09/18/20 Analyzed: 09/19/20

Benzene	0.0927	0.00132	mg/kg dry	0.132	0.00122	69.5	80-120			QM-05
Toluene	0.0980	0.00132	"	0.132	0.00101	73.7	80-120			QM-05
Ethylbenzene	0.117	0.00263	"	0.132	0.000855	88.3	80-120			
Xylene (p/m)	0.189	0.00526	"	0.263	0.00253	71.0	80-120			QM-05
Xylene (o)	0.0965	0.00132	"	0.132	ND	73.3	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.149		"	0.158		94.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.159		"	0.158		101	75-125			

**Matrix Spike Dup (P011803-MSD1)**

Source: 0118001-21

Prepared: 09/18/20 Analyzed: 09/19/20

Benzene	0.102	0.00132	mg/kg dry	0.132	0.00122	76.8	80-120	9.98	20	QM-05
Toluene	0.107	0.00132	"	0.132	0.00101	80.9	80-120	9.24	20	
Ethylbenzene	0.126	0.00263	"	0.132	0.000855	95.2	80-120	7.57	20	
Xylene (p/m)	0.210	0.00526	"	0.263	0.00253	79.0	80-120	10.7	20	QM-05
Xylene (o)	0.112	0.00132	"	0.132	ND	85.0	80-120	14.8	20	
Surrogate: 1,4-Difluorobenzene	0.148		"	0.158		93.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.164		"	0.158		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I2101 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0I2101-BLK1)</b>	Prepared & Analyzed: 09/21/20									
% Moisture	ND	0.1	%							
<b>Blank (P0I2101-BLK2)</b>	Prepared & Analyzed: 09/21/20									
% Moisture	ND	0.1	%							
<b>Blank (P0I2101-BLK3)</b>	Prepared & Analyzed: 09/21/20									
% Moisture	ND	0.1	%							
<b>Blank (P0I2101-BLK4)</b>	Prepared & Analyzed: 09/21/20									
% Moisture	ND	0.1	%							
<b>Duplicate (P0I2101-DUP1)</b>	<b>Source: 0117009-10</b>		Prepared & Analyzed: 09/21/20							
% Moisture	14.0	0.1	%		14.0			0.00	20	
<b>Duplicate (P0I2101-DUP2)</b>	<b>Source: 0117010-08</b>		Prepared & Analyzed: 09/21/20							
% Moisture	15.0	0.1	%		16.0			6.45	20	
<b>Duplicate (P0I2101-DUP3)</b>	<b>Source: 0117011-07</b>		Prepared & Analyzed: 09/21/20							
% Moisture	17.0	0.1	%		18.0			5.71	20	
<b>Duplicate (P0I2101-DUP4)</b>	<b>Source: 0118001-02</b>		Prepared & Analyzed: 09/21/20							
% Moisture	10.0	0.1	%		12.0			18.2	20	
<b>Duplicate (P0I2101-DUP5)</b>	<b>Source: 0118001-17</b>		Prepared & Analyzed: 09/21/20							
% Moisture	19.0	0.1	%		18.0			5.41	20	
<b>Duplicate (P0I2101-DUP6)</b>	<b>Source: 0118002-02</b>		Prepared & Analyzed: 09/21/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012101 - \*\*\* DEFAULT PREP \*\*\*****Duplicate (P012101-DUP7)****Source: 0118009-02**

Prepared &amp; Analyzed: 09/21/20

% Moisture	5.0	0.1	%		5.0			0.00	20	
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**Batch P012302 - \*\*\* DEFAULT PREP \*\*\*****Blank (P012302-BLK1)**

Prepared &amp; Analyzed: 09/23/20

Chloride	ND	1.00	mg/kg wet							
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**LCS (P012302-BS1)**

Prepared &amp; Analyzed: 09/23/20

Chloride	417	1.00	mg/kg wet	400		104	80-120			
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**LCS Dup (P012302-BSD1)**

Prepared &amp; Analyzed: 09/23/20

Chloride	406	1.00	mg/kg wet	400		102	80-120	2.59	20	
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**Calibration Blank (P012302-CCB1)**

Prepared &amp; Analyzed: 09/23/20

Chloride	0.00		mg/kg wet							
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**Calibration Blank (P012302-CCB2)**

Prepared &amp; Analyzed: 09/23/20

Chloride	0.00		mg/kg wet							
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**Calibration Check (P012302-CCV1)**

Prepared &amp; Analyzed: 09/23/20

Chloride	19.9		mg/kg	20.0		99.3	0-200			
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**Calibration Check (P012302-CCV2)**

Prepared &amp; Analyzed: 09/23/20

Chloride	20.2		mg/kg	20.0		101	0-200			
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**Calibration Check (P012302-CCV3)**

Prepared &amp; Analyzed: 09/23/20

Chloride	20.7		mg/kg	20.0		104	0-200			
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012302 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P012302-MS1)</b>		<b>Source: 0117011-11</b>			Prepared & Analyzed: 09/23/20					
Chloride	17300	58.8	mg/kg dry	5880	10900	108	80-120			
<b>Matrix Spike (P012302-MS2)</b>		<b>Source: 0118002-06</b>			Prepared & Analyzed: 09/23/20					
Chloride	480	1.01	mg/kg dry	505	9.90	93.1	80-120			
<b>Matrix Spike Dup (P012302-MSD1)</b>		<b>Source: 0117011-11</b>			Prepared & Analyzed: 09/23/20					
Chloride	16700	58.8	mg/kg dry	5880	10900	97.9	80-120	3.54	20	
<b>Matrix Spike Dup (P012302-MSD2)</b>		<b>Source: 0118002-06</b>			Prepared & Analyzed: 09/23/20					
Chloride	479	1.01	mg/kg dry	505	9.90	92.8	80-120	0.274	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011810 - TX 1005****Blank (P011810-BLK1)**

Prepared &amp; Analyzed: 09/18/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	95.1		"	100		95.1	70-130			
Surrogate: o-Terphenyl	49.4		"	50.0		98.8	70-130			

**LCS (P011810-BS1)**

Prepared &amp; Analyzed: 09/18/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.5	70-130			

**LCS Dup (P011810-BSD1)**

Prepared &amp; Analyzed: 09/18/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	0.210	20	
>C12-C28	1090	25.0	"	1000		109	75-125	0.345	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.5	70-130			

**Calibration Check (P011810-CCV1)**

Prepared &amp; Analyzed: 09/18/20

C6-C12	518	25.0	mg/kg wet	500		104	85-115			
>C12-C28	540	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	48.9		"	50.0		97.8	70-130			

**Calibration Check (P011810-CCV2)**

Prepared: 09/18/20 Analyzed: 09/19/20

C6-C12	488	25.0	mg/kg wet	500		97.6	85-115			
>C12-C28	511	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	96.5		"	100		96.5	70-130			
Surrogate: o-Terphenyl	46.2		"	50.0		92.5	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I1810 - TX 1005**

Duplicate (P0I1810-DUP1)	Source: 0I17009-09			Prepared: 09/18/20		Analyzed: 09/19/20				
C6-C12	18.2	30.1	mg/kg dry		16.9			7.14	20	
>C12-C28	ND	30.1	"		29.0				20	
Surrogate: 1-Chlorooctane	119		"	120		99.0	70-130			
Surrogate: o-Terphenyl	68.0		"	60.2		113	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/28/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

**Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701**

**Phone: 432-686-7235**

**Company Name** \_\_\_\_\_ **Dean** \_\_\_\_\_

**Company Address:** 12600 WICK 91

City/State/Zip: Midland TX 79701

Telephone No. 432-230-0920

Sampler Signature: Kick Penn

**(lab use only)**

ORDER# 0118002

**e-mail:** [sylviareynolds@deandigs.com](mailto:sylviareynolds@deandigs.com)

kaylanlongee@deanequip.com

Report Format: ☒ Standard ☐ ITRP ☐ NPDES

PO #: 383 # Artisan 6074mg ~~6074mg~~ 6074mg

Project Loc: Coaling County, N.Y.

Project #: RP-2079

Project Name: Pain's Arteria

Page 23 of 24

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250,ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)
1	BH-18	e 3'	3'	3'	09/16/20	1050		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	BH-19	e 3'	3'	3'	09/16/20	1055		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	BH-20	e 3'	3'	3'	09/16/20	1100		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	BH-21	e 3'	3'	3'	09/16/20	1105		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	BH-15	e 3'	3'	3'	09/16/20	1045		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	BH-16	e 3'	3'	3'	09/16/20	1048		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	BH-17	e 3'	3'	3'	09/16/20	1040		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	BH-14	e 3'	3'	3'	09/16/20	1030		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	BH-10	e 3'	3'	3'	09/16/20	1033		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	BH-11	e 3'	3'	3'	09/16/20	1033		1	✓								Soil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

09/21/1:09:45 PM  
 Special Instructions:

Laboratory Comments:  
 Sample Containers Infected?

7 Day Tat

**Laboratory Comments:**  
Sample Containers Intact

## VOCs Free of Headspace

Labels on container(s)

Custody seals on containers

## Sampling scene on social

Can I have access  
by SampleClient Rep.?

by Courier? UPS. D

Temperature Upon Receipt: \_\_\_\_\_

Received: 31  
Adjusted: 31

100

Released to Imaging: 6/14/2021 3:03:51 PM



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Pernian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: \_\_\_\_\_

ORDER #: 0118002

(lab use only)

Fax No: \_\_\_\_\_

e-mail: [sylviareynolds@deandigs.com](mailto:sylviareynolds@deandigs.com)  
[ieffindley@deandigs.com](mailto:ieffindley@deandigs.com)  
[kayvanlongee@deanequip.com](mailto:kayvanlongee@deanequip.com)

Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
[elizabethstuart@deandigs.com](mailto:elizabethstuart@deandigs.com)

Project Name: Plains Artesia ~~East~~  
Project #: PP-20705  
Project Loc: Edley 6, NM

PO #: SR5# Artesia Gathering ~~East~~ Midland

Analyze For: *Amber Gervais*

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250,ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Relinquished by: *Sally Kneib*

Date: 09/18/20

Time: 8:35

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Received by: *Shirley Bedner*

Date: 9/18/20

Time: 8:35

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Sample Hand Delivered

by Courier? UPS DHL FedEx

Temperature Upon Receipt: \_\_\_\_\_

Adjusted: 3.4.1 °C Factor

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0I23010



NELAP/TCEQ # T104704516-17-8

Report Date: 10/05/20



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-22 @ 3'	0I23010-01	Soil	09/18/20 09:00	09-23-2020 11:45
BH-23 @ 3'	0I23010-02	Soil	09/18/20 09:05	09-23-2020 11:45
BH-24 @ 3'	0I23010-03	Soil	09/18/20 09:10	09-23-2020 11:45
BH-25 @ 3'	0I23010-04	Soil	09/18/20 09:15	09-23-2020 11:45
BH-26 @ 3'	0I23010-05	Soil	09/18/20 09:20	09-23-2020 11:45
BH-27 @ 3'	0I23010-06	Soil	09/18/20 09:25	09-23-2020 11:45
BH-28 @ 3'	0I23010-07	Soil	09/18/20 09:30	09-23-2020 11:45
BH-29 @ 3'	0I23010-08	Soil	09/18/20 09:35	09-23-2020 11:45
BH-30 @ 3'	0I23010-09	Soil	09/18/20 09:40	09-23-2020 11:45
BH-31 @ 3'	0I23010-10	Soil	09/18/20 09:45	09-23-2020 11:45
BH-32 @ 3'	0I23010-11	Soil	09/18/20 09:50	09-23-2020 11:45
BH-33 @ 3'	0I23010-12	Soil	09/18/20 09:55	09-23-2020 11:45
BH-34 @ 3'	0I23010-13	Soil	09/18/20 10:00	09-23-2020 11:45
BH-35 @ 3'	0I23010-14	Soil	09/18/20 10:05	09-23-2020 11:45
BH-36 @ 3'	0I23010-15	Soil	09/18/20 10:10	09-23-2020 11:45
BH-37 @ 3'	0I23010-16	Soil	09/18/20 10:15	09-23-2020 11:45
BH-38 @ 3'	0I23010-17	Soil	09/18/20 10:20	09-23-2020 11:45
BH-39 @ 3'	0I23010-18	Soil	09/18/20 10:25	09-23-2020 11:45
BH-40 @ 3'	0I23010-19	Soil	09/18/20 10:30	09-23-2020 11:45
BH-41 @ 3'	0I23010-20	Soil	09/18/20 10:35	09-23-2020 11:45
BH-42 @ 3'	0I23010-21	Soil	09/18/20 10:40	09-23-2020 11:45
BH-43 @ 3'	0I23010-22	Soil	09/18/20 10:45	09-23-2020 11:45
BH-44 @ 3'	0I23010-23	Soil	09/18/20 10:50	09-23-2020 11:45
BH-45 @ 3'	0I23010-24	Soil	09/18/20 10:55	09-23-2020 11:45
BH-46 @ 3'	0I23010-25	Soil	09/18/20 11:00	09-23-2020 11:45
BH-47 @ 3'	0I23010-26	Soil	09/18/20 11:05	09-23-2020 11:45
BH-48 @ 3'	0I23010-27	Soil	09/18/20 11:10	09-23-2020 11:45
BH-49 @ 3'	0I23010-28	Soil	09/18/20 11:15	09-23-2020 11:45
BH-50 @ 3'	0I23010-29	Soil	09/18/20 11:20	09-23-2020 11:45
BH-51 @ 3'	0I23010-30	Soil	09/18/20 11:25	09-23-2020 11:45
BH-52 @ 3'	0I23010-31	Soil	09/18/20 11:30	09-23-2020 11:45
BH-53 @ 3'	0I23010-32	Soil	09/18/20 11:35	09-23-2020 11:45
BH-54 @ 3'	0I23010-33	Soil	09/18/20 11:40	09-23-2020 11:45
BH-55 @ 3'	0I23010-34	Soil	09/18/20 11:45	09-23-2020 11:45

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-56 @ 3'	0I23010-35	Soil	09/18/20 11:50	09-23-2020 11:45
BH-57 @ 3'	0I23010-36	Soil	09/22/20 08:50	09-23-2020 11:45
BH-58 @ 1'	0I23010-37	Soil	09/22/20 08:53	09-23-2020 11:45
BH-59 @ 1'	0I23010-38	Soil	09/22/20 08:56	09-23-2020 11:45
BH-60 @ 1'	0I23010-39	Soil	09/22/20 09:00	09-23-2020 11:45
BH-61 @ 1'	0I23010-40	Soil	09/22/20 09:05	09-23-2020 11:45
BH-62 @ 1'	0I23010-41	Soil	09/22/20 09:10	09-23-2020 11:45
BH-63 @ 1'	0I23010-42	Soil	09/22/20 09:15	09-23-2020 11:45
BH-64 @ 1'	0I23010-43	Soil	09/22/20 09:20	09-23-2020 11:45
BH-65 @ 1'	0I23010-44	Soil	09/22/20 09:25	09-23-2020 11:45
BH-66 @ 1'	0I23010-45	Soil	09/22/20 09:30	09-23-2020 11:45
BH-67 @ 1'	0I23010-46	Soil	09/22/20 09:35	09-23-2020 11:45
BH-68 @ 1'	0I23010-47	Soil	09/22/20 09:40	09-23-2020 11:45
BH-69 @ 1'	0I23010-48	Soil	09/22/20 09:45	09-23-2020 11:45
BH-70 @ 1'	0I23010-49	Soil	09/22/20 09:50	09-23-2020 11:45
BH-71 @ 1'	0I23010-50	Soil	09/22/20 09:55	09-23-2020 11:45
North SW A1 @ 1.5'	0I23010-51	Soil	09/22/20 10:05	09-23-2020 11:45
North SW A2 @ 1.5'	0I23010-52	Soil	09/22/20 10:10	09-23-2020 11:45
West SW A1 @ 1.5'	0I23010-53	Soil	09/22/20 10:15	09-23-2020 11:45
West SW A2 @ 1.5'	0I23010-54	Soil	09/22/20 10:20	09-23-2020 11:45
South SW A1 @ 1.5'	0I23010-55	Soil	09/22/20 10:25	09-23-2020 11:45
East SW A1 @ 1.5'	0I23010-56	Soil	09/22/20 10:30	09-23-2020 11:45
South SW A2 @ 2'	0I23010-57	Soil	09/22/20 10:40	09-23-2020 11:45
BH-72 @ 1'	0I23010-58	Soil	09/22/20 11:00	09-23-2020 11:45
BH-73 @ 1'	0I23010-59	Soil	09/22/20 11:05	09-23-2020 11:45
BH-74 @ 1'	0I23010-60	Soil	09/22/20 11:10	09-23-2020 11:45
BH-75 @ 1'	0I23010-61	Soil	09/22/20 11:15	09-23-2020 11:45
BH-76 @ 1'	0I23010-62	Soil	09/22/20 11:20	09-23-2020 11:45
BH-77 @ 1'	0I23010-63	Soil	09/22/20 11:25	09-23-2020 11:45
BH-78 @ 1'	0I23010-64	Soil	09/22/20 11:30	09-23-2020 11:45
BH-79 @ 1'	0I23010-65	Soil	09/22/20 11:35	09-23-2020 11:45
BH-80 @ 1'	0I23010-66	Soil	09/22/20 11:40	09-23-2020 11:45
BH-81 @ 2'	0I23010-67	Soil	09/22/20 11:45	09-23-2020 11:45
North SW B1 @ 1'	0I23010-68	Soil	09/22/20 11:50	09-23-2020 11:45

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East SW B1 @ 1'	0I23010-69	Soil	09/22/20 11:55	09-23-2020 11:45
South SW B1 @ 1'	0I23010-70	Soil	09/22/20 12:00	09-23-2020 11:45
West SW B1 @ 1'	0I23010-71	Soil	09/22/20 12:05	09-23-2020 11:45
South SW B2 @ 6"	0I23010-72	Soil	09/22/20 12:15	09-23-2020 11:45
East SW B2 @ 6"	0I23010-73	Soil	09/22/20 12:20	09-23-2020 11:45
North SW B2 @ 6"	0I23010-74	Soil	09/22/20 12:25	09-23-2020 11:45
West SW B2 @ 6"	0I23010-75	Soil	09/22/20 12:30	09-23-2020 11:45
West SW A3 @ 6"	0I23010-76	Soil	09/22/20 13:00	09-23-2020 11:45

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-22 @ 3'**  
**0123010-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		97.5 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.38	1.03	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M
Surrogate: 1-Chlorooctane		82.7 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M
Surrogate: o-Terphenyl		93.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-23 @ 3'**  
**0123010-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.5 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.18	1.05	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	27.2	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		95.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>27.2</b>	26.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-24 @ 3'**  
**0123010-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.57	1.03	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-25 @ 3'**  
**0123010-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.6 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.71	1.05	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.3 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		97.5 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-26 @ 3'**  
**0123010-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.43	1.01	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	372	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	184	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		92.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	556	25.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-27 @ 3'**  
**0123010-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.6 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.3 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.29	1.02	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	827	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	430	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		76.5 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		87.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1260	25.5	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-28 @ 3'**  
**0123010-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.7 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.58	1.04	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-29 @ 3'**  
**0123010-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	12.3	1.03	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.8 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-30 @ 3'**  
**0123010-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.2 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.07	1.04	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.0 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-31 @ 3'**  
**0123010-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.96	1.05	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.5 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-32 @ 3'**  
**0123010-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.2 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.63	1.01	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	278	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	138	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		98.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	417	25.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-33 @ 3'**  
**0123010-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.87	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	151	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	85.7	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		86.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	237	25.5	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-34 @ 3'**  
**0123010-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	12.1	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-35 @ 3'**  
**0123010-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00400</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		95.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.87</b>	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>58.3</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.9 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		95.7 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>58.3</b>	25.8	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-36 @ 3'**  
**0123010-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.2 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		132 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.71	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		80.5 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		92.4 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-37 @ 3'**  
**0123010-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00386</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00757</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00208</b>	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.08</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>401</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>234</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.9 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>635</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-38 @ 3'**  
**0123010-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00263</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00552</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		136 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.54</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>306</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>103</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		81.0 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		91.4 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>409</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-39 @ 3'**  
**0123010-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00272</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00693</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.07</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>221</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>101</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		88.0 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>321</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-40 @ 3'**  
**0123010-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00194</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.84</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>26.2</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>26.2</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-41 @ 3'**  
**0123010-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00140</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.85</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-42 @ 3'**  
**0123010-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00192</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.26</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.3 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		98.9 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-43 @ 3'**  
**0123010-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00181</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00416</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.51</b>	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>202</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>80.8</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.0 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>283</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-44 @ 3'**  
**0123010-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00470</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00881</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00217</b>	0.00200	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.0 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.79</b>	1.00	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>302</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>114</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>415</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-45 @ 3'**  
**0123010-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00232</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00679</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00243</b>	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.84</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>114</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>51.2</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		96.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>165</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-46 @ 3'**  
**0123010-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00314</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00711</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00224</b>	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		96.3 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.24</b>	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>441</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>170</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>611</b>	25.8	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-47 @ 3'**  
**0123010-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00466</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00886</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		92.2 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.45</b>	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>590</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>209</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		79.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		93.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>799</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-48 @ 3'**  
**0123010-27 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00192</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00527</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00215</b>	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		89.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.61</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>106</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>42.7</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>149</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-49 @ 3'**  
**0123010-28 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00453</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00733</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.0 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.24</b>	1.00	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>794</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>293</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.4 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1090</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-50 @ 3'**  
**0123010-29 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00352</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00723</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00212</b>	0.00204	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.09</b>	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>453</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>211</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.7 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		94.2 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>665</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-51 @ 3'**  
**0123010-30 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00188</b>	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		133 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.39</b>	1.06	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>90.3</b>	26.6	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>39.9</b>	26.6	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		83.6 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		96.2 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>130</b>	26.6	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-52 @ 3'**  
**0123010-31 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00353</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00942</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00137</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00354</b>	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.5 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.29</b>	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>141</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>75.0</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		81.8 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.4 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>216</b>	25.8	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-53 @ 3'**  
**0123010-32 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00301</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00675</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.66</b>	1.04	mg/kg dry	1	P012904	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
>C12-C28	<b>628</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
>C28-C35	<b>261</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		76.1 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		87.4 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>889</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-54 @ 3'**  
**0123010-33 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00411</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.0101</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00132</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00344</b>	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		104 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.00</b>	1.04	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>712</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>277</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		79.9 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		90.8 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>989</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-55 @ 3'**  
**0123010-34 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00526</b>	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00545</b>	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.9 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.33</b>	1.04	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>352</b>	26.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>148</b>	26.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		99.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>500</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-56 @ 3'**  
**0123010-35 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00411</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00712</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		126 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.07</b>	1.02	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>499</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>220</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.8 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		88.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>719</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-57 @ 3'**  
**0123010-36 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00397</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00462</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>10.0</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>184</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>73.2</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>258</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-58 @ 1'**  
**0123010-37 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00568</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00796</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.78</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>504</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>177</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.1 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		91.5 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>680</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-59 @ 1'**  
**0123010-38 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00509</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00807</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.99</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>356</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>119</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>476</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-60 @ 1'**  
**0123010-39 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00643</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0131</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00142</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00342</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		119 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		99.5 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.95</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>194</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>66.5</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		95.1 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		98.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>260</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-61 @ 1'**  
**0123010-40 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00834</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0152</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00144</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00330</b>	0.00204	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	<b>ND</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>118 %</i>	<i>75-125</i>		<i>P012414</i>	<i>09/24/20</i>	<i>09/30/20</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>98.6 %</i>	<i>75-125</i>		<i>P012414</i>	<i>09/24/20</i>	<i>09/30/20</i>	<i>EPA 8021B</i>	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.97</b>	1.02	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>205</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>69.6</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>91.7 %</i>	<i>70-130</i>		<i>P012406</i>	<i>09/24/20</i>	<i>09/24/20</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>94.8 %</i>	<i>70-130</i>		<i>P012406</i>	<i>09/24/20</i>	<i>09/24/20</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>275</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-62 @ 1'**  
**0123010-41 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00590</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00927</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.35</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>202</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>77.2</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		98.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>280</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-63 @ 1'**  
**0123010-42 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00528</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00753</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.66</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>198</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>87.5</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>285</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-64 @ 1'**  
**0123010-43 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00479</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00966</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00107</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00216</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.7 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		129 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.60</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>134</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>57.6</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		97.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		101 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>192</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-65 @ 1'**  
**0123010-44 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00697</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00894</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.49</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>166</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>68.8</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>235</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-66 @ 1'**  
**0123010-45 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00455</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00642</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.81</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>235</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>99.4</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>335</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-67 @ 1'**  
**0123010-46 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00499</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00791</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.7 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.13</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>248</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>104</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>352</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-68 @ 1'**  
**0123010-47 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00447</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00650</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.52</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>247</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>97.6</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.6 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		92.4 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>345</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-69 @ 1'**  
**0123010-48 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00645</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0129</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00135</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00290</b>	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		103 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.79</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>128</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>55.6</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		92.1 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		95.5 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>184</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-70 @ 1'**  
**0123010-49 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00394</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00831</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00107</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00236</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		99.3 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.95</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>85.9</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>35.1</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		90.4 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		93.8 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>121</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-71 @ 1'**  
**0123010-50 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00157</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00667</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00118</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00282</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		118 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.13</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		78.2 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		88.3 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW A1 @ 1.5'**  
**0123010-51 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00877</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0146</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00148</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00322</b>	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.87</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>238</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>80.7</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		89.7 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		92.2 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>319</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW A2 @ 1.5'**  
**0123010-52 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00637</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00906</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.61</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>270</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>85.4</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.3 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		94.3 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>356</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW A1 @ 1.5'**  
**0123010-53 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00878</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0151</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00157</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00344</b>	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.74</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
<b>% Moisture</b>	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>127</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>37.9</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.0 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		100 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>165</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW A2 @ 1.5'**  
**0123010-54 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00587</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.0113</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00196</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00480</b>	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00111</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		122 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		101 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.08</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>187</b>	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>45.8</b>	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		74.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		78.5 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>233</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW A1 @ 1.5'**  
**0123010-55 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00149</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.00727</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00179</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00471</b>	0.00202	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.8 %		75-125	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %		75-125	P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.71</b>	1.01	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		89.4 %		70-130	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		96.2 %		70-130	P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW A1 @ 1.5'**  
**0123010-56 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00179</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.00700</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00119</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00298</b>	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		118 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		97.6 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.29</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		94.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		99.4 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW A2 @ 2'**  
**0123010-57 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00290</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.0116</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00172</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00421</b>	0.00202	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.3 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.82</b>	1.01	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		85.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		92.6 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-72 @ 1'**  
**0123010-58 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.7 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.71	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.6 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		97.2 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-73 @ 1'**  
**0123010-59 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.21	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	44.0	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		94.0 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>44.0</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-74 @ 1'**  
**0123010-60 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.9 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.89	1.01	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		98.3 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-75 @ 1'**  
**0123010-61 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.63	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	32.0	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		99.4 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>32.0</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-76 @ 1'**  
**0123010-62 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		96.6 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.96	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	30.0	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.9 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>30.0</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-77 @ 1'**  
**0123010-63 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.24	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.7 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-78 @ 1'**  
**0123010-64 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.86	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	27.6	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>27.6</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-79 @ 1'**  
**0123010-65 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.61	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-80 @ 1'**  
**0123010-66 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.8 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		126 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.16	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	30.8	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.9 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>30.8</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-81 @ 2'**  
**0123010-67 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.61	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	39.6	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.9 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		83.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>39.6</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B1 @ 1'**  
**0123010-68 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.41	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW B1 @ 1'**  
**0123010-69 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.07	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.3 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		96.3 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW B1 @ 1'**  
**0123010-70 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.39	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	35.6	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>35.6</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B1 @ 1'**  
**0123010-71 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	12.4	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	44.2	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>44.2</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW B2 @ 6"**  
**0123010-72 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	11.6	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW B2 @ 6"**  
**0123010-73 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.76	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B2 @ 6"**  
**0123010-74 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.45	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.8 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/25/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B2 @ 6"**  
**0123010-75 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.57	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/25/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW A3 @ 6"**  
**0123010-76 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.37	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C12-C28	40.1	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.2 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		92.2 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>40.1</b>	25.0	mg/kg dry	1	[CALC]	09/25/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012309 - General Preparation (GC)****Blank (P012309-BLK1)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	0.00210	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.0	75-125			

**LCS (P012309-BS1)**

Prepared &amp; Analyzed: 09/23/20

Benzene	0.0889	0.00100	mg/kg wet	0.100		88.9	70-130			
Toluene	0.0924	0.00100	"	0.100		92.4	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.191	0.00200	"	0.200		95.6	70-130			
Xylene (o)	0.105	0.00100	"	0.100		105	70-130			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.2	75-125			

**LCS Dup (P012309-BS1)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0863	0.00100	mg/kg wet	0.100		86.3	70-130	2.99	20	
Toluene	0.0863	0.00100	"	0.100		86.3	70-130	6.85	20	
Ethylbenzene	0.0946	0.00100	"	0.100		94.6	70-130	6.08	20	
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	70-130	4.66	20	
Xylene (o)	0.0986	0.00100	"	0.100		98.6	70-130	6.18	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.4	75-125			

**Calibration Check (P012309-CCV1)**

Prepared &amp; Analyzed: 09/23/20

Benzene	0.0886	0.00100	mg/kg wet	0.100		88.6	80-120			
Toluene	0.0914	0.00100	"	0.100		91.4	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.9	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012309 - General Preparation (GC)****Calibration Check (P012309-CCV2)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0826	0.00100	mg/kg wet	0.100		82.6	80-120			
Toluene	0.0819	0.00100	"	0.100		81.9	80-120			
Ethylbenzene	0.0885	0.00100	"	0.100		88.5	80-120			
Xylene (p/m)	0.165	0.00200	"	0.200		82.7	80-120			
Xylene (o)	0.0896	0.00100	"	0.100		89.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.6	75-125			

**Calibration Check (P012309-CCV3)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0919	0.00100	mg/kg wet	0.100		91.9	80-120			
Toluene	0.0882	0.00100	"	0.100		88.2	80-120			
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.4	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			

**Matrix Spike (P012309-MS1)**

Source: 0123008-21

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0866	0.00114	mg/kg dry	0.114	ND	76.2	80-120			QM-07
Toluene	0.0785	0.00114	"	0.114	ND	69.1	80-120			QM-07
Ethylbenzene	0.0989	0.00114	"	0.114	ND	87.0	80-120			
Xylene (p/m)	0.165	0.00227	"	0.227	ND	72.4	80-120			QM-07
Xylene (o)	0.0844	0.00114	"	0.114	ND	74.3	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.130		"	0.136		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.136		97.4	75-125			

**Matrix Spike Dup (P012309-MSD1)**

Source: 0123008-21

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0933	0.00114	mg/kg dry	0.114	ND	82.1	80-120	7.46	20	
Toluene	0.0851	0.00114	"	0.114	ND	74.9	80-120	8.10	20	QM-07
Ethylbenzene	0.107	0.00114	"	0.114	ND	94.0	80-120	7.73	20	
Xylene (p/m)	0.178	0.00227	"	0.227	ND	78.5	80-120	8.10	20	QM-07
Xylene (o)	0.0934	0.00114	"	0.114	ND	82.2	80-120	10.1	20	
Surrogate: 1,4-Difluorobenzene	0.130		"	0.136		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.136		97.7	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012412 - General Preparation (GC)****Blank (P012412-BLK1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.160		"	0.120		134	75-125			S-GC

**LCS (P012412-BS1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0934	0.00100	mg/kg wet	0.100		93.4	70-130			
Toluene	0.0925	0.00100	"	0.100		92.5	70-130			
Ethylbenzene	0.0938	0.00100	"	0.100		93.8	70-130			
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130			
Xylene (o)	0.118	0.00100	"	0.100		118	70-130			
Surrogate: 4-Bromofluorobenzene	0.151		"	0.120		126	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	75-125			

**LCS Dup (P012412-BSD1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0944	0.00100	mg/kg wet	0.100		94.4	70-130	1.05	20	
Toluene	0.0940	0.00100	"	0.100		94.0	70-130	1.61	20	
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	70-130	3.85	20	
Xylene (p/m)	0.207	0.00200	"	0.200		104	70-130	2.50	20	
Xylene (o)	0.119	0.00100	"	0.100		119	70-130	0.929	20	
Surrogate: 4-Bromofluorobenzene	0.156		"	0.120		130	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			

**Calibration Check (P012412-CCV1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0903	0.00100	mg/kg wet	0.100		90.3	80-120			
Toluene	0.0903	0.00100	"	0.100		90.3	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.2	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.150		"	0.120		125	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I2412 - General Preparation (GC)****Calibration Check (P0I2412-CCV2)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0917	0.00100	mg/kg wet	0.100		91.7	80-120			
Toluene	0.0912	0.00100	"	0.100		91.2	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.0	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.141		"	0.120		118	75-125			

**Calibration Check (P0I2412-CCV3)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0899	0.00100	mg/kg wet	0.100		89.9	80-120			
Toluene	0.0900	0.00100	"	0.100		90.0	80-120			
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.1	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		116	75-125			

**Matrix Spike (P0I2412-MS1)**

Source: 0123010-14

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0793	0.00103	mg/kg dry	0.103	0.000948	76.0	80-120			QM-07
Toluene	0.0773	0.00103	"	0.103	0.00400	71.1	80-120			QM-07
Ethylbenzene	0.0890	0.00103	"	0.103	0.000670	85.7	80-120			
Xylene (p/m)	0.143	0.00206	"	0.206	0.00180	68.6	80-120			QM-07
Xylene (o)	0.0779	0.00103	"	0.103	ND	75.6	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.124		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.145		"	0.124		117	75-125			

**Matrix Spike Dup (P0I2412-MSD1)**

Source: 0123010-14

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0784	0.00103	mg/kg dry	0.103	0.000948	75.1	80-120	1.19	20	QM-07
Toluene	0.0742	0.00103	"	0.103	0.00400	68.1	80-120	4.31	20	QM-07
Ethylbenzene	0.0845	0.00103	"	0.103	0.000670	81.4	80-120	5.18	20	
Xylene (p/m)	0.138	0.00206	"	0.206	0.00180	66.0	80-120	3.80	20	QM-07
Xylene (o)	0.0737	0.00103	"	0.103	ND	71.5	80-120	5.52	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.124		"	0.124		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.150		"	0.124		121	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012414 - General Preparation (GC)****Blank (P012414-BLK1)**

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.156		"	0.120		130	75-125			S-GC

**LCS (P012414-BS1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0896	0.00100	mg/kg wet	0.100		89.6	70-130			
Toluene	0.0883	0.00100	"	0.100		88.3	70-130			
Ethylbenzene	0.0883	0.00100	"	0.100		88.3	70-130			
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

**LCS Dup (P012414-BSD1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0834	0.00100	mg/kg wet	0.100		83.4	70-130	7.25	20	
Toluene	0.0811	0.00100	"	0.100		81.1	70-130	8.50	20	
Ethylbenzene	0.0877	0.00100	"	0.100		87.7	70-130	0.693	20	
Xylene (p/m)	0.170	0.00200	"	0.200		85.1	70-130	6.93	20	
Xylene (o)	0.0982	0.00100	"	0.100		98.2	70-130	8.02	20	
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		123	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

**Calibration Check (P012414-CCV1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0899	0.00100	mg/kg wet	0.100		89.9	80-120			
Toluene	0.0900	0.00100	"	0.100		90.0	80-120			
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.1	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012414 - General Preparation (GC)****Calibration Check (P012414-CCV2)**

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	80-120			
Toluene	0.0867	0.00100	"	0.100		86.7	80-120			
Ethylbenzene	0.0970	0.00100	"	0.100		97.0	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.6	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.153		"	0.120		127	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			

**Calibration Check (P012414-CCV3)**

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0900	0.00100	mg/kg wet	0.100		90.0	80-120			
Toluene	0.0868	0.00100	"	0.100		86.8	80-120			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.8	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		124	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.8	75-125			

**Matrix Spike (P012414-MS1)**

Source: 0123010-34

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0714	0.00104	mg/kg dry	0.104	0.00526	63.5	80-120			QM-07
Toluene	0.0575	0.00104	"	0.104	0.00545	50.0	80-120			QM-07
Ethylbenzene	0.0559	0.00104	"	0.104	0.000583	53.1	80-120			QM-07
Xylene (p/m)	0.0931	0.00208	"	0.208	0.00130	44.0	80-120			QM-07
Xylene (o)	0.0454	0.00104	"	0.104	ND	43.6	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.125		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.152		"	0.125		122	75-125			

**Matrix Spike Dup (P012414-MSD1)**

Source: 0123010-34

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0704	0.00104	mg/kg dry	0.104	0.00526	62.5	80-120	1.57	20	QM-07
Toluene	0.0523	0.00104	"	0.104	0.00545	45.0	80-120	10.5	20	QM-07
Ethylbenzene	0.0472	0.00104	"	0.104	0.000583	44.7	80-120	17.2	20	QM-07
Xylene (p/m)	0.0789	0.00208	"	0.208	0.00130	37.3	80-120	16.7	20	QM-07
Xylene (o)	0.0371	0.00104	"	0.104	ND	35.6	80-120	20.2	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.152		"	0.125		122	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.125		96.8	75-125			

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**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013003 - General Preparation (GC)****Blank (P013003-BLK1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.153		"	0.120		128	75-125			S-GC

**LCS (P013003-BS1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0908	0.00100	mg/kg wet	0.100		90.8	70-130			
Toluene	0.0885	0.00100	"	0.100		88.5	70-130			
Ethylbenzene	0.0932	0.00100	"	0.100		93.2	70-130			
Xylene (p/m)	0.194	0.00200	"	0.200		97.0	70-130			
Xylene (o)	0.112	0.00100	"	0.100		112	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.155		"	0.120		129	75-125			S-GC

**LCS Dup (P013003-BS1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0812	0.00100	mg/kg wet	0.100		81.2	70-130	11.2	20	
Toluene	0.0814	0.00100	"	0.100		81.4	70-130	8.45	20	
Ethylbenzene	0.0907	0.00100	"	0.100		90.7	70-130	2.75	20	
Xylene (p/m)	0.173	0.00200	"	0.200		86.6	70-130	11.4	20	
Xylene (o)	0.0982	0.00100	"	0.100		98.2	70-130	13.0	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		123	75-125			

**Calibration Check (P013003-CCV1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0838	0.00100	mg/kg wet	0.100		83.8	80-120			
Toluene	0.0816	0.00100	"	0.100		81.6	80-120			
Ethylbenzene	0.0909	0.00100	"	0.100		90.9	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.2	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.149		"	0.120		124	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	75-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013003 - General Preparation (GC)****Calibration Check (P013003-CCV2)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0882	0.00100	mg/kg wet	0.100		88.2	80-120			
Toluene	0.0826	0.00100	"	0.100		82.6	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100		94.7	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		89.8	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.154		"	0.120		128	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	75-125			

**Calibration Check (P013003-CCV3)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0900	0.00100	mg/kg wet	0.100		90.0	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.3	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

**Matrix Spike (P013003-MS1)**

Source: 0130006-01

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.257	0.00149	mg/kg dry	0.149	0.385	NR	80-120			QM-07
Toluene	0.353	0.00149	"	0.149	2.86	NR	80-120			QM-07
Ethylbenzene	0.536	0.00149	"	0.149	7.49	NR	80-120			QM-07
Xylene (p/m)	1.15	0.00299	"	0.299	13.5	NR	80-120			QM-07
Xylene (o)	0.420	0.00149	"	0.149	8.47	NR	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0885		"	0.179		49.4	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.171		"	0.179		95.6	75-125			

**Matrix Spike Dup (P013003-MSD1)**

Source: 0130006-01

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.251	0.00149	mg/kg dry	0.149	0.385	NR	80-120	NR	20	QM-07
Toluene	0.360	0.00149	"	0.149	2.86	NR	80-120	NR	20	QM-07
Ethylbenzene	0.741	0.00149	"	0.149	7.49	NR	80-120	NR	20	QM-07
Xylene (p/m)	1.15	0.00299	"	0.299	13.5	NR	80-120	NR	20	QM-07
Xylene (o)	0.434	0.00149	"	0.149	8.47	NR	80-120	NR	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0986		"	0.179		55.1	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.186		"	0.179		104	75-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013009 - General Preparation (GC)****Blank (P013009-BLK1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	75-125			

**LCS (P013009-BS1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0912	0.00100	mg/kg wet	0.100		91.2	70-130			
Toluene	0.0886	0.00100	"	0.100		88.6	70-130			
Ethylbenzene	0.0970	0.00100	"	0.100		97.0	70-130			
Xylene (p/m)	0.193	0.00200	"	0.200		96.7	70-130			
Xylene (o)	0.111	0.00100	"	0.100		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.159		"	0.120		132	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	75-125			

**LCS Dup (P013009-BSD1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0828	0.00100	mg/kg wet	0.100		82.8	70-130	9.66	20	
Toluene	0.0833	0.00100	"	0.100		83.3	70-130	6.21	20	
Ethylbenzene	0.0925	0.00100	"	0.100		92.5	70-130	4.78	20	
Xylene (p/m)	0.171	0.00200	"	0.200		85.7	70-130	12.0	20	
Xylene (o)	0.100	0.00100	"	0.100		100	70-130	10.0	20	
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

**Calibration Check (P013009-CCV1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0900	0.00100	mg/kg wet	0.100		90.0	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.3	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013009 - General Preparation (GC)****Calibration Check (P013009-CCV2)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0876	0.00100	mg/kg wet	0.100		87.6	80-120			
Toluene	0.0861	0.00100	"	0.100		86.1	80-120			
Ethylbenzene	0.0966	0.00100	"	0.100		96.6	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.4	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		121	75-125			

**Calibration Check (P013009-CCV3)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0852	0.00100	mg/kg wet	0.100		85.2	80-120			
Toluene	0.0873	0.00100	"	0.100		87.3	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.171	0.00200	"	0.200		85.4	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

**Matrix Spike (P013009-MS1)**

Source: 0123010-72

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0774	0.00100	mg/kg dry	0.100	ND	77.4	80-120			QM-07
Toluene	0.0763	0.00100	"	0.100	ND	76.3	80-120			QM-07
Ethylbenzene	0.0832	0.00100	"	0.100	ND	83.2	80-120			
Xylene (p/m)	0.132	0.00200	"	0.200	ND	66.2	80-120			QM-07
Xylene (o)	0.0729	0.00100	"	0.100	ND	72.9	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		122	75-125			

**Matrix Spike Dup (P013009-MSD1)**

Source: 0123010-72

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0715	0.00100	mg/kg dry	0.100	ND	71.5	80-120	7.94	20	QM-07
Toluene	0.0726	0.00100	"	0.100	ND	72.6	80-120	5.00	20	QM-07
Ethylbenzene	0.0781	0.00100	"	0.100	ND	78.1	80-120	6.30	20	QM-07
Xylene (p/m)	0.125	0.00200	"	0.200	ND	62.3	80-120	6.18	20	QM-07
Xylene (o)	0.0687	0.00100	"	0.100	ND	68.7	80-120	5.96	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.6	75-125			

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012402 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P012402-BLK1)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Blank (P012402-BLK2)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Blank (P012402-BLK3)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Blank (P012402-BLK4)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Duplicate (P012402-DUP1)</b>	<b>Source: 0123010-10</b>		Prepared & Analyzed: 09/24/20							
% Moisture	5.0	0.1	%		5.0			0.00	20	
<b>Duplicate (P012402-DUP2)</b>	<b>Source: 0123010-20</b>		Prepared & Analyzed: 09/24/20							
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P012402-DUP3)</b>	<b>Source: 0123010-35</b>		Prepared & Analyzed: 09/24/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P012402-DUP4)</b>	<b>Source: 0123010-45</b>		Prepared & Analyzed: 09/24/20							
% Moisture	1.0	0.1	%		ND			200	20	
<b>Duplicate (P012402-DUP5)</b>	<b>Source: 0123010-60</b>		Prepared & Analyzed: 09/24/20							
% Moisture	ND	0.1	%		1.0			200	20	
<b>Duplicate (P012402-DUP6)</b>	<b>Source: 0123010-70</b>		Prepared & Analyzed: 09/24/20							
% Moisture	ND	0.1	%		ND				20	

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**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012805 - \*\*\* DEFAULT PREP \*\*\*****Blank (P012805-BLK1)**

Prepared &amp; Analyzed: 09/28/20

Chloride	ND	1.00	mg/kg wet
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**LCS (P012805-BS1)**

Prepared &amp; Analyzed: 09/28/20

Chloride	398	1.00	mg/kg wet	400	99.6	80-120
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**LCS Dup (P012805-BSD1)**

Prepared &amp; Analyzed: 09/28/20

Chloride	397	1.00	mg/kg wet	400	99.4	80-120	0.201	20
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**Calibration Blank (P012805-CCB2)**

Prepared &amp; Analyzed: 09/28/20

Chloride	0.00		mg/kg wet
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**Calibration Check (P012805-CCV1)**

Prepared &amp; Analyzed: 09/28/20

Chloride	19.8		mg/kg	20.0	98.9	0-200
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**Calibration Check (P012805-CCV2)**

Prepared &amp; Analyzed: 09/28/20

Chloride	19.9		mg/kg	20.0	99.7	0-200
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**Calibration Check (P012805-CCV3)**

Prepared &amp; Analyzed: 09/28/20

Chloride	19.9		mg/kg	20.0	99.7	0-200
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**Matrix Spike (P012805-MS1)**

Source: 0123008-19

Prepared &amp; Analyzed: 09/28/20

Chloride	910	5.75	mg/kg dry	575	286	109	80-120
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**Matrix Spike (P012805-MS2)**

Source: 0123010-02

Prepared &amp; Analyzed: 09/28/20

Chloride	527	1.05	mg/kg dry	526	9.18	98.3	80-120
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**Matrix Spike Dup (P012805-MSD1)**

Source: 0123008-19

Prepared &amp; Analyzed: 09/28/20

Chloride	881	5.75	mg/kg dry	575	286	104	80-120	3.18	20
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012805 - \*\*\* DEFAULT PREP \*\*\*****Matrix Spike Dup (P012805-MSD2)****Source: 0123010-02**

Prepared &amp; Analyzed: 09/28/20

Chloride	516	1.05	mg/kg dry	526	9.18	96.3	80-120	2.07	20	
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**Batch P012903 - \*\*\* DEFAULT PREP \*\*\*****Blank (P012903-BLK1)**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	ND	1.00	mg/kg wet							
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**LCS (P012903-BS1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	394	1.00	mg/kg wet	400		98.6	80-120			
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**LCS Dup (P012903-BSD1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	396	1.00	mg/kg wet	400		99.1	80-120	0.486	20	
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**Calibration Check (P012903-CCV1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	20.1		mg/kg	20.0		101	0-200			
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**Calibration Check (P012903-CCV2)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	22.0		mg/kg	20.0		110	0-200			
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**Matrix Spike (P012903-MS1)****Source: 0123010-12**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	504	1.02	mg/kg dry	510	2.87	98.3	80-120			
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**Matrix Spike (P012903-MS2)****Source: 0123010-22**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	58.4	1.02	mg/kg dry	51.0	7.51	99.8	80-120			
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**Matrix Spike Dup (P012903-MSD1)****Source: 0123010-12**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	491	1.02	mg/kg dry	510	2.87	95.7	80-120	2.63	20	
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Project Manager: Sylwia Reynolds

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012903 - \*\*\* DEFAULT PREP \*\*\*****Matrix Spike Dup (P012903-MSD2)****Source: 0123010-22**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	55.9	1.02	mg/kg dry	51.0	7.51	94.8	80-120	4.50	20	
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**Batch P012904 - \*\*\* DEFAULT PREP \*\*\*****Blank (P012904-BLK1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	ND	1.00	mg/kg wet							
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**LCS (P012904-BS1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	455	1.00	mg/kg wet	420		108	80-120			
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**LCS Dup (P012904-BSD1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	484	1.00	mg/kg wet	420		115	80-120	6.37	20	
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**Calibration Check (P012904-CCV1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	20.6		mg/kg	20.0		103	0-200			
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**Calibration Check (P012904-CCV2)**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	20.4		mg/kg	20.0		102	0-200			
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**Calibration Check (P012904-CCV3)**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	21.1		mg/kg	20.0		106	0-200			
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**Matrix Spike (P012904-MS1)****Source: 0123010-32**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	52.6	1.04	mg/kg dry	52.1	3.66	93.9	80-120			
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**Matrix Spike (P012904-MS2)****Source: 0123010-42**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	52.3	1.00	mg/kg dry	50.0	3.66	97.3	80-120			
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Project Manager: Sylwia Reynolds

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012904 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike Dup (P012904-MSD1)</b>		<b>Source: 0123010-32</b>		Prepared: 09/29/20 Analyzed: 10/01/20						
Chloride	86.1	1.04	mg/kg dry	52.1	3.66	158	80-120	48.4	20	QM-05
<b>Matrix Spike Dup (P012904-MSD2)</b>		<b>Source: 0123010-42</b>		Prepared: 09/29/20 Analyzed: 10/01/20						
Chloride	58.3	1.00	mg/kg dry	50.0	3.66	109	80-120	10.9	20	

**Batch P012906 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P012906-BLK1)</b>		Prepared & Analyzed: 09/29/20								
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P012906-BS1)</b>		Prepared & Analyzed: 09/29/20								
Chloride	403	1.00	mg/kg wet	400		101	80-120			
<b>Calibration Check (P012906-CCV1)</b>		Prepared & Analyzed: 09/29/20								
Chloride	20.0		mg/kg	20.0		100	0-200			
<b>Calibration Check (P012906-CCV2)</b>		Prepared & Analyzed: 09/29/20								
Chloride	20.2		mg/kg	20.0		101	0-200			
<b>Matrix Spike (P012906-MS1)</b>		<b>Source: 0123010-52</b>		Prepared & Analyzed: 09/29/20						
Chloride	50.7	1.00	mg/kg dry	50.0	4.61	92.1	80-120			
<b>Matrix Spike (P012906-MS2)</b>		<b>Source: 0123010-62</b>		Prepared & Analyzed: 09/29/20						
Chloride	54.4	1.00	mg/kg dry	50.0	7.96	92.9	80-120			
<b>Matrix Spike Dup (P012906-MSD1)</b>		<b>Source: 0123010-52</b>		Prepared & Analyzed: 09/29/20						
Chloride	49.6	1.00	mg/kg dry	50.0	4.61	90.1	80-120	2.07	20	

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Project Manager: Sylwia Reynolds

Fax:

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**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I2906 - \*\*\* DEFAULT PREP \*\*\*****Matrix Spike Dup (P0I2906-MSD2)****Source: 0123010-62**

Prepared &amp; Analyzed: 09/29/20

Chloride	51.5	1.00	mg/kg dry	50.0	7.96	87.1	80-120	5.51	20	
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**Batch P0J0105 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0J0105-BLK1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	ND	1.00	mg/kg wet							
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**LCS (P0J0105-BS1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	389	1.00	mg/kg wet	400		97.3	80-120			
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**LCS Dup (P0J0105-BSD1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	385	1.00	mg/kg wet	400		96.4	80-120	1.01	20	
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**Calibration Blank (P0J0105-CCB1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	0.00		mg/kg wet							
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**Calibration Check (P0J0105-CCV1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	20.1		mg/kg	20.0		100	0-200			
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**Calibration Check (P0J0105-CCV2)**

Prepared &amp; Analyzed: 10/01/20

Chloride	19.4		mg/kg	20.0		96.9	0-200			
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**Calibration Check (P0J0105-CCV3)**

Prepared &amp; Analyzed: 10/01/20

Chloride	20.2		mg/kg	20.0		101	0-200			
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**Matrix Spike (P0J0105-MS1)****Source: 0123010-72**

Prepared: 10/01/20 Analyzed: 10/02/20

Chloride	497	1.00	mg/kg dry	500	11.6	97.1	80-120			
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Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0J0105 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P0J0105-MS2)</b>		<b>Source: 0125009-03</b>			Prepared & Analyzed: 10/01/20					
Chloride	7950	25.3	mg/kg dry	2530	5320	104	80-120			
<b>Matrix Spike Dup (P0J0105-MSD1)</b>		<b>Source: 0123010-72</b>			Prepared: 10/01/20 Analyzed: 10/02/20					
Chloride	490	1.00	mg/kg dry	500	11.6	95.8	80-120	1.34	20	
<b>Matrix Spike Dup (P0J0105-MSD2)</b>		<b>Source: 0125009-03</b>			Prepared & Analyzed: 10/01/20					
Chloride	8030	25.3	mg/kg dry	2530	5320	107	80-120	0.996	20	

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Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012311 - TX 1005****Blank (P012311-BLK1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.3		"	100		80.3	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.0	70-130			

**LCS (P012311-BS1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	797	25.0	mg/kg wet	1000		79.7	75-125			
>C12-C28	932	25.0	"	1000		93.2	75-125			
Surrogate: 1-Chlorooctane	98.8		"	100		98.8	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

**LCS Dup (P012311-BSD1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	789	25.0	mg/kg wet	1000		78.9	75-125	0.966	20	
>C12-C28	986	25.0	"	1000		98.6	75-125	5.67	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	51.3		"	50.0		103	70-130			

**Calibration Check (P012311-CCV1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	437	25.0	mg/kg wet	500		87.5	85-115			
>C12-C28	436	25.0	"	500		87.2	85-115			
Surrogate: 1-Chlorooctane	78.4		"	100		78.4	70-130			
Surrogate: o-Terphenyl	39.6		"	50.0		79.1	70-130			

**Calibration Check (P012311-CCV2)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	433	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	488	25.0	"	500		97.6	85-115			
Surrogate: 1-Chlorooctane	89.9		"	100		89.9	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.9	70-130			

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Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012311 - TX 1005****Calibration Check (P012311-CCV3)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	453	25.0	mg/kg wet	500		90.7	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	93.9		"	100		93.9	70-130			
Surrogate: o-Terphenyl	46.7		"	50.0		93.3	70-130			

**Matrix Spike (P012311-MS1)**

Source: 0123010-13

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	917	25.8	mg/kg dry	1030	15.8	87.4	75-125			
>C12-C28	1170	25.8	"	1030	ND	114	75-125			
Surrogate: 1-Chlorooctane	109		"	103		105	70-130			
Surrogate: o-Terphenyl	46.2		"	51.5		89.6	70-130			

**Matrix Spike Dup (P012311-MSD1)**

Source: 0123010-13

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	906	25.8	mg/kg dry	1030	15.8	86.3	75-125	1.26	20	
>C12-C28	1140	25.8	"	1030	ND	111	75-125	2.87	20	
Surrogate: 1-Chlorooctane	107		"	103		104	70-130			
Surrogate: o-Terphenyl	45.4		"	51.5		88.1	70-130			

**Batch P012405 - TX 1005****Blank (P012405-BLK1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	71.5		"	100		71.5	70-130			
Surrogate: o-Terphenyl	39.4		"	50.0		78.9	70-130			

**LCS (P012405-BS1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	759	25.0	mg/kg wet	1000		75.9	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	90.8		"	100		90.8	70-130			
Surrogate: o-Terphenyl	39.2		"	50.0		78.3	70-130			

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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012405 - TX 1005****LCS Dup (P012405-BSD1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	785	25.0	mg/kg wet	1000		78.5	75-125	3.37	20	
>C12-C28	952	25.0	"	1000		95.2	75-125	1.31	20	
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	40.0		"	50.0		80.0	70-130			

**Calibration Check (P012405-CCV1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	426	25.0	mg/kg wet	500		85.1	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	85.9		"	100		85.9	70-130			
Surrogate: o-Terphenyl	40.7		"	50.0		81.5	70-130			

**Calibration Check (P012405-CCV2)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	438	25.0	mg/kg wet	500		87.5	85-115			
>C12-C28	499	25.0	"	500		99.7	85-115			
Surrogate: 1-Chlorooctane	87.5		"	100		87.5	70-130			
Surrogate: o-Terphenyl	41.7		"	50.0		83.4	70-130			

**Matrix Spike (P012405-MS1)**

Source: 0123010-20

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	856	26.0	mg/kg dry	1040	12.6	81.0	75-125			
>C12-C28	1000	26.0	"	1040	25.4	93.8	75-125			
Surrogate: 1-Chlorooctane	102		"	104		97.6	70-130			
Surrogate: o-Terphenyl	47.0		"	52.1		90.3	70-130			

**Matrix Spike Dup (P012405-MSD1)**

Source: 0123010-20

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	906	26.0	mg/kg dry	1040	12.6	85.7	75-125	5.67	20	
>C12-C28	1090	26.0	"	1040	25.4	103	75-125	8.99	20	
Surrogate: 1-Chlorooctane	106		"	104		102	70-130			
Surrogate: o-Terphenyl	46.1		"	52.1		88.4	70-130			

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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012406 - TX 1005****Blank (P012406-BLK1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	82.6		"	100		82.6	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.2	70-130			

**LCS (P012406-BS1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	828	25.0	mg/kg wet	1000		82.8	75-125			
>C12-C28	920	25.0	"	1000		92.0	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	41.9		"	50.0		83.7	70-130			

**LCS Dup (P012406-BSD1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	856	25.0	mg/kg wet	1000		85.6	75-125	3.29	20	
>C12-C28	938	25.0	"	1000		93.8	75-125	1.87	20	
Surrogate: 1-Chlorooctane	92.2		"	100		92.2	70-130			
Surrogate: o-Terphenyl	43.0		"	50.0		86.0	70-130			

**Calibration Check (P012406-CCV1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	440	25.0	mg/kg wet	500		87.9	85-115			
>C12-C28	474	25.0	"	500		94.9	85-115			
Surrogate: 1-Chlorooctane	87.3		"	100		87.3	70-130			
Surrogate: o-Terphenyl	40.5		"	50.0		81.1	70-130			

**Calibration Check (P012406-CCV2)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	487	25.0	mg/kg wet	500		97.4	85-115			
>C12-C28	495	25.0	"	500		99.0	85-115			
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	44.5		"	50.0		89.0	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012406 - TX 1005**

<b>Matrix Spike (P012406-MS1)</b>	<b>Source: 0123010-53</b>			Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	799	25.0	mg/kg dry	1000	20.1	77.9	75-125			
>C12-C28	880	25.0	"	1000	127	75.3	75-125			
Surrogate: 1-Chlorooctane	85.9		"	100		85.9	70-130			
Surrogate: o-Terphenyl	37.7		"	50.0		75.4	70-130			

<b>Matrix Spike Dup (P012406-MSD1)</b>	<b>Source: 0123010-53</b>			Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	764	25.0	mg/kg dry	1000	20.1	74.4	75-125	4.54	20	QM-07
>C12-C28	841	25.0	"	1000	127	71.4	75-125	5.29	20	QM-07
Surrogate: 1-Chlorooctane	81.7		"	100		81.7	70-130			
Surrogate: o-Terphenyl	37.2		"	50.0		74.4	70-130			

**Batch P012407 - TX 1005**

<b>Blank (P012407-BLK1)</b>				Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.0		"	100		80.0	70-130			
Surrogate: o-Terphenyl	40.7		"	50.0		81.4	70-130			

<b>LCS (P012407-BS1)</b>				Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	811	25.0	mg/kg wet	1000		81.1	75-125			
>C12-C28	892	25.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	87.6		"	100		87.6	70-130			
Surrogate: o-Terphenyl	39.8		"	50.0		79.5	70-130			

<b>LCS Dup (P012407-BSD1)</b>				Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	811	25.0	mg/kg wet	1000		81.1	75-125	0.0197	20	
>C12-C28	901	25.0	"	1000		90.1	75-125	0.976	20	
Surrogate: 1-Chlorooctane	87.7		"	100		87.7	70-130			
Surrogate: o-Terphenyl	40.0		"	50.0		80.0	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012407 - TX 1005****Calibration Check (P012407-CCV1)**

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	467	25.0	mg/kg wet	500		93.4	85-115			
>C12-C28	493	25.0	"	500		98.5	85-115			
Surrogate: 1-Chlorooctane	88.9		"	100		88.9	70-130			
Surrogate: o-Terphenyl	42.2		"	50.0		84.4	70-130			

**Calibration Check (P012407-CCV2)**

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	480	25.0	mg/kg wet	500		95.9	85-115			
>C12-C28	496	25.0	"	500		99.1	85-115			
Surrogate: 1-Chlorooctane	92.6		"	100		92.6	70-130			
Surrogate: o-Terphenyl	43.4		"	50.0		86.9	70-130			

**Calibration Check (P012407-CCV3)**

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	449	25.0	mg/kg wet	500		89.9	85-115			
>C12-C28	486	25.0	"	500		97.3	85-115			
Surrogate: 1-Chlorooctane	88.5		"	100		88.5	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	70-130			

**Matrix Spike (P012407-MS1)**

Source: 0123010-73

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	875	25.0	mg/kg dry	1000	12.5	86.3	75-125			
>C12-C28	973	25.0	"	1000	ND	97.3	75-125			
Surrogate: 1-Chlorooctane	93.0		"	100		93.0	70-130			
Surrogate: o-Terphenyl	43.1		"	50.0		86.1	70-130			

**Matrix Spike Dup (P012407-MSD1)**

Source: 0123010-73

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	880	25.0	mg/kg dry	1000	12.5	86.7	75-125	0.550	20	
>C12-C28	977	25.0	"	1000	ND	97.7	75-125	0.396	20	
Surrogate: 1-Chlorooctane	95.4		"	100		95.4	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		86.9	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012505 - TX 1005****Blank (P012505-BLK1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	81.9		"	100		81.9	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.5	70-130			

**LCS (P012505-BS1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	840	25.0	mg/kg wet	1000		84.0	75-125			
>C12-C28	910	25.0	"	1000		91.0	75-125			
Surrogate: 1-Chlorooctane	91.0		"	100		91.0	70-130			
Surrogate: o-Terphenyl	42.6		"	50.0		85.3	70-130			

**LCS Dup (P012505-BSD1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	851	25.0	mg/kg wet	1000		85.1	75-125	1.33	20	
>C12-C28	935	25.0	"	1000		93.5	75-125	2.73	20	
Surrogate: 1-Chlorooctane	92.7		"	100		92.7	70-130			
Surrogate: o-Terphenyl	43.4		"	50.0		86.8	70-130			

**Calibration Check (P012505-CCV1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	440	25.0	mg/kg wet	500		87.9	85-115			
>C12-C28	463	25.0	"	500		92.7	85-115			
Surrogate: 1-Chlorooctane	88.4		"	100		88.4	70-130			
Surrogate: o-Terphenyl	41.2		"	50.0		82.3	70-130			

**Calibration Check (P012505-CCV2)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	487	25.0	mg/kg wet	500		97.5	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	96.2		"	100		96.2	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012505 - TX 1005****Calibration Check (P012505-CCV3)**

Prepared: 09/25/20 Analyzed: 09/26/20

C6-C12	457	25.0	mg/kg wet	500		91.4	85-115			
>C12-C28	468	25.0	"	500		93.7	85-115			
Surrogate: 1-Chlorooctane	91.5		"	100		91.5	70-130			
Surrogate: o-Terphenyl	42.9		"	50.0		85.7	70-130			

**Matrix Spike (P012505-MS1)**

Source: 0125008-05

Prepared: 09/25/20 Analyzed: 09/26/20

C6-C12	965	26.0	mg/kg dry	1040	14.2	91.3	75-125			
>C12-C28	1720	26.0	"	1040	893	79.7	75-125			
Surrogate: 1-Chlorooctane	108		"	104		104	70-130			
Surrogate: o-Terphenyl	58.0		"	52.1		111	70-130			

**Matrix Spike Dup (P012505-MSD1)**

Source: 0125008-05

Prepared: 09/25/20 Analyzed: 09/26/20

C6-C12	995	26.0	mg/kg dry	1040	14.2	94.1	75-125	3.03	20	
>C12-C28	1630	26.0	"	1040	893	70.7	75-125	12.0	20	QM-05
Surrogate: 1-Chlorooctane	108		"	104		104	70-130			
Surrogate: o-Terphenyl	56.3		"	52.1		108	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

10/5/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

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If you have received this material in error, please notify us immediately at 432-686-7235.



## CHAIN OF CUSTODY/RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: *Deanne Equib*e-mail: [sylvia.reynolds@deandis.com](mailto:sylvia.reynolds@deandis.com)[terridley@deandis.com](mailto:terridley@deandis.com)[kaylanlongee@deanequib.com](mailto:kaylanlongee@deanequib.com)

Project Name: Plains Artesia East

Project #: PE-2075

Project Loc: Eddy County, NM

PO # SRS # Artesia Gathering Remediation

Report Format: ☒ Standard ☐ TRRP ☐ NPDES[elizabethstuart@deandis.com](mailto:elizabethstuart@deandis.com)Analyze For: *Amber Lemoine & Group*

(lab use only)

ORDER #: 0123010

LAB # (lab use only)

## FIELD CODE

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250,ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL	GW = Groundwater S	NP=Non-Potable Spe	TPH TX1005 EXT	BTEx 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NE	7 Day Tat	
1	BH - 32 @ 3'	3'	3'	09/18/20	9:00 Am		1	✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2	BH - 33 @ 3'	3'	3'	09/18/20	9:05 Am		1	✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
3	BH - 34 @ 3'	3'	3'	09/18/20	9:10 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4	BH - 35 @ 3'	3'	3'	09/18/20	9:15 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5	BH - 36 @ 3'	3'	3'	09/18/20	9:20 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6	BH - 37 @ 3'	3'	3'	09/18/20	9:25 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7	BH - 38 @ 3'	3'	3'	09/18/20	9:30 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8	BH - 39 @ 3'	3'	3'	09/18/20	9:35 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
9	BH - 30 @ 3'	3'	3'	09/18/20	9:40 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	BH - 31 @ 3'	3'	3'	09/18/20	9:45 Am			✓								So:1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Laboratory Comments:																															

## Laboratory Comments:

Sample Containers intact? ☒ N  
 VOCs Free of Headspace? ☒ N  
 Labels on containers? ☒ N  
 Custody seals on containers? ☒ N  
 Custody seals on cooler(s)? ☒ N  
 Sample Hand Delivered? ☒ Y  
 by Courier? ☒ Y  
 by UPS? ☒ Y  
 by DHL? ☒ Y  
 by FedEx? ☒ Y  
 by Lone Star? ☒ Y

Temperature Upon Receipt: 5.1 °C  
 Adjusted: 6.1 °C  
 Factor: 0.41







## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Pernian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: *[Signature]*

e-mail:

syvriareynolds@deandigs.com  
leftindley@deandigs.com  
kavianlongee@deanequip.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

elizabethstuart@deandigs.com

Anita Lewis & Co. Inc.  
Analyze For:

Project Name: Plains Artesia East

Project #: PP-2075

Project Loc: Eddy County, NM

PO #: SRS + Artesia Geothermal Reclamation

ORDER #: 0123010

(lab use only)

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250 ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Requested by: *[Signature]*

Date

Time

Received by:

Date

Time

Requested by: *[Signature]*

Date

Time

Received by:

Date

Time

Requested by: *[Signature]*

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered

by Courier? UPS

Temperature Upon Receipt:

Adjusted:

N

N

N

N

N

N

N

N





## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature:

Fax No: e-mail:

syvareynolds@deandigs.com  
leftindley@deandigs.com  
kaylanlongee@deanequip.com

Project Name: Plains Artesia East

Project #: PP-2075

Project Loc: Eddy County, NM

PO #: SRS # Artesia Refractory Remediation

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

elizabethstuart@deandigs.com

Analyze For:

(lab use only)		LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250, ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCPL BENZENE	CHLORIDES	TCPL METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day Tat
31	BH-52 @ 3'	3'	3'	09/18/20	11:30 AM																													
32	BH-53 @ 3'	3'	3'	09/18/20	11:35 AM																													
33	BH-54 @ 3'	3'	3'	09/18/20	11:40 AM																													
34	BH-55 @ 3'	3'	3'	09/18/20	11:45 AM																													
35	BH-56 @ 3'	3'	3'	09/18/20	11:50 AM																													
36	BH-57 @ 3'	3'	3'	09/22/20	8:50 AM																													
37	BH-58 @ 1'	1'	1'	09/22/20	8:53 AM																													
38	BH-59 @ 1'	1'	1'	09/22/20	8:56 AM																													
39	BH-60 @ 1'	1'	1'	09/22/20	9:00 AM																													
40	BH-61 @ 1'	1'	1'	09/22/20	9:05 AM																													

Special Instructions:

Laboratory Comments:

Sample Containers Intact?

VOCA Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered?

by Courier?

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt:

Adjusted: 6.7

°C Factor

Off 12



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP

1400 Rankin Hwy

Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Fax No:

Sampler Signature: *[Signature]*

e-mail:

sylvia.reynolds@deandigs.com  
jeffindley@deandigs.com  
kaventon@deandigs.comReport Format: ☒ Standard ☐ TRRP ☐ NPDES

elizabeth.stuart@deandigs.com

Analyze for: *Artesia, El Paso, & Permian*

Project Name: Plains Artesia East

Project #: PP-2075

Project Loc: Eddy County, NM

PO #: SRS # Artesia Gathering Remediation

(lab use only)

ORDER #: 0123010

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 200 ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCPL BENZENE

CHLORIDES

TCPL METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Requested by: *[Signature]*

Date

Time

Requested by: *[Signature]*

Date

Time

Requested by: *[Signature]*

Date

Time

Date

Time

Date

Time

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Sample Hand Delivered by Courier?

Temperature Upon Receipt: 5-7 °C Factor 0.1

N

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## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-6926

Sampler Signature: *[Signature]*

(lab use only)

ORDER #: 0123610

Fax No:

e-mail:

syvialareynolds@deandigs.com  
jeffkindley@deandigs.com  
kavianlongee@deanequin.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
elizabethstuart@deandigs.com

Project Name: Plains Artesia East  
Project #: PP-2075  
Project Loc: Eddy County, NM

PO #: SES # Artesia Gathering Receptor

Analyze For: *Ammonia & Nitrate*

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250, ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Requested by:

Date

Time

Received by:

Date

Time

Requested by:

Date

Time

Received by:

Date

Time

Requested by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?  
VOCs Free of Headspace?  
Labels on containers?  
Custody seals on containers?  
Custody seals on cooler(s)?  
Sample Hand Delivered  
by Sampler/Client Rep.?  
by Courier? UPS  
Temperature Upon Receipt:  
Adjusted: °C Factor

N N N N N  
N N N N N  
N N N N N  
N N N N N  
N N N N N

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Jeff Kindley  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Lea County, NM

Lab Order Number: 0I11002



NELAP/TCEQ # T104704516-18-9

Report Date: 09/28/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-South	0I11002-01	Soil	09/08/20 14:17	09-10-2020 17:01

TCLP Benzene, TCLP 8 RCRA Metals, and RCI analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

[https://www.tceq.texas.gov/assets/public/compliance/compliance\\_support/qa/labs/als\\_svcs\\_houston.pdf](https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf)

NORM analysis were subcontracted to ARS International, Port Allen LA. Their report is attached to the email due to an incompatibility with our LIMS Reporting module.

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**SP-South**  
**0I11002-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

Reactive Cyanide	ND	100	ppm	1	P0I2404	09/18/20	09/18/20	SW846 9010B	SUB-13
Ignitability by Flashpoint	>212		°F	1	P0I2404	09/19/20	09/19/20	ASTM D93-80	SUB-13
<b>pH</b>	<b>7.31</b>	0.10	pH Units	1	P0I2404	09/17/20	09/17/20	EPA 9045B	SUB-13
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	
Reactive Sulfide	ND	100	ppm	1	P0I2404	09/18/20	09/18/20	SW846 9030B	SUB-13

**Naturally Occurring Radioactive Material (N.O.R.M.)**

Radium 226	ND	1.42	pCi/g	1	P0I2809	09/16/20	09/17/20	EPA 901.1	SUB12
Radium 228	ND	0.30	pCi/g	1	P0I2809	09/16/20	09/17/20	EPA 901.1	SUB12
Lead 210	ND	1.29	pCi/g	1	P0I2809	09/16/20	09/17/20	EPA 901.1	SUB12
<b>Total Gamma</b>	<b>9.56</b>		pCi/g	1	P0I2809	09/16/20	09/17/20	EPA 901.1	SUB12
<b>Lead 210 Analysis Error</b>	<b>0.68</b>		+/- 2 Sigma	1	P0I2809	09/16/20	09/17/20	EPA 901.1	SUB12
<b>Radium 226 Analysis Error</b>	<b>0.75</b>		+/- 2 Sigma	1	P0I2809	09/16/20	09/17/20	EPA 901.1	SUB12
<b>Radium 228 Analysis Error</b>	<b>0.16</b>		+/- 2 Sigma	1	P0I2809	09/16/20	09/17/20	EPA 901.1	SUB12

**TCLP Metals 1311 by EPA / Standard Methods**

Mercury	ND	0.000200	mg/L	1	P0I2404	09/17/20	09/18/20	EPA 7470A	SUB-13
Chromium	ND	0.0500	mg/L	1	P0I2404	09/17/20	09/21/20	EPA 6020A	SUB-13
Arsenic	ND	0.0500	mg/L	1	P0I2404	09/17/20	09/21/20	EPA 6020A	SUB-13
Selenium	ND	0.0500	mg/L	1	P0I2404	09/17/20	09/21/20	EPA 6020A	SUB-13
Silver	ND	0.0500	mg/L	1	P0I2404	09/17/20	09/21/20	EPA 6020A	SUB-13
Cadmium	ND	0.0500	mg/L	1	P0I2404	09/17/20	09/21/20	EPA 6020A	SUB-13
<b>Barium</b>	<b>1.30</b>	0.200	mg/L	1	P0I2404	09/17/20	09/21/20	EPA 6020A	SUB-13
Lead	ND	0.0500	mg/L	1	P0I2404	09/17/20	09/21/20	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**SP-South**  
**0I11002-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**TCLP Volatile Organic Compounds by EPA Method 1311/8260B**

Benzene	ND	100	ug/l	1	P012404	09/17/20	09/19/20	EPA 8260B	SUB-13
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**Physical Parameters by APHA/ASTM/EPA Methods**

Free Liquid	PASS	N/A	1	P012809	09/14/20	09/14/20	EPA 9095
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P011106 - *** DEFAULT PREP ***</b>										
<b>Blank (P011106-BLK1)</b>				Prepared & Analyzed: 09/11/20						
% Moisture	ND	0.1	%							
<b>Blank (P011106-BLK2)</b>				Prepared & Analyzed: 09/11/20						
% Moisture	ND	0.1	%							
<b>Blank (P011106-BLK3)</b>				Prepared & Analyzed: 09/11/20						
% Moisture	ND	0.1	%							
<b>Duplicate (P011106-DUP1)</b>				<b>Source: 0110001-10</b>		Prepared & Analyzed: 09/11/20				
% Moisture	4.0	0.1	%		5.0			22.2	20	
<b>Duplicate (P011106-DUP2)</b>				<b>Source: 0110001-20</b>		Prepared & Analyzed: 09/11/20				
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P011106-DUP3)</b>				<b>Source: 0110001-35</b>		Prepared & Analyzed: 09/11/20				
% Moisture	10.0	0.1	%		11.0			9.52	20	
<b>Duplicate (P011106-DUP4)</b>				<b>Source: 0111001-08</b>		Prepared & Analyzed: 09/11/20				
% Moisture	ND	0.1	%		ND				20	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0I2809 - \*\*\* DEFAULT PREP \*\*\*****Duplicate (P0I2809-DUP1)****Source: 01I1002-01**

Prepared &amp; Analyzed: 09/14/20

Free Liquid

PASS

N/A

PASS

200

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

SUB12 Analysis was subcontracted to ARS Port Allen Louisiana.

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/28/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

**PBIMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP

1400 Rankin Hwy

Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WGR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Fax No:

Sampler Signature: R. L. Gena

e-mail:

sylviareynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

Project Name: Actaria Sealing East

Project #: PP-2073

Project Loc: Loc 6, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
elizabethstuart@deandigs.com

(lab use only)

ORDER #: 0111002

LAB # (lab use only)

FIELD CODE

SP-South Loc

Beginning Depth

Ending Depth

Date Sampled

09/08/20

Time Sampled

2:17

Field Filtered

Total #. of Containers

1

Ice

HNO<sub>3</sub> 250, ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Preservation &amp; # of Containers

Matrix

Analyze For:

Special Instructions:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers intact?

VOCs Free of Headspace?

N

Labels on container(s)?

N

Custody seals on container(s)?

N

Custody seals on cooler(s)?

N

Sample Hand Delivered

Y

by Courier?

N

by Sampler/Client Rep.?

N

Temperature Upon Receipt:

10.1 °C

N

Adjusted:

1.1

N



---

10450 Stancliff Rd. Suite 210  
Houston, TX 77099  
T: +1 281 530 5656  
F: +1 281 530 5887

September 23, 2020

Brent Barron  
Permian Basin Environmental Lab, LP  
10014 SCR 1213  
Midland, TX 79706

Work Order: **HS20090797**

Laboratory Results for: **0111002**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Sep 16, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script, reading "Bernadette Fini".

Generated By: DAYNA.FISHER  
Bernadette A. Fini  
Project Manager

ALS Houston, US

Date: 23-Sep-20

Client: Permian Basin Environmental Lab, LP  
Project: 0I11002  
Work Order: HS20090797

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20090797-01	0I11002-01	Soil		08-Sep-2020 14:17	16-Sep-2020 10:20	<input type="checkbox"/>

**ALS Houston, US**

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0111002  
**Work Order:** HS20090797

**CASE NARRATIVE****Work Order Comments**

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.  
The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

**GCMS Volatiles by Method SW8260****Batch ID: 157481**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**Metals by Method SW1311/6020****Batch ID: 157547**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**Metals by Method SW7470****Batch ID: 157499**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SW7.3.3.2****Batch ID: R368870**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method ASTM D92-12b****Batch ID: R368903**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SW7.3.4.2****Batch ID: R368868**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

**WetChemistry by Method SW9045D****Batch ID: R368775**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.



## ALS Houston, US

Date: 23-Sep-20

Client: Permian Basin Environmental Lab, LP  
 Project: 0I11002  
 Sample ID: 0I11002-01  
 Collection Date: 08-Sep-2020 14:17

## ANALYTICAL REPORT

WorkOrder:HS20090797  
 Lab ID:HS20090797-01  
 Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
<b>TCLP VOLATILES</b>						
	<b>Method:SW8260</b>		Leache:SW1311 / 18-Sep-2020	Prep:SW1311 / 18-Sep-2020	Analyst: PC	
Benzene	ND		0.10	mg/L	20	19-Sep-2020 02:48
Surr: 1,2-Dichloroethane-d4	101		70-126	%REC	20	19-Sep-2020 02:48
Surr: 4-Bromofluorobenzene	94.4		82-124	%REC	20	19-Sep-2020 02:48
Surr: Dibromofluoromethane	101		77-123	%REC	20	19-Sep-2020 02:48
Surr: Toluene-d8	99.6		82-127	%REC	20	19-Sep-2020 02:48
<b>TCLP METALS BY SW6020A</b>						
	<b>Method:SW1311/6020</b>		Leache:SW1311 / 18-Sep-2020	Prep:SW3010A / 19-Sep-2020	Analyst: JHD	
Arsenic	ND		0.0500	mg/L	1	21-Sep-2020 21:28
Barium	1.30		0.200	mg/L	1	21-Sep-2020 21:28
Cadmium	ND		0.0500	mg/L	1	21-Sep-2020 21:28
Chromium	ND		0.0500	mg/L	1	21-Sep-2020 21:28
Lead	ND		0.0500	mg/L	1	21-Sep-2020 21:28
Selenium	ND		0.0500	mg/L	1	21-Sep-2020 21:28
Silver	ND		0.0500	mg/L	1	21-Sep-2020 21:28
<b>TCLP MERCURY BY SW7470A</b>						
	<b>Method:SW7470</b>		Leache:SW1311 / 18-Sep-2020	Prep:SW7470 / 18-Sep-2020	Analyst: JC	
Mercury	ND		0.000200	mg/L	1	18-Sep-2020 17:16
<b>FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B</b>						
	<b>Method:ASTM D92-12b</b>				Analyst: TH	
Flash Point	> 212	n	50.0	°F	1	19-Sep-2020 09:00
<b>REACTIVE CYANIDE</b>						
	<b>Method:SW7.3.3.2</b>			Prep:SW7.3.3.2	Analyst: MZD	
Reactive Cyanide	ND	n	100	mg/Kg	1	18-Sep-2020 13:10
<b>REACTIVE SULFIDE</b>						
	<b>Method:SW7.3.4.2</b>				Analyst: MZD	
Reactive Sulfide	ND	n	100	mg/Kg	1	18-Sep-2020 12:22
<b>PH SOIL BY SW9045D</b>						
	<b>Method:SW9045D</b>				Analyst: JAC	
pH	7.31	H	0.100	pH Units	1	17-Sep-2020 13:08
Temp Deg C @pH	22.3	H	0	°C	1	17-Sep-2020 13:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 23-Sep-20

## Weight / Prep Log

Client: Permian Basin Environmental Lab, LP

Project: 0111002

WorkOrder: HS20090797

<b>Batch ID:</b> 157478	<b>Start Date:</b> 17 Sep 2020 17:00	<b>End Date:</b> 18 Sep 2020 10:00
<b>Method:</b> TCLP MERCURY EXTRACTION BY SW1311	<b>Prep Code:</b> 1311LHG EXT	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20090797-01		100 (grams)	2000 (mL)	20

<b>Batch ID:</b> 157479	<b>Start Date:</b> 17 Sep 2020 17:00	<b>End Date:</b> 18 Sep 2020 10:00
<b>Method:</b> TCLP METALS EXTRACTION BY SW1311	<b>Prep Code:</b> 1311LM EXT	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20090797-01		100 (grams)	2000 (mL)	20

<b>Batch ID:</b> 157481	<b>Start Date:</b> 17 Sep 2020 17:00	<b>End Date:</b> 18 Sep 2020 10:00
<b>Method:</b> TCLP ZHE (VOL EXTRACTION)	<b>Prep Code:</b> 1311ZHE	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20090797-01		25 (g)	500 (mL)	20

<b>Batch ID:</b> 157499	<b>Start Date:</b> 18 Sep 2020 08:30	<b>End Date:</b> 18 Sep 2020 10:30
<b>Method:</b> MERCURY TCLP PREP BY SW7470A	<b>Prep Code:</b> 1311_HGPR	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20090797-01		10 (mL)	10 (mL)	1

<b>Batch ID:</b> 157547	<b>Start Date:</b> 19 Sep 2020 12:00	<b>End Date:</b> 19 Sep 2020 16:00
<b>Method:</b> TCLP LEACHATE DIGESTION BY SW3010A	<b>Prep Code:</b> 3010A_TCLP	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20090797-01		1 (mL)	10 (mL)	10

ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
<b>Batch ID:</b> 157481 ( 0 )		<b>Test Name :</b> TCLP VOLATILES			<b>Matrix:</b> Soil	
HS20090797-01	0I11002-01	08 Sep 2020 14:17	18 Sep 2020 10:00	18 Sep 2020 11:29	19 Sep 2020 02:48	20
<b>Batch ID:</b> 157499 ( 0 )		<b>Test Name :</b> TCLP MERCURY BY SW7470A			<b>Matrix:</b> Soil	
HS20090797-01	0I11002-01	08 Sep 2020 14:17	18 Sep 2020 10:00	18 Sep 2020 08:30	18 Sep 2020 17:16	1
<b>Batch ID:</b> 157547 ( 0 )		<b>Test Name :</b> TCLP METALS BY SW6020A			<b>Matrix:</b> Soil	
HS20090797-01	0I11002-01	08 Sep 2020 14:17	18 Sep 2020 10:00	19 Sep 2020 16:00	21 Sep 2020 21:28	1
<b>Batch ID:</b> R368775 ( 0 )		<b>Test Name :</b> PH SOIL BY SW9045D			<b>Matrix:</b> Soil	
HS20090797-01	0I11002-01	08 Sep 2020 14:17			17 Sep 2020 13:08	1
<b>Batch ID:</b> R368868 ( 0 )		<b>Test Name :</b> REACTIVE SULFIDE			<b>Matrix:</b> Soil	
HS20090797-01	0I11002-01	08 Sep 2020 14:17			18 Sep 2020 12:22	1
<b>Batch ID:</b> R368870 ( 0 )		<b>Test Name :</b> REACTIVE CYANIDE			<b>Matrix:</b> Soil	
HS20090797-01	0I11002-01	08 Sep 2020 14:17			18 Sep 2020 13:10	1
<b>Batch ID:</b> R368903 ( 0 )		<b>Test Name :</b> FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B			<b>Matrix:</b> Soil	
HS20090797-01	0I11002-01	08 Sep 2020 14:17			19 Sep 2020 09:00	1

## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: 157499 ( 0 )		Instrument: HG03		Method: TCLP MERCURY BY SW7470A					
<b>MBLK</b>	Sample ID: <b>MBLKT2-157499</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Sep-2020 16:46</b>					
Client ID:	Run ID: <b>HG03_368891</b>	SeqNo: <b>5745521</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>MBLK</b>	Sample ID: <b>MBLKT3-157499</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Sep-2020 16:47</b>					
Client ID:	Run ID: <b>HG03_368891</b>	SeqNo: <b>5745522</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>MBLK</b>	Sample ID: <b>MBLKT1-157499</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Sep-2020 16:44</b>					
Client ID:	Run ID: <b>HG03_368891</b>	SeqNo: <b>5745520</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>MBLK</b>	Sample ID: <b>MBLK-157499</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Sep-2020 16:42</b>					
Client ID:	Run ID: <b>HG03_368891</b>	SeqNo: <b>5745519</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	ND	0.000200							
<b>LCS</b>	Sample ID: <b>LCS-157499</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Sep-2020 16:49</b>					
Client ID:	Run ID: <b>HG03_368891</b>	SeqNo: <b>5745523</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00469	0.000200	0.005	0	93.8	80 - 120			
<b>MS</b>	Sample ID: <b>HS20090730-19MS</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Sep-2020 17:04</b>					
Client ID:	Run ID: <b>HG03_368891</b>	SeqNo: <b>5745534</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Mercury	0.00487	0.000200	0.005	-0.000003	97.5	75 - 125			

## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: 157499 ( 0 )		Instrument: HG03		Method: TCLP MERCURY BY SW7470A						
<b>MSD</b>	Sample ID: <b>HS20090730-19MSD</b>	Units: <b>mg/L</b>		Analysis Date: <b>18-Sep-2020 17:05</b>						
Client ID:	Run ID: <b>HG03_368891</b>		SeqNo: <b>5745535</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0046	0.000200	0.005	-0.000003	92.1	75 - 125	0.00487	5.7	20	

The following samples were analyzed in this batch: HS20090797-01

## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: 157547 ( 0 )		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A					
<b>MBLK</b>	Sample ID: <b>MBLKT2-157547</b>	Units: <b>mg/L</b>		Analysis Date: <b>21-Sep-2020 21:01</b>					
Client ID:	Run ID: <b>ICPMS06_368935</b>	SeqNo: <b>5747735</b>		PrepDate: <b>19-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

<b>MBLK</b>	Sample ID: <b>MBLKT1-157547</b>	Units: <b>mg/L</b>		Analysis Date: <b>21-Sep-2020 20:59</b>					
Client ID:	Run ID: <b>ICPMS06_368935</b>	SeqNo: <b>5747734</b>		PrepDate: <b>19-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.0500
Barium	ND	0.200
Cadmium	ND	0.0500
Chromium	ND	0.0500
Lead	ND	0.0500
Selenium	ND	0.0500
Silver	ND	0.0500

<b>MBLK</b>	Sample ID: <b>MBLK-157547</b>	Units: <b>mg/L</b>		Analysis Date: <b>21-Sep-2020 20:57</b>					
Client ID:	Run ID: <b>ICPMS06_368935</b>	SeqNo: <b>5747733</b>		PrepDate: <b>19-Sep-2020</b>		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic	ND	0.00500
Barium	ND	0.0200
Cadmium	ND	0.00500
Chromium	ND	0.00500
Lead	ND	0.00500
Selenium	ND	0.00500
Silver	ND	0.00500

## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: 157547 ( 0 )		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A					
<b>LCS</b>		Sample ID: LCS-157547		Units: mg/L		Analysis Date: 21-Sep-2020 21:03			
Client ID:		Run ID: ICPMS06_368935		SeqNo: 5747736		PrepDate: 19-Sep-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.0472	0.00500	0.05	0	94.4	80 - 120			
Barium	0.04839	0.0200	0.05	0	96.8	80 - 120			
Cadmium	0.0484	0.00500	0.05	0	96.8	80 - 120			
Chromium	0.04484	0.00500	0.05	0	89.7	80 - 120			
Lead	0.04752	0.00500	0.05	0	95.0	80 - 120			
Selenium	0.04948	0.00500	0.05	0	99.0	80 - 120			
Silver	0.04786	0.00500	0.05	0	95.7	80 - 120			

<b>MS</b>		Sample ID: HS20090688-02MS		Units: mg/L		Analysis Date: 21-Sep-2020 21:09			
Client ID:		Run ID: ICPMS06_368935		SeqNo: 5747739		PrepDate: 19-Sep-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.4527	0.0500	0.5	0.00432	89.7	80 - 120			
Barium	0.9951	0.200	0.5	0.5871	81.6	80 - 120			
Cadmium	0.4359	0.0500	0.5	0	87.2	80 - 120			
Chromium	0.4126	0.0500	0.5	0	82.5	80 - 120			
Lead	0.4425	0.0500	0.5	0.00833	86.8	80 - 120			
Selenium	0.4614	0.0500	0.5	0	92.3	80 - 120			
Silver	0.4193	0.0500	0.5	0	83.9	80 - 120			

<b>MSD</b>		Sample ID: HS20090688-02MSD		Units: mg/L		Analysis Date: 21-Sep-2020 21:11			
Client ID:		Run ID: ICPMS06_368935		SeqNo: 5747740		PrepDate: 19-Sep-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.4901	0.0500	0.5	0.00432	97.2	80 - 120	0.4527	7.93	20
Barium	1.078	0.200	0.5	0.5871	98.2	80 - 120	0.9951	8.01	20
Cadmium	0.4775	0.0500	0.5	0	95.5	80 - 120	0.4359	9.11	20
Chromium	0.4461	0.0500	0.5	0	89.2	80 - 120	0.4126	7.8	20
Lead	0.4906	0.0500	0.5	0.00833	96.5	80 - 120	0.4425	10.3	20
Selenium	0.5198	0.0500	0.5	0	104	80 - 120	0.4614	11.9	20
Silver	0.4565	0.0500	0.5	0	91.3	80 - 120	0.4193	8.49	20

## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: 157547 ( 0 )		Instrument: ICPMS06		Method: TCLP METALS BY SW6020A					
<b>PDS</b>		Sample ID: HS20090688-02PDS		Units: mg/L		Analysis Date: 21-Sep-2020 21:13			
Client ID:		Run ID: ICPMS06_368935		SeqNo: 5747741		PrepDate: 19-Sep-2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	1.057	0.0500	1	0.00432	105	75 - 125			
Barium	1.574	0.200	1	0.5871	98.7	75 - 125			
Cadmium	1.022	0.0500	1	0.00015	102	75 - 125			
Chromium	0.952	0.0500	1	0.00127	95.1	75 - 125			
Lead	1.026	0.0500	1	0.00833	102	75 - 125			
Selenium	1.102	0.0500	1	0.00084	110	75 - 125			
Silver	0.9794	0.0500	1	-0.00003	97.9	75 - 125			

<b>SD</b>		Sample ID: HS20090688-02SD		Units: mg/L		Analysis Date: 21-Sep-2020 21:07			
Client ID:		Run ID: ICPMS06_368935		SeqNo: 5747738		PrepDate: 19-Sep-2020		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic	ND	0.250					0.00432	0	10
Barium	0.5795	1.00					0.5871	0	10 J
Cadmium	ND	0.250					0.00015	0	10
Chromium	ND	0.250					0.00127	0	10
Lead	ND	0.250					0.00833	0	10
Selenium	ND	0.250					0.00084	0	10
Silver	ND	0.250					-0.00003	0	10

The following samples were analyzed in this batch: HS20090797-01



## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: 157481 ( 0 )		Instrument: VOA9		Method: TCLP VOLATILES					
<b>MBLK</b>	Sample ID: <b>MBLK-157481</b>	Units: <b>ug/L</b>		Analysis Date: <b>18-Sep-2020 21:56</b>					
Client ID:	Run ID: <b>VOA9_368960</b>	SeqNo: <b>5746960</b>		PrepDate: <b>18-Sep-2020</b>		DF: <b>20</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	100							
Surr: 1,2-Dichloroethane-d4	969.9	100	1000	0	97.0	70 - 130			
Surr: 4-Bromofluorobenzene	945.7	100	1000	0	94.6	82 - 115			
Surr: Dibromofluoromethane	997.1	100	1000	0	99.7	73 - 126			
Surr: Toluene-d8	993.1	100	1000	0	99.3	81 - 120			

<b>LCS</b>	Sample ID: <b>VLCSW-157481</b>	Units: <b>ug/L</b>		Analysis Date: <b>18-Sep-2020 16:40</b>					
Client ID:	Run ID: <b>VOA9_368960</b>	SeqNo: <b>5746956</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	17.68	5.0	20	0	88.4	74 - 120			
Surr: 1,2-Dichloroethane-d4	47.45	5.0	50	0	94.9	70 - 130			
Surr: 4-Bromofluorobenzene	50.29	5.0	50	0	101	82 - 115			
Surr: Dibromofluoromethane	49.1	5.0	50	0	98.2	73 - 126			
Surr: Toluene-d8	50.38	5.0	50	0	101	81 - 120			

<b>LCS</b>	Sample ID: <b>VLCSW-157481</b>	Units: <b>ug/L</b>		Analysis Date: <b>21-Sep-2020 11:51</b>					
Client ID:	Run ID: <b>VOA4_368978</b>	SeqNo: <b>5747381</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.28	5.0	20	0	96.4	74 - 120			
Surr: 1,2-Dichloroethane-d4	46.67	5.0	50	0	93.3	70 - 130			
Surr: 4-Bromofluorobenzene	51.35	5.0	50	0	103	82 - 115			
Surr: Dibromofluoromethane	47.78	5.0	50	0	95.6	73 - 126			
Surr: Toluene-d8	50.07	5.0	50	0	100	81 - 120			

## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: 157481 ( 0 )		Instrument: VOA9		Method: TCLP VOLATILES					
<b>MS</b>	Sample ID: HS20090879-01MS	Units: ug/L		Analysis Date: 21-Sep-2020 13:57					
Client ID:	Run ID: VOA4_368978	SeqNo: 5747384		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	52.08	5.0	20	33.92	90.8	70 - 127			
Surr: 1,2-Dichloroethane-d4	49	5.0	50	0	98.0	70 - 126			
Surr: 4-Bromofluorobenzene	50.03	5.0	50	0	100	82 - 124			
Surr: Dibromofluoromethane	49.39	5.0	50	0	98.8	77 - 123			
Surr: Toluene-d8	48.96	5.0	50	0	97.9	82 - 127			

<b>MS</b>	Sample ID: HS20090820-06MS	Units: ug/L		Analysis Date: 18-Sep-2020 19:30					
Client ID:	Run ID: VOA9_368960	SeqNo: 5746959		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	10.384	5.0	20	0	95.1	70 - 127			
Surr: 1,2-Dichloroethane-d4	47.29	5.0	50	0	94.6	70 - 126			
Surr: 4-Bromofluorobenzene	49.65	5.0	50	0	99.3	82 - 124			
Surr: Dibromofluoromethane	48.11	5.0	50	0	96.2	77 - 123			
Surr: Toluene-d8	49.52	5.0	50	0	99.0	82 - 127			

The following samples were analyzed in this batch: HS20090797-01

## ALS Houston, US

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0I11002  
**WorkOrder:** HS20090797

## QC BATCH REPORT

Batch ID: R368775 ( 0 )		Instrument: WetChem_HS		Method: PH SOIL BY SW9045D					
<b>DUP</b>	Sample ID: HS20090688-02DUP	Units: pH Units		Analysis Date: 17-Sep-2020 13:08					
Client ID:	Run ID: WetChem_HS_368775		SeqNo: 5743004		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
pH	8.32	0.100					8.4	0.957	10
Temp Deg C @pH	22.4	0					22.1	1.35	10
The following samples were analyzed in this batch: HS20090797-01									

## ALS Houston, US

Date: 23-Sep-20

Client: Permian Basin Environmental Lab, LP

Project: 0I11002

WorkOrder: HS20090797

## QC BATCH REPORT

Batch ID: R368868 ( 0 )		Instrument: WetChem_HS		Method: REACTIVE SULFIDE					
<b>MBLK</b>	Sample ID: <b>MBLK-368868</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>18-Sep-2020 12:22</b>					
Client ID:	Run ID: <b>WetChem_HS_368868</b>		SeqNo: <b>5744877</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	ND	100							
<b>LCS</b>	Sample ID: <b>LCS-368868</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>18-Sep-2020 12:22</b>					
Client ID:	Run ID: <b>WetChem_HS_368868</b>		SeqNo: <b>5744878</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	68	10.0	100	0	68.0	20 - 120			
<b>MS</b>	Sample ID: <b>HS20090688-02MS</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>18-Sep-2020 12:22</b>					
Client ID:	Run ID: <b>WetChem_HS_368868</b>		SeqNo: <b>5744879</b>		PrepDate:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Sulfide	72	10.0	100	0	72.0	20 - 120			
The following samples were analyzed in this batch: HS20090797-01									

## ALS Houston, US

Date: 23-Sep-20

Client: Permian Basin Environmental Lab, LP

Project: 0I11002

WorkOrder: HS20090797

## QC BATCH REPORT

Batch ID: R368870 ( 0 )		Instrument: UV-2450		Method: REACTIVE CYANIDE					
<b>MBLK</b>	Sample ID: <b>MBLK-368870</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>18-Sep-2020 13:10</b>					
Client ID:	Run ID: <b>UV-2450_368870</b>	SeqNo: <b>5744897</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	ND	100							
<b>LCS</b>	Sample ID: <b>LCS-368870</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>18-Sep-2020 13:10</b>					
Client ID:	Run ID: <b>UV-2450_368870</b>	SeqNo: <b>5744898</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.64	10.0	10	0	6.40	5 - 100			J
<b>MS</b>	Sample ID: <b>HS20090688-02MS</b>	Units: <b>mg/Kg</b>		Analysis Date: <b>18-Sep-2020 13:10</b>					
Client ID:	Run ID: <b>UV-2450_368870</b>	SeqNo: <b>5744901</b>		PrepDate:		DF: <b>1</b>			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Reactive Cyanide	0.64	10.0	10	0	6.40	5 - 100			J
The following samples were analyzed in this batch: HS20090797-01									

ALS Houston, US

Date: 23-Sep-20

Client: Permian Basin Environmental Lab, LP

Project: 0I11002

WorkOrder: HS20090797

## QC BATCH REPORT

Batch ID: R368903 ( 0 )		Instrument: WetChem_HS		Method: FLASH POINT BY CLEVELAND OPEN CUP ASTM D92-12B					
DUP	Sample ID: HS20090688-02DUP	Units: °F		Analysis Date: 19-Sep-2020 09:00					
Client ID:	Run ID: WetChem_HS_368903		SeqNo: 5745912		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Flash Point	> 212	50.0					0	0	30

The following samples were analyzed in this batch: HS20090797-01

**ALS Houston, US**

Date: 23-Sep-20

**Client:** Permian Basin Environmental Lab, LP  
**Project:** 0111002  
**WorkOrder:** HS20090797

**QUALIFIERS,  
ACRONYMS, UNITS**

<b>Qualifier</b>	<b>Description</b>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

<b>Acronym</b>	<b>Description</b>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<b>Unit Reported</b>	<b>Description</b>
Date	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

ALS Houston, US

Date: 23-Sep-20

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**CERTIFICATIONS,ACCREDITATIONS & LICENSES**

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Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021



ALS Houston, US

Date: 23-Sep-20

## Sample Receipt Checklist

Work Order ID: HS20090797

Date/Time Received: 16-Sep-2020 10:20

Client Name: Permian Basin Lab

Received by: Jared R. Makan

Completed By: <u>/S/ Jared R. Makan</u>	17-Sep-2020 08:30	Reviewed by: <u>/S/ Corey Grandits</u>	17-Sep-2020 12:26
eSignature	Date/Time	eSignature	Date/Time

Matrices: SoilCarrier name: FedEx Standard Overnight

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	1 Page(s)
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samplers name present on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

1.8°C/1.8°C UC/C IR31

Cooler(s)/Kit(s):

Red

Date/Time sample(s) sent to storage:

09/17/2020 08:30

Water - VOA vials have zero headspace?

Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐ No ☐ N/A ☒

pH adjusted?

Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

Phone: 432-686-7235  
PBELAB SUB COC V2

Project Name: SUBCONTRACT

**Project #:****Project Loc:**

**PO #:**


Fax No:

Report Format: X Standard

Sampler Signature: N/A

e-mail: [brentbarron@pbelab.com](mailto:brentbarron@pbelab.com)

TRRP

(lab use only)																				
ORDER #:																				
LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE	HNO <sub>3</sub> 20% v/v	HCl 2x 40mL VOA	H <sub>2</sub> SO <sub>4</sub> 1 liter 500 250 poly	NaOH /ZNAC 250 Poly 1	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Nere Poly 500mL 250mL Glass Amber 1000 500 mL	NaOH/ZnAc	DW-Drinking Water SL-Sludge	GW - Groundwater S-Soil/Solid	NP-Non-Potable Specify Other	MATRIX	
	FIELD CODE																			
	0111002-01			9/8/2020	2:17 PM	N	1	X												
<b>HS20090797</b> Permian Basin Environmental Lab, LP 0111002 																				
Special Instructions:																				
Relinquished by:		Date	Time			Date	Time													
Brent Barron		9/15/20	16:00																	
Relinquished by:		Date	Time	Received by:		Date	Time													
		9/16/20	10:30	J. MASON																
Relinquished by:		Date	Time	Received by:		Date	Time													

**Laboratory Comments:**

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Labels on container(s) Y N

Custody seals on container(s) Y N

Custody seals on cooler(s) Y N

Sample Hand Delivered Y N

by Sampler/Client Rep.? Y N

by Courier? UPS DHL FedEx LC

Temperature Upon Receipt:  
 Received: 18 °C  
 Adjusted: °C Factor

Coder - Kesh  
10231

FedEx  
TRK# 8147 6085 4027  
0200  
WED - 16 SEP AA  
STANDARD OVERNIGHT  
AB SGRA  
77099  
TX-US  
IAH



FID: 673024 15Sep2020 HAFA 560G6/1545/05A2

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Jeff Kindley  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Lea Co., New Mexico

Lab Order Number: 0I11004



NELAP/TCEQ # T104704516-17-8

Report Date: 09/21/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-South	0I11004-01	Soil	09/08/20 14:17	09-11-2020 10:02
SP-North	0I11004-02	Soil	09/08/20 14:13	09-11-2020 10:02

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**SP-South**  
**0I11004-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0148</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.0433</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0261</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0125</b>	0.00202	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00227</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		70.1 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		90.8 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.05</b>	1.01	mg/kg dry	1	P0I1608	09/16/20	09/16/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/14/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>708</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/14/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>377</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P0I1103	09/11/20	09/14/20	TPH 8015M	
Surrogate: o-Terphenyl		149 %	70-130		P0I1103	09/11/20	09/14/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1080</b>	25.3	mg/kg dry	1	[CALC]	09/11/20	09/14/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**SP-North**  
**0I11004-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.0295</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Toluene</b>	<b>0.0173</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00230</b>	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0I1105	09/11/20	09/12/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		72.3 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		90.3 %	75-125		P0I1105	09/11/20	09/12/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.15</b>	1.01	mg/kg dry	1	P0I1608	09/16/20	09/16/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0I1106	09/11/20	09/11/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>149</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>60.9</b>	25.3	mg/kg dry	1	P0I1103	09/11/20	09/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	
Surrogate: o-Terphenyl		136 %	70-130		P0I1103	09/11/20	09/11/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>210</b>	25.3	mg/kg dry	1	[CALC]	09/11/20	09/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011105 - General Preparation (GC)****Blank (P011105-BLK1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.0904		"	0.120		75.4	75-125			

**LCS (P011105-BS1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.0953	0.00100	"	0.100		95.3	70-130			
Ethylbenzene	0.0993	0.00100	"	0.100		99.3	70-130			
Xylene (p/m)	0.185	0.00200	"	0.200		92.6	70-130			
Xylene (o)	0.101	0.00100	"	0.100		101	70-130			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.0930		"	0.120		77.5	75-125			

**LCS Dup (P011105-BS1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.0905	0.00100	mg/kg wet	0.100		90.5	70-130	12.4	20	
Toluene	0.0838	0.00100	"	0.100		83.8	70-130	12.8	20	
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130	8.24	20	
Xylene (p/m)	0.163	0.00200	"	0.200		81.3	70-130	13.0	20	
Xylene (o)	0.0881	0.00100	"	0.100		88.1	70-130	13.6	20	
Surrogate: 1,4-Difluorobenzene	0.104		"	0.120		86.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0899		"	0.120		74.9	75-125			S-GC

**Calibration Check (P011105-CCV1)**

Prepared &amp; Analyzed: 09/11/20

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	80-120			
Toluene	0.0910	0.00100	"	0.100		91.0	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.171	0.00200	"	0.200		85.4	80-120			
Xylene (o)	0.0952	0.00100	"	0.100		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0888		"	0.120		74.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.7	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011105 - General Preparation (GC)****Calibration Check (P011105-CCV2)**

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.0923	0.00100	mg/kg wet	0.100		92.3	80-120			
Toluene	0.0896	0.00100	"	0.100		89.6	80-120			
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.0	80-120			
Xylene (o)	0.0952	0.00100	"	0.100		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0928		"	0.120		77.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.9	75-125			

**Calibration Check (P011105-CCV3)**

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.0957	0.00100	mg/kg wet	0.100		95.7	80-120			
Toluene	0.0861	0.00100	"	0.100		86.1	80-120			
Ethylbenzene	0.0930	0.00100	"	0.100		93.0	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	80-120			
Xylene (o)	0.0923	0.00100	"	0.100		92.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0922		"	0.120		76.8	75-125			

**Matrix Spike (P011105-MS1)**

Source: 0111001-01

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.105	0.00100	mg/kg dry	0.100	0.0450	60.0	80-120			QM-07
Toluene	0.0848	0.00100	"	0.100	0.0360	48.9	80-120			QM-07
Ethylbenzene	0.0661	0.00100	"	0.100	0.00854	57.5	80-120			QM-07
Xylene (p/m)	0.0939	0.00200	"	0.200	0.00331	45.3	80-120			QM-07
Xylene (o)	0.0441	0.00100	"	0.100	0.000820	43.3	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0913		"	0.120		76.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.1	75-125			

**Matrix Spike Dup (P011105-MSD1)**

Source: 0111001-01

Prepared: 09/11/20 Analyzed: 09/12/20

Benzene	0.101	0.00100	mg/kg dry	0.100	0.0450	55.6	80-120	7.63	20	QM-07
Toluene	0.0834	0.00100	"	0.100	0.0360	47.5	80-120	2.93	20	QM-07
Ethylbenzene	0.0658	0.00100	"	0.100	0.00854	57.3	80-120	0.488	20	QM-07
Xylene (p/m)	0.0940	0.00200	"	0.200	0.00331	45.3	80-120	0.0552	20	QM-07
Xylene (o)	0.0442	0.00100	"	0.100	0.000820	43.4	80-120	0.254	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0898		"	0.120		74.9	75-125			S-GC

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P011106 - \*\*\* DEFAULT PREP \*\*\*****Blank (P011106-BLK1)**

Prepared &amp; Analyzed: 09/11/20

% Moisture	ND	0.1	%
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**Blank (P011106-BLK2)**

Prepared &amp; Analyzed: 09/11/20

% Moisture	ND	0.1	%
------------	----	-----	---

**Blank (P011106-BLK3)**

Prepared &amp; Analyzed: 09/11/20

% Moisture	ND	0.1	%
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**Duplicate (P011106-DUP1)****Source: 0110001-10**

Prepared &amp; Analyzed: 09/11/20

% Moisture	4.0	0.1	%	5.0	22.2	20
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**Duplicate (P011106-DUP2)****Source: 0110001-20**

Prepared &amp; Analyzed: 09/11/20

% Moisture	4.0	0.1	%	4.0	0.00	20
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**Duplicate (P011106-DUP3)****Source: 0110001-35**

Prepared &amp; Analyzed: 09/11/20

% Moisture	10.0	0.1	%	11.0	9.52	20
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**Duplicate (P011106-DUP4)****Source: 0111001-08**

Prepared &amp; Analyzed: 09/11/20

% Moisture	ND	0.1	%	ND		20
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**Batch P011608 - \*\*\* DEFAULT PREP \*\*\*****Blank (P011608-BLK1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	ND	1.00	mg/kg wet
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**LCS (P011608-BS1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	415	1.00	mg/kg wet	400	104	80-120
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I1608 - \*\*\* DEFAULT PREP \*\*\*****LCS Dup (P0I1608-BSD1)**

Prepared: 09/16/20 Analyzed: 09/18/20

Chloride	416	1.00	mg/kg wet	400		104	80-120	0.308	20	
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**Calibration Blank (P0I1608-CCB1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	0.00		mg/kg wet							
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**Calibration Blank (P0I1608-CCB2)**

Prepared &amp; Analyzed: 09/16/20

Chloride	0.00		mg/kg wet							
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**Calibration Check (P0I1608-CCV1)**

Prepared &amp; Analyzed: 09/16/20

Chloride	18.6		mg/kg	20.0		93.2	0-200			
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**Calibration Check (P0I1608-CCV2)**

Prepared &amp; Analyzed: 09/16/20

Chloride	19.1		mg/kg	20.0		95.7	0-200			
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**Calibration Check (P0I1608-CCV3)**

Prepared: 09/16/20 Analyzed: 09/17/20

Chloride	18.9		mg/kg	20.0		94.3	0-200			
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**Matrix Spike (P0I1608-MS1)**

Source: 0I16001-01

Prepared &amp; Analyzed: 09/16/20

Chloride	511	1.05	mg/kg dry	526	8.48	95.5	80-120			
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**Matrix Spike (P0I1608-MS2)**

Source: 0I11001-06

Prepared &amp; Analyzed: 09/16/20

Chloride	477	1.01	mg/kg dry	505	0.586	94.3	80-120			
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**Matrix Spike Dup (P0I1608-MSD1)**

Source: 0I16001-01

Prepared &amp; Analyzed: 09/16/20

Chloride	508	1.05	mg/kg dry	526	8.48	95.0	80-120	0.603	20	
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**Matrix Spike Dup (P0I1608-MSD2)**

Source: 0I11001-06

Prepared &amp; Analyzed: 09/16/20

Chloride	477	1.01	mg/kg dry	505	0.586	94.3	80-120	0.0509	20	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011103 - TX 1005****Blank (P011103-BLK1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			

**LCS (P011103-BS1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	64.0		"	50.0		128	70-130			

**LCS Dup (P011103-BSD1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	0.301	20	
>C12-C28	1140	25.0	"	1000		114	75-125	0.346	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	64.4		"	50.0		129	70-130			

**Calibration Check (P011103-CCV1)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	532	25.0	mg/kg wet	500		106	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	59.5		"	50.0		119	70-130			

**Calibration Check (P011103-CCV2)**

Prepared &amp; Analyzed: 09/11/20

C6-C12	497	25.0	mg/kg wet	500		99.4	85-115			
>C12-C28	568	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	58.9		"	50.0		118	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P011103 - TX 1005**

<b>Matrix Spike (P011103-MS1)</b>		<b>Source: 0111003-04</b>		Prepared & Analyzed: 09/11/20						
C6-C12	1170	27.8	mg/kg dry	1110	14.5	104	75-125			
>C12-C28	1330	27.8	"	1110	73.8	113	75-125			
Surrogate: 1-Chlorooctane	122		"	111		110	70-130			
Surrogate: o-Terphenyl	74.5		"	55.6		134	70-130			S-GC
<b>Matrix Spike Dup (P011103-MSD1)</b>		<b>Source: 0111003-04</b>		Prepared & Analyzed: 09/11/20						
C6-C12	1090	27.8	mg/kg dry	1110	14.5	96.3	75-125	7.63	20	
>C12-C28	1290	27.8	"	1110	73.8	110	75-125	3.08	20	
Surrogate: 1-Chlorooctane	141		"	111		127	70-130			
Surrogate: o-Terphenyl	68.0		"	55.6		122	70-130			

Permian Basin Environmental Lab, L.P.

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12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Jeff Kindley

Fax:

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/21/2020

Brent Barron, Laboratory Director/Technical Director

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Permian Basin Environmental Lab, L.P.

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12600 W County Rd 91  
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Fax:

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**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0I23010



NELAP/TCEQ # T104704516-17-8

Report Date: 10/05/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-22 @ 3'	0I23010-01	Soil	09/18/20 09:00	09-23-2020 11:45
BH-23 @ 3'	0I23010-02	Soil	09/18/20 09:05	09-23-2020 11:45
BH-24 @ 3'	0I23010-03	Soil	09/18/20 09:10	09-23-2020 11:45
BH-25 @ 3'	0I23010-04	Soil	09/18/20 09:15	09-23-2020 11:45
BH-26 @ 3'	0I23010-05	Soil	09/18/20 09:20	09-23-2020 11:45
BH-27 @ 3'	0I23010-06	Soil	09/18/20 09:25	09-23-2020 11:45
BH-28 @ 3'	0I23010-07	Soil	09/18/20 09:30	09-23-2020 11:45
BH-29 @ 3'	0I23010-08	Soil	09/18/20 09:35	09-23-2020 11:45
BH-30 @ 3'	0I23010-09	Soil	09/18/20 09:40	09-23-2020 11:45
BH-31 @ 3'	0I23010-10	Soil	09/18/20 09:45	09-23-2020 11:45
BH-32 @ 3'	0I23010-11	Soil	09/18/20 09:50	09-23-2020 11:45
BH-33 @ 3'	0I23010-12	Soil	09/18/20 09:55	09-23-2020 11:45
BH-34 @ 3'	0I23010-13	Soil	09/18/20 10:00	09-23-2020 11:45
BH-35 @ 3'	0I23010-14	Soil	09/18/20 10:05	09-23-2020 11:45
BH-36 @ 3'	0I23010-15	Soil	09/18/20 10:10	09-23-2020 11:45
BH-37 @ 3'	0I23010-16	Soil	09/18/20 10:15	09-23-2020 11:45
BH-38 @ 3'	0I23010-17	Soil	09/18/20 10:20	09-23-2020 11:45
BH-39 @ 3'	0I23010-18	Soil	09/18/20 10:25	09-23-2020 11:45
BH-40 @ 3'	0I23010-19	Soil	09/18/20 10:30	09-23-2020 11:45
BH-41 @ 3'	0I23010-20	Soil	09/18/20 10:35	09-23-2020 11:45
BH-42 @ 3'	0I23010-21	Soil	09/18/20 10:40	09-23-2020 11:45
BH-43 @ 3'	0I23010-22	Soil	09/18/20 10:45	09-23-2020 11:45
BH-44 @ 3'	0I23010-23	Soil	09/18/20 10:50	09-23-2020 11:45
BH-45 @ 3'	0I23010-24	Soil	09/18/20 10:55	09-23-2020 11:45
BH-46 @ 3'	0I23010-25	Soil	09/18/20 11:00	09-23-2020 11:45
BH-47 @ 3'	0I23010-26	Soil	09/18/20 11:05	09-23-2020 11:45
BH-48 @ 3'	0I23010-27	Soil	09/18/20 11:10	09-23-2020 11:45
BH-49 @ 3'	0I23010-28	Soil	09/18/20 11:15	09-23-2020 11:45
BH-50 @ 3'	0I23010-29	Soil	09/18/20 11:20	09-23-2020 11:45
BH-51 @ 3'	0I23010-30	Soil	09/18/20 11:25	09-23-2020 11:45
BH-52 @ 3'	0I23010-31	Soil	09/18/20 11:30	09-23-2020 11:45
BH-53 @ 3'	0I23010-32	Soil	09/18/20 11:35	09-23-2020 11:45
BH-54 @ 3'	0I23010-33	Soil	09/18/20 11:40	09-23-2020 11:45
BH-55 @ 3'	0I23010-34	Soil	09/18/20 11:45	09-23-2020 11:45

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-56 @ 3'	0I23010-35	Soil	09/18/20 11:50	09-23-2020 11:45
BH-57 @ 3'	0I23010-36	Soil	09/22/20 08:50	09-23-2020 11:45
BH-58 @ 1'	0I23010-37	Soil	09/22/20 08:53	09-23-2020 11:45
BH-59 @ 1'	0I23010-38	Soil	09/22/20 08:56	09-23-2020 11:45
BH-60 @ 1'	0I23010-39	Soil	09/22/20 09:00	09-23-2020 11:45
BH-61 @ 1'	0I23010-40	Soil	09/22/20 09:05	09-23-2020 11:45
BH-62 @ 1'	0I23010-41	Soil	09/22/20 09:10	09-23-2020 11:45
BH-63 @ 1'	0I23010-42	Soil	09/22/20 09:15	09-23-2020 11:45
BH-64 @ 1'	0I23010-43	Soil	09/22/20 09:20	09-23-2020 11:45
BH-65 @ 1'	0I23010-44	Soil	09/22/20 09:25	09-23-2020 11:45
BH-66 @ 1'	0I23010-45	Soil	09/22/20 09:30	09-23-2020 11:45
BH-67 @ 1'	0I23010-46	Soil	09/22/20 09:35	09-23-2020 11:45
BH-68 @ 1'	0I23010-47	Soil	09/22/20 09:40	09-23-2020 11:45
BH-69 @ 1'	0I23010-48	Soil	09/22/20 09:45	09-23-2020 11:45
BH-70 @ 1'	0I23010-49	Soil	09/22/20 09:50	09-23-2020 11:45
BH-71 @ 1'	0I23010-50	Soil	09/22/20 09:55	09-23-2020 11:45
North SW A1 @ 1.5'	0I23010-51	Soil	09/22/20 10:05	09-23-2020 11:45
North SW A2 @ 1.5'	0I23010-52	Soil	09/22/20 10:10	09-23-2020 11:45
West SW A1 @ 1.5'	0I23010-53	Soil	09/22/20 10:15	09-23-2020 11:45
West SW A2 @ 1.5'	0I23010-54	Soil	09/22/20 10:20	09-23-2020 11:45
South SW A1 @ 1.5'	0I23010-55	Soil	09/22/20 10:25	09-23-2020 11:45
East SW A1 @ 1.5'	0I23010-56	Soil	09/22/20 10:30	09-23-2020 11:45
South SW A2 @ 2'	0I23010-57	Soil	09/22/20 10:40	09-23-2020 11:45
BH-72 @ 1'	0I23010-58	Soil	09/22/20 11:00	09-23-2020 11:45
BH-73 @ 1'	0I23010-59	Soil	09/22/20 11:05	09-23-2020 11:45
BH-74 @ 1'	0I23010-60	Soil	09/22/20 11:10	09-23-2020 11:45
BH-75 @ 1'	0I23010-61	Soil	09/22/20 11:15	09-23-2020 11:45
BH-76 @ 1'	0I23010-62	Soil	09/22/20 11:20	09-23-2020 11:45
BH-77 @ 1'	0I23010-63	Soil	09/22/20 11:25	09-23-2020 11:45
BH-78 @ 1'	0I23010-64	Soil	09/22/20 11:30	09-23-2020 11:45
BH-79 @ 1'	0I23010-65	Soil	09/22/20 11:35	09-23-2020 11:45
BH-80 @ 1'	0I23010-66	Soil	09/22/20 11:40	09-23-2020 11:45
BH-81 @ 2'	0I23010-67	Soil	09/22/20 11:45	09-23-2020 11:45
North SW B1 @ 1'	0I23010-68	Soil	09/22/20 11:50	09-23-2020 11:45

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
East SW B1 @ 1'	0I23010-69	Soil	09/22/20 11:55	09-23-2020 11:45
South SW B1 @ 1'	0I23010-70	Soil	09/22/20 12:00	09-23-2020 11:45
West SW B1 @ 1'	0I23010-71	Soil	09/22/20 12:05	09-23-2020 11:45
South SW B2 @ 6"	0I23010-72	Soil	09/22/20 12:15	09-23-2020 11:45
East SW B2 @ 6"	0I23010-73	Soil	09/22/20 12:20	09-23-2020 11:45
North SW B2 @ 6"	0I23010-74	Soil	09/22/20 12:25	09-23-2020 11:45
West SW B2 @ 6"	0I23010-75	Soil	09/22/20 12:30	09-23-2020 11:45
West SW A3 @ 6"	0I23010-76	Soil	09/22/20 13:00	09-23-2020 11:45

Permian Basin Environmental Lab, L.P.

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12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-22 @ 3'**  
**0123010-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B
Surrogate: 4-Bromofluorobenzene		97.5 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.38	1.03	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M
Surrogate: 1-Chlorooctane		82.7 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M
Surrogate: o-Terphenyl		93.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc

Permian Basin Environmental Lab, L.P.

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Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-23 @ 3'**  
**0123010-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.5 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.18	1.05	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	27.2	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		95.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>27.2</b>	26.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-24 @ 3'**  
**0123010-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.57	1.03	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-25 @ 3'**  
**0123010-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.6 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.71	1.05	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.3 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		97.5 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-26 @ 3'**  
**0123010-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.43	1.01	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	372	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	184	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		92.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	556	25.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-27 @ 3'**  
**0123010-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.6 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.3 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.29	1.02	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	827	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	430	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		76.5 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		87.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1260</b>	25.5	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-28 @ 3'**  
**0123010-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.7 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.58	1.04	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-29 @ 3'**  
**0123010-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	12.3	1.03	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.8 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-30 @ 3'**  
**0123010-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.2 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.07	1.04	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	4.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.0 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-31 @ 3'**  
**0123010-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.96	1.05	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.5 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-32 @ 3'**  
**0123010-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.2 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.63	1.01	mg/kg dry	1	P012805	09/28/20	09/28/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	278	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	138	25.3	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		98.2 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	417	25.3	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-33 @ 3'**  
**0123010-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.87	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	151	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	85.7	25.5	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		86.9 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	237	25.5	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-34 @ 3'**  
**0123010-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %	75-125		P012309	09/23/20	09/24/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	12.1	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P012311	09/23/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/23/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-35 @ 3'**  
**0123010-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00400</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		95.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.87</b>	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>58.3</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.9 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		95.7 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>58.3</b>	25.8	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-36 @ 3'**  
**0123010-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.2 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		132 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.71	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		80.5 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		92.4 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-37 @ 3'**  
**0123010-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00386</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00757</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00208</b>	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.08</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>401</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>234</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.9 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>635</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-38 @ 3'**  
**0123010-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00263</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00552</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		136 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		96.1 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.54</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>306</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>103</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		81.0 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		91.4 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>409</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-39 @ 3'**  
**0123010-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00272</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00693</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.07</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>221</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>101</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		88.0 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>321</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-40 @ 3'**  
**0123010-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00194</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.84</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>26.2</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>26.2</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-41 @ 3'**  
**0123010-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00140</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.85</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-42 @ 3'**  
**0123010-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00192</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.26</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.3 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		98.9 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-43 @ 3'**  
**0123010-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00181</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00416</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.51</b>	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>202</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>80.8</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		88.0 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>283</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-44 @ 3'**  
**0123010-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00470</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00881</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00217</b>	0.00200	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.0 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.79</b>	1.00	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>302</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>114</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>415</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-45 @ 3'**  
**0123010-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00232</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00679</b>	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00243</b>	0.00202	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.9 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.84</b>	1.01	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>114</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>51.2</b>	25.3	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		96.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>165</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-46 @ 3'**  
**0123010-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00314</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00711</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00224</b>	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		96.3 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.24</b>	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>441</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>170</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		106 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>611</b>	25.8	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-47 @ 3'**  
**0123010-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00466</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00886</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		92.2 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.45</b>	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>590</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>209</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		79.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		93.6 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>799</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-48 @ 3'**  
**0123010-27 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00192</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00527</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00215</b>	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		89.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.61</b>	1.04	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>106</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>42.7</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.8 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P012405	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>149</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-49 @ 3'**  
**0123010-28 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00453</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00733</b>	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.0 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.24</b>	1.00	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>794</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>293</b>	25.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.4 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1090</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-50 @ 3'**  
**0123010-29 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00352</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00723</b>	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00212</b>	0.00204	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.09</b>	1.02	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>453</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>211</b>	25.5	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		82.7 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		94.2 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>665</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-51 @ 3'**  
**0123010-30 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00188</b>	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		133 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.39</b>	1.06	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>90.3</b>	26.6	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>39.9</b>	26.6	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		83.6 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		96.2 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>130</b>	26.6	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-52 @ 3'**  
**0123010-31 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00353</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00942</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00137</b>	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00354</b>	0.00206	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00103	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.5 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.29</b>	1.03	mg/kg dry	1	P012903	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.8	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>141</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>75.0</b>	25.8	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		81.8 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.4 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>216</b>	25.8	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-53 @ 3'**  
**0123010-32 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00301</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.00675</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.6 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.66</b>	1.04	mg/kg dry	1	P012904	09/29/20	09/30/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
>C12-C28	<b>628</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
>C28-C35	<b>261</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		76.1 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		87.4 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>889</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-54 @ 3'**  
**0123010-33 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00411</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Toluene</b>	<b>0.0101</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00132</b>	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00344</b>	0.00208	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00104	mg/kg dry	1	P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		104 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %	75-125		P012412	09/24/20	09/29/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.00</b>	1.04	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>712</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>277</b>	26.0	mg/kg dry	1	P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		79.9 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		90.8 %	70-130		P012405	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>989</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-55 @ 3'**  
**0123010-34 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00526</b>	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00545</b>	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.9 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.33</b>	1.04	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>352</b>	26.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>148</b>	26.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.6 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		99.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>500</b>	26.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-56 @ 3'**  
**0123010-35 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00411</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00712</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		126 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.07</b>	1.02	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>499</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>220</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		84.8 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		88.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>719</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-57 @ 3'**  
**0123010-36 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00397</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00462</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		99.2 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>10.0</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>184</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>73.2</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>258</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-58 @ 1'**  
**0123010-37 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00568</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00796</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.78</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>504</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>177</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.1 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		91.5 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>680</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-59 @ 1'**  
**0123010-38 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00509</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00807</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.99</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>356</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>119</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>476</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-60 @ 1'**  
**0123010-39 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00643</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0131</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00142</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00342</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		119 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		99.5 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.95</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>194</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>66.5</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		95.1 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		98.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>260</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-61 @ 1'**  
**0123010-40 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00834</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0152</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00144</b>	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00330</b>	0.00204	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00102	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		118 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.6 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.97</b>	1.02	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>205</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>69.6</b>	25.5	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		91.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.8 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>275</b>	25.5	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-62 @ 1'**  
**0123010-41 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00590</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00927</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.35</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C12-C28	<b>202</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
>C28-C35	<b>77.2</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		98.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>280</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-63 @ 1'**  
**0123010-42 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00528</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00753</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.66</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>198</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>87.5</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.2 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>285</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-64 @ 1'**  
**0123010-43 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00479</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00966</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00107</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00216</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.7 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		129 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.60</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>134</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>57.6</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		97.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		101 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>192</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-65 @ 1'**  
**0123010-44 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00697</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00894</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.49</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>166</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>68.8</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.7 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>235</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-66 @ 1'**  
**0123010-45 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00455</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00642</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.81</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>235</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>99.4</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>335</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-67 @ 1'**  
**0123010-46 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00499</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00791</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.7 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		127 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.13</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>248</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>104</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.6 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P012406	09/24/20	09/24/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>352</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/24/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-68 @ 1'**  
**0123010-47 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00447</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00650</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.52</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>247</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>97.6</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.6 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		92.4 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>345</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-69 @ 1'**  
**0123010-48 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00645</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0129</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00135</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00290</b>	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		103 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.79</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>128</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>55.6</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		92.1 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		95.5 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>184</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-70 @ 1'**  
**0123010-49 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00394</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00831</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00107</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00236</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		99.3 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.95</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>85.9</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>35.1</b>	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		90.4 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		93.8 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>121</b>	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-71 @ 1'**  
**0123010-50 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00157</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00667</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00118</b>	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00282</b>	0.00202	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		118 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.13</b>	1.01	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		78.2 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		88.3 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW A1 @ 1.5'**  
**0123010-51 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00877</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0146</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00148</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00322</b>	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>2.87</b>	1.00	mg/kg dry	1	P012904	09/29/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>238</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>80.7</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		89.7 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		92.2 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>319</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW A2 @ 1.5'**  
**0123010-52 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00637</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.00906</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.61</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>270</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>85.4</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.3 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		94.3 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>356</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW A1 @ 1.5'**  
**0123010-53 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00878</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Toluene</b>	<b>0.0151</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00157</b>	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00344</b>	0.00200	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		100 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %	75-125		P012414	09/24/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.74</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
<b>% Moisture</b>	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>127</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>37.9</b>	25.0	mg/kg dry	1	P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.0 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		100 %	70-130		P012406	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>165</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW A2 @ 1.5'**  
**0123010-54 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00587</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.0113</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00196</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00480</b>	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00111</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		122 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		101 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>6.08</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>187</b>	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>45.8</b>	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		74.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		78.5 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>233</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW A1 @ 1.5'**  
**0123010-55 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00149</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.00727</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00179</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00471</b>	0.00202	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.8 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.71</b>	1.01	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		89.4 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		96.2 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW A1 @ 1.5'**  
**0123010-56 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00179</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.00700</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00119</b>	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00298</b>	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		118 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		97.6 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.29</b>	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		94.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		99.4 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW A2 @ 2'**  
**0123010-57 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00290</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Toluene</b>	<b>0.0116</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00172</b>	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00421</b>	0.00202	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00101	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.3 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.82</b>	1.01	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		85.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		92.6 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-72 @ 1'**  
**0123010-58 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.7 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.71	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.6 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		97.2 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-73 @ 1'**  
**0123010-59 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		130 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.21	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	44.0	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		94.0 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>44.0</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-74 @ 1'**  
**0123010-60 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.9 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.89	1.01	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		98.3 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-75 @ 1'**  
**0123010-61 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.63	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	32.0	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		99.4 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>32.0</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-76 @ 1'**  
**0123010-62 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		96.6 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.96	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	30.0	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.9 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>30.0</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-77 @ 1'**  
**0123010-63 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.24	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.7 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-78 @ 1'**  
**0123010-64 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.86	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	27.6	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>27.6</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-79 @ 1'**  
**0123010-65 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.61	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-80 @ 1'**  
**0123010-66 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.8 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		126 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	S-GC

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.16	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	30.8	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.9 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>30.8</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-81 @ 2'**  
**0123010-67 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.61	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	39.6	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		77.9 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		83.1 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>39.6</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B1 @ 1'**  
**0123010-68 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P013003	09/30/20	09/30/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.41	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW B1 @ 1'**  
**0123010-69 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.07	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.3 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		96.3 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW B1 @ 1'**  
**0123010-70 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.39	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	35.6	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>35.6</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B1 @ 1'**  
**0123010-71 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P013003	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	12.4	1.00	mg/kg dry	1	P012906	09/29/20	09/29/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P012402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	44.2	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P012407	09/24/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>44.2</b>	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW B2 @ 6"**  
**0123010-72 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		121 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	11.6	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW B2 @ 6"**  
**0123010-73 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.76	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0I2407	09/24/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/24/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B2 @ 6"**  
**0123010-74 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.45	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		87.8 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		95.3 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/25/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B2 @ 6"**  
**0123010-75 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		119 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.57	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	09/25/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW A3 @ 6"**  
**0123010-76 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.37	1.00	mg/kg dry	1	P0J0105	10/01/20	10/01/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0I2402	09/24/20	09/24/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C12-C28	40.1	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.2 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
Surrogate: o-Terphenyl		92.2 %	70-130		P0I2505	09/25/20	09/25/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>40.1</b>	25.0	mg/kg dry	1	[CALC]	09/25/20	09/25/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012309 - General Preparation (GC)****Blank (P012309-BLK1)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	0.00210	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.0	75-125			

**LCS (P012309-BS1)**

Prepared &amp; Analyzed: 09/23/20

Benzene	0.0889	0.00100	mg/kg wet	0.100		88.9	70-130			
Toluene	0.0924	0.00100	"	0.100		92.4	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.191	0.00200	"	0.200		95.6	70-130			
Xylene (o)	0.105	0.00100	"	0.100		105	70-130			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.2	75-125			

**LCS Dup (P012309-BS1)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0863	0.00100	mg/kg wet	0.100		86.3	70-130	2.99	20	
Toluene	0.0863	0.00100	"	0.100		86.3	70-130	6.85	20	
Ethylbenzene	0.0946	0.00100	"	0.100		94.6	70-130	6.08	20	
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	70-130	4.66	20	
Xylene (o)	0.0986	0.00100	"	0.100		98.6	70-130	6.18	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.4	75-125			

**Calibration Check (P012309-CCV1)**

Prepared &amp; Analyzed: 09/23/20

Benzene	0.0886	0.00100	mg/kg wet	0.100		88.6	80-120			
Toluene	0.0914	0.00100	"	0.100		91.4	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.9	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012309 - General Preparation (GC)****Calibration Check (P012309-CCV2)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0826	0.00100	mg/kg wet	0.100		82.6	80-120			
Toluene	0.0819	0.00100	"	0.100		81.9	80-120			
Ethylbenzene	0.0885	0.00100	"	0.100		88.5	80-120			
Xylene (p/m)	0.165	0.00200	"	0.200		82.7	80-120			
Xylene (o)	0.0896	0.00100	"	0.100		89.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.6	75-125			

**Calibration Check (P012309-CCV3)**

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0919	0.00100	mg/kg wet	0.100		91.9	80-120			
Toluene	0.0882	0.00100	"	0.100		88.2	80-120			
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200		90.4	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.4	75-125			

**Matrix Spike (P012309-MS1)**

Source: 0123008-21

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0866	0.00114	mg/kg dry	0.114	ND	76.2	80-120			QM-07
Toluene	0.0785	0.00114	"	0.114	ND	69.1	80-120			QM-07
Ethylbenzene	0.0989	0.00114	"	0.114	ND	87.0	80-120			
Xylene (p/m)	0.165	0.00227	"	0.227	ND	72.4	80-120			QM-07
Xylene (o)	0.0844	0.00114	"	0.114	ND	74.3	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.130		"	0.136		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.136		97.4	75-125			

**Matrix Spike Dup (P012309-MSD1)**

Source: 0123008-21

Prepared: 09/23/20 Analyzed: 09/24/20

Benzene	0.0933	0.00114	mg/kg dry	0.114	ND	82.1	80-120	7.46	20	
Toluene	0.0851	0.00114	"	0.114	ND	74.9	80-120	8.10	20	QM-07
Ethylbenzene	0.107	0.00114	"	0.114	ND	94.0	80-120	7.73	20	
Xylene (p/m)	0.178	0.00227	"	0.227	ND	78.5	80-120	8.10	20	QM-07
Xylene (o)	0.0934	0.00114	"	0.114	ND	82.2	80-120	10.1	20	
Surrogate: 1,4-Difluorobenzene	0.130		"	0.136		95.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.136		97.7	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012412 - General Preparation (GC)****Blank (P012412-BLK1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.160		"	0.120		134	75-125			S-GC

**LCS (P012412-BS1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0934	0.00100	mg/kg wet	0.100		93.4	70-130			
Toluene	0.0925	0.00100	"	0.100		92.5	70-130			
Ethylbenzene	0.0938	0.00100	"	0.100		93.8	70-130			
Xylene (p/m)	0.202	0.00200	"	0.200		101	70-130			
Xylene (o)	0.118	0.00100	"	0.100		118	70-130			
Surrogate: 4-Bromofluorobenzene	0.151		"	0.120		126	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	75-125			

**LCS Dup (P012412-BSD1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0944	0.00100	mg/kg wet	0.100		94.4	70-130	1.05	20	
Toluene	0.0940	0.00100	"	0.100		94.0	70-130	1.61	20	
Ethylbenzene	0.0974	0.00100	"	0.100		97.4	70-130	3.85	20	
Xylene (p/m)	0.207	0.00200	"	0.200		104	70-130	2.50	20	
Xylene (o)	0.119	0.00100	"	0.100		119	70-130	0.929	20	
Surrogate: 4-Bromofluorobenzene	0.156		"	0.120		130	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			

**Calibration Check (P012412-CCV1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0903	0.00100	mg/kg wet	0.100		90.3	80-120			
Toluene	0.0903	0.00100	"	0.100		90.3	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.2	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.150		"	0.120		125	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I2412 - General Preparation (GC)****Calibration Check (P0I2412-CCV2)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0917	0.00100	mg/kg wet	0.100		91.7	80-120			
Toluene	0.0912	0.00100	"	0.100		91.2	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.0	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.141		"	0.120		118	75-125			

**Calibration Check (P0I2412-CCV3)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0899	0.00100	mg/kg wet	0.100		89.9	80-120			
Toluene	0.0900	0.00100	"	0.100		90.0	80-120			
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.1	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		116	75-125			

**Matrix Spike (P0I2412-MS1)**

Source: 0123010-14

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0793	0.00103	mg/kg dry	0.103	0.000948	76.0	80-120			QM-07
Toluene	0.0773	0.00103	"	0.103	0.00400	71.1	80-120			QM-07
Ethylbenzene	0.0890	0.00103	"	0.103	0.000670	85.7	80-120			
Xylene (p/m)	0.143	0.00206	"	0.206	0.00180	68.6	80-120			QM-07
Xylene (o)	0.0779	0.00103	"	0.103	ND	75.6	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.124		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.145		"	0.124		117	75-125			

**Matrix Spike Dup (P0I2412-MSD1)**

Source: 0123010-14

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0784	0.00103	mg/kg dry	0.103	0.000948	75.1	80-120	1.19	20	QM-07
Toluene	0.0742	0.00103	"	0.103	0.00400	68.1	80-120	4.31	20	QM-07
Ethylbenzene	0.0845	0.00103	"	0.103	0.000670	81.4	80-120	5.18	20	
Xylene (p/m)	0.138	0.00206	"	0.206	0.00180	66.0	80-120	3.80	20	QM-07
Xylene (o)	0.0737	0.00103	"	0.103	ND	71.5	80-120	5.52	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.124		"	0.124		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.150		"	0.124		121	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012414 - General Preparation (GC)****Blank (P012414-BLK1)**

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.156		"	0.120		130	75-125			S-GC

**LCS (P012414-BS1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0896	0.00100	mg/kg wet	0.100		89.6	70-130			
Toluene	0.0883	0.00100	"	0.100		88.3	70-130			
Ethylbenzene	0.0883	0.00100	"	0.100		88.3	70-130			
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

**LCS Dup (P012414-BSD1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0834	0.00100	mg/kg wet	0.100		83.4	70-130	7.25	20	
Toluene	0.0811	0.00100	"	0.100		81.1	70-130	8.50	20	
Ethylbenzene	0.0877	0.00100	"	0.100		87.7	70-130	0.693	20	
Xylene (p/m)	0.170	0.00200	"	0.200		85.1	70-130	6.93	20	
Xylene (o)	0.0982	0.00100	"	0.100		98.2	70-130	8.02	20	
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		123	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

**Calibration Check (P012414-CCV1)**

Prepared: 09/24/20 Analyzed: 09/29/20

Benzene	0.0899	0.00100	mg/kg wet	0.100		89.9	80-120			
Toluene	0.0900	0.00100	"	0.100		90.0	80-120			
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		89.1	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

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Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I2414 - General Preparation (GC)****Calibration Check (P0I2414-CCV2)**

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	80-120			
Toluene	0.0867	0.00100	"	0.100		86.7	80-120			
Ethylbenzene	0.0970	0.00100	"	0.100		97.0	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200		91.6	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.153		"	0.120		127	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	75-125			

**Calibration Check (P0I2414-CCV3)**

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0900	0.00100	mg/kg wet	0.100		90.0	80-120			
Toluene	0.0868	0.00100	"	0.100		86.8	80-120			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (p/m)	0.178	0.00200	"	0.200		88.8	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		124	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.8	75-125			

**Matrix Spike (P0I2414-MS1)**

Source: 0123010-34

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0714	0.00104	mg/kg dry	0.104	0.00526	63.5	80-120			QM-07
Toluene	0.0575	0.00104	"	0.104	0.00545	50.0	80-120			QM-07
Ethylbenzene	0.0559	0.00104	"	0.104	0.000583	53.1	80-120			QM-07
Xylene (p/m)	0.0931	0.00208	"	0.208	0.00130	44.0	80-120			QM-07
Xylene (o)	0.0454	0.00104	"	0.104	ND	43.6	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.125		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.152		"	0.125		122	75-125			

**Matrix Spike Dup (P0I2414-MSD1)**

Source: 0123010-34

Prepared: 09/24/20 Analyzed: 09/30/20

Benzene	0.0704	0.00104	mg/kg dry	0.104	0.00526	62.5	80-120	1.57	20	QM-07
Toluene	0.0523	0.00104	"	0.104	0.00545	45.0	80-120	10.5	20	QM-07
Ethylbenzene	0.0472	0.00104	"	0.104	0.000583	44.7	80-120	17.2	20	QM-07
Xylene (p/m)	0.0789	0.00208	"	0.208	0.00130	37.3	80-120	16.7	20	QM-07
Xylene (o)	0.0371	0.00104	"	0.104	ND	35.6	80-120	20.2	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.152		"	0.125		122	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.125		96.8	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013003 - General Preparation (GC)****Blank (P013003-BLK1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.153		"	0.120		128	75-125			S-GC

**LCS (P013003-BS1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0908	0.00100	mg/kg wet	0.100		90.8	70-130			
Toluene	0.0885	0.00100	"	0.100		88.5	70-130			
Ethylbenzene	0.0932	0.00100	"	0.100		93.2	70-130			
Xylene (p/m)	0.194	0.00200	"	0.200		97.0	70-130			
Xylene (o)	0.112	0.00100	"	0.100		112	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.155		"	0.120		129	75-125			S-GC

**LCS Dup (P013003-BSD1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0812	0.00100	mg/kg wet	0.100		81.2	70-130	11.2	20	
Toluene	0.0814	0.00100	"	0.100		81.4	70-130	8.45	20	
Ethylbenzene	0.0907	0.00100	"	0.100		90.7	70-130	2.75	20	
Xylene (p/m)	0.173	0.00200	"	0.200		86.6	70-130	11.4	20	
Xylene (o)	0.0982	0.00100	"	0.100		98.2	70-130	13.0	20	
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		123	75-125			

**Calibration Check (P013003-CCV1)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0838	0.00100	mg/kg wet	0.100		83.8	80-120			
Toluene	0.0816	0.00100	"	0.100		81.6	80-120			
Ethylbenzene	0.0909	0.00100	"	0.100		90.9	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		86.2	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.149		"	0.120		124	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	75-125			

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**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013003 - General Preparation (GC)****Calibration Check (P013003-CCV2)**

Prepared &amp; Analyzed: 09/30/20

Benzene	0.0882	0.00100	mg/kg wet	0.100		88.2	80-120			
Toluene	0.0826	0.00100	"	0.100		82.6	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100		94.7	80-120			
Xylene (p/m)	0.180	0.00200	"	0.200		89.8	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.154		"	0.120		128	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	75-125			

**Calibration Check (P013003-CCV3)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0900	0.00100	mg/kg wet	0.100		90.0	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.3	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

**Matrix Spike (P013003-MS1)**

Source: 0130006-01

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.257	0.00149	mg/kg dry	0.149	0.385	NR	80-120			QM-07
Toluene	0.353	0.00149	"	0.149	2.86	NR	80-120			QM-07
Ethylbenzene	0.536	0.00149	"	0.149	7.49	NR	80-120			QM-07
Xylene (p/m)	1.15	0.00299	"	0.299	13.5	NR	80-120			QM-07
Xylene (o)	0.420	0.00149	"	0.149	8.47	NR	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0885		"	0.179		49.4	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.171		"	0.179		95.6	75-125			

**Matrix Spike Dup (P013003-MSD1)**

Source: 0130006-01

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.251	0.00149	mg/kg dry	0.149	0.385	NR	80-120	NR	20	QM-07
Toluene	0.360	0.00149	"	0.149	2.86	NR	80-120	NR	20	QM-07
Ethylbenzene	0.741	0.00149	"	0.149	7.49	NR	80-120	NR	20	QM-07
Xylene (p/m)	1.15	0.00299	"	0.299	13.5	NR	80-120	NR	20	QM-07
Xylene (o)	0.434	0.00149	"	0.149	8.47	NR	80-120	NR	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0986		"	0.179		55.1	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.186		"	0.179		104	75-125			

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1400 Rankin HWY Midland, TX 79701 432-686-7235



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Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013009 - General Preparation (GC)****Blank (P013009-BLK1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	75-125			

**LCS (P013009-BS1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0912	0.00100	mg/kg wet	0.100		91.2	70-130			
Toluene	0.0886	0.00100	"	0.100		88.6	70-130			
Ethylbenzene	0.0970	0.00100	"	0.100		97.0	70-130			
Xylene (p/m)	0.193	0.00200	"	0.200		96.7	70-130			
Xylene (o)	0.111	0.00100	"	0.100		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.159		"	0.120		132	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	75-125			

**LCS Dup (P013009-BSD1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0828	0.00100	mg/kg wet	0.100		82.8	70-130	9.66	20	
Toluene	0.0833	0.00100	"	0.100		83.3	70-130	6.21	20	
Ethylbenzene	0.0925	0.00100	"	0.100		92.5	70-130	4.78	20	
Xylene (p/m)	0.171	0.00200	"	0.200		85.7	70-130	12.0	20	
Xylene (o)	0.100	0.00100	"	0.100		100	70-130	10.0	20	
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

**Calibration Check (P013009-CCV1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0900	0.00100	mg/kg wet	0.100		90.0	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.3	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			

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Project Manager: Sylwia Reynolds

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**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P013009 - General Preparation (GC)****Calibration Check (P013009-CCV2)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0876	0.00100	mg/kg wet	0.100		87.6	80-120			
Toluene	0.0861	0.00100	"	0.100		86.1	80-120			
Ethylbenzene	0.0966	0.00100	"	0.100		96.6	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.4	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		121	75-125			

**Calibration Check (P013009-CCV3)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0852	0.00100	mg/kg wet	0.100		85.2	80-120			
Toluene	0.0873	0.00100	"	0.100		87.3	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.171	0.00200	"	0.200		85.4	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

**Matrix Spike (P013009-MS1)**

Source: 0123010-72

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0774	0.00100	mg/kg dry	0.100	ND	77.4	80-120			QM-07
Toluene	0.0763	0.00100	"	0.100	ND	76.3	80-120			QM-07
Ethylbenzene	0.0832	0.00100	"	0.100	ND	83.2	80-120			
Xylene (p/m)	0.132	0.00200	"	0.200	ND	66.2	80-120			QM-07
Xylene (o)	0.0729	0.00100	"	0.100	ND	72.9	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		122	75-125			

**Matrix Spike Dup (P013009-MSD1)**

Source: 0123010-72

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0715	0.00100	mg/kg dry	0.100	ND	71.5	80-120	7.94	20	QM-07
Toluene	0.0726	0.00100	"	0.100	ND	72.6	80-120	5.00	20	QM-07
Ethylbenzene	0.0781	0.00100	"	0.100	ND	78.1	80-120	6.30	20	QM-07
Xylene (p/m)	0.125	0.00200	"	0.200	ND	62.3	80-120	6.18	20	QM-07
Xylene (o)	0.0687	0.00100	"	0.100	ND	68.7	80-120	5.96	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.6	75-125			

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Project Manager: Sylwia Reynolds

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012402 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P012402-BLK1)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Blank (P012402-BLK2)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Blank (P012402-BLK3)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Blank (P012402-BLK4)</b>	Prepared & Analyzed: 09/24/20									
% Moisture	ND	0.1	%							
<b>Duplicate (P012402-DUP1)</b>	<b>Source: 0123010-10</b>		Prepared & Analyzed: 09/24/20							
% Moisture	5.0	0.1	%		5.0			0.00	20	
<b>Duplicate (P012402-DUP2)</b>	<b>Source: 0123010-20</b>		Prepared & Analyzed: 09/24/20							
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P012402-DUP3)</b>	<b>Source: 0123010-35</b>		Prepared & Analyzed: 09/24/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P012402-DUP4)</b>	<b>Source: 0123010-45</b>		Prepared & Analyzed: 09/24/20							
% Moisture	1.0	0.1	%		ND			200	20	
<b>Duplicate (P012402-DUP5)</b>	<b>Source: 0123010-60</b>		Prepared & Analyzed: 09/24/20							
% Moisture	ND	0.1	%		1.0			200	20	
<b>Duplicate (P012402-DUP6)</b>	<b>Source: 0123010-70</b>		Prepared & Analyzed: 09/24/20							
% Moisture	ND	0.1	%		ND				20	

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**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012805 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P012805-BLK1)</b>				Prepared & Analyzed: 09/28/20						
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P012805-BS1)</b>				Prepared & Analyzed: 09/28/20						
Chloride	398	1.00	mg/kg wet	400		99.6	80-120			
<b>LCS Dup (P012805-BSD1)</b>				Prepared & Analyzed: 09/28/20						
Chloride	397	1.00	mg/kg wet	400		99.4	80-120	0.201	20	
<b>Calibration Blank (P012805-CCB2)</b>				Prepared & Analyzed: 09/28/20						
Chloride	0.00		mg/kg wet							
<b>Calibration Check (P012805-CCV1)</b>				Prepared & Analyzed: 09/28/20						
Chloride	19.8		mg/kg	20.0		98.9	0-200			
<b>Calibration Check (P012805-CCV2)</b>				Prepared & Analyzed: 09/28/20						
Chloride	19.9		mg/kg	20.0		99.7	0-200			
<b>Calibration Check (P012805-CCV3)</b>				Prepared & Analyzed: 09/28/20						
Chloride	19.9		mg/kg	20.0		99.7	0-200			
<b>Matrix Spike (P012805-MS1)</b>				<b>Source: 0123008-19</b>		Prepared & Analyzed: 09/28/20				
Chloride	910	5.75	mg/kg dry	575	286	109	80-120			
<b>Matrix Spike (P012805-MS2)</b>				<b>Source: 0123010-02</b>		Prepared & Analyzed: 09/28/20				
Chloride	527	1.05	mg/kg dry	526	9.18	98.3	80-120			
<b>Matrix Spike Dup (P012805-MSD1)</b>				<b>Source: 0123008-19</b>		Prepared & Analyzed: 09/28/20				
Chloride	881	5.75	mg/kg dry	575	286	104	80-120	3.18	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012805 - \*\*\* DEFAULT PREP \*\*\*****Matrix Spike Dup (P012805-MSD2)****Source: 0123010-02**

Prepared &amp; Analyzed: 09/28/20

Chloride	516	1.05	mg/kg dry	526	9.18	96.3	80-120	2.07	20	
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**Batch P012903 - \*\*\* DEFAULT PREP \*\*\*****Blank (P012903-BLK1)**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	ND	1.00	mg/kg wet							
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**LCS (P012903-BS1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	394	1.00	mg/kg wet	400		98.6	80-120			
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**LCS Dup (P012903-BSD1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	396	1.00	mg/kg wet	400		99.1	80-120	0.486	20	
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**Calibration Check (P012903-CCV1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	20.1		mg/kg	20.0		101	0-200			
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**Calibration Check (P012903-CCV2)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	22.0		mg/kg	20.0		110	0-200			
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**Matrix Spike (P012903-MS1)****Source: 0123010-12**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	504	1.02	mg/kg dry	510	2.87	98.3	80-120			
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**Matrix Spike (P012903-MS2)****Source: 0123010-22**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	58.4	1.02	mg/kg dry	51.0	7.51	99.8	80-120			
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**Matrix Spike Dup (P012903-MSD1)****Source: 0123010-12**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	491	1.02	mg/kg dry	510	2.87	95.7	80-120	2.63	20	
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Project Manager: Sylwia Reynolds

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012903 - \*\*\* DEFAULT PREP \*\*\*****Matrix Spike Dup (P012903-MSD2)****Source: 0123010-22**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	55.9	1.02	mg/kg dry	51.0	7.51	94.8	80-120	4.50	20	
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**Batch P012904 - \*\*\* DEFAULT PREP \*\*\*****Blank (P012904-BLK1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	ND	1.00	mg/kg wet							
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**LCS (P012904-BS1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	455	1.00	mg/kg wet	420		108	80-120			
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**LCS Dup (P012904-BSD1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	484	1.00	mg/kg wet	420		115	80-120	6.37	20	
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**Calibration Check (P012904-CCV1)**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	20.6		mg/kg	20.0		103	0-200			
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**Calibration Check (P012904-CCV2)**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	20.4		mg/kg	20.0		102	0-200			
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**Calibration Check (P012904-CCV3)**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	21.1		mg/kg	20.0		106	0-200			
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**Matrix Spike (P012904-MS1)****Source: 0123010-32**

Prepared: 09/29/20 Analyzed: 09/30/20

Chloride	52.6	1.04	mg/kg dry	52.1	3.66	93.9	80-120			
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**Matrix Spike (P012904-MS2)****Source: 0123010-42**

Prepared: 09/29/20 Analyzed: 10/01/20

Chloride	52.3	1.00	mg/kg dry	50.0	3.66	97.3	80-120			
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Project Manager: Sylwia Reynolds

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012904 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike Dup (P012904-MSD1)</b>		<b>Source: 0123010-32</b>		Prepared: 09/29/20 Analyzed: 10/01/20						
Chloride	86.1	1.04	mg/kg dry	52.1	3.66	158	80-120	48.4	20	QM-05
<b>Matrix Spike Dup (P012904-MSD2)</b>		<b>Source: 0123010-42</b>		Prepared: 09/29/20 Analyzed: 10/01/20						
Chloride	58.3	1.00	mg/kg dry	50.0	3.66	109	80-120	10.9	20	

**Batch P012906 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P012906-BLK1)</b>		Prepared & Analyzed: 09/29/20								
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P012906-BS1)</b>		Prepared & Analyzed: 09/29/20								
Chloride	403	1.00	mg/kg wet	400		101	80-120			
<b>Calibration Check (P012906-CCV1)</b>		Prepared & Analyzed: 09/29/20								
Chloride	20.0		mg/kg	20.0		100	0-200			
<b>Calibration Check (P012906-CCV2)</b>		Prepared & Analyzed: 09/29/20								
Chloride	20.2		mg/kg	20.0		101	0-200			
<b>Matrix Spike (P012906-MS1)</b>		<b>Source: 0123010-52</b>		Prepared & Analyzed: 09/29/20						
Chloride	50.7	1.00	mg/kg dry	50.0	4.61	92.1	80-120			
<b>Matrix Spike (P012906-MS2)</b>		<b>Source: 0123010-62</b>		Prepared & Analyzed: 09/29/20						
Chloride	54.4	1.00	mg/kg dry	50.0	7.96	92.9	80-120			
<b>Matrix Spike Dup (P012906-MSD1)</b>		<b>Source: 0123010-52</b>		Prepared & Analyzed: 09/29/20						
Chloride	49.6	1.00	mg/kg dry	50.0	4.61	90.1	80-120	2.07	20	

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Project Manager: Sylwia Reynolds

Fax:

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**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0I2906 - \*\*\* DEFAULT PREP \*\*\*****Matrix Spike Dup (P0I2906-MSD2)****Source: 0123010-62**

Prepared &amp; Analyzed: 09/29/20

Chloride	51.5	1.00	mg/kg dry	50.0	7.96	87.1	80-120	5.51	20	
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**Batch P0J0105 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0J0105-BLK1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	ND	1.00	mg/kg wet							
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**LCS (P0J0105-BS1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	389	1.00	mg/kg wet	400		97.3	80-120			
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**LCS Dup (P0J0105-BSD1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	385	1.00	mg/kg wet	400		96.4	80-120	1.01	20	
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**Calibration Blank (P0J0105-CCB1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	0.00		mg/kg wet							
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**Calibration Check (P0J0105-CCV1)**

Prepared &amp; Analyzed: 10/01/20

Chloride	20.1		mg/kg	20.0		100	0-200			
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**Calibration Check (P0J0105-CCV2)**

Prepared &amp; Analyzed: 10/01/20

Chloride	19.4		mg/kg	20.0		96.9	0-200			
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**Calibration Check (P0J0105-CCV3)**

Prepared &amp; Analyzed: 10/01/20

Chloride	20.2		mg/kg	20.0		101	0-200			
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**Matrix Spike (P0J0105-MS1)****Source: 0123010-72**

Prepared: 10/01/20 Analyzed: 10/02/20

Chloride	497	1.00	mg/kg dry	500	11.6	97.1	80-120			
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Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0J0105 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P0J0105-MS2)</b>		<b>Source: 0125009-03</b>			Prepared & Analyzed: 10/01/20					
Chloride	7950	25.3	mg/kg dry	2530	5320	104	80-120			
<b>Matrix Spike Dup (P0J0105-MSD1)</b>		<b>Source: 0123010-72</b>			Prepared: 10/01/20 Analyzed: 10/02/20					
Chloride	490	1.00	mg/kg dry	500	11.6	95.8	80-120	1.34	20	
<b>Matrix Spike Dup (P0J0105-MSD2)</b>		<b>Source: 0125009-03</b>			Prepared & Analyzed: 10/01/20					
Chloride	8030	25.3	mg/kg dry	2530	5320	107	80-120	0.996	20	

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Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012311 - TX 1005****Blank (P012311-BLK1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.3		"	100		80.3	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.0	70-130			

**LCS (P012311-BS1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	797	25.0	mg/kg wet	1000		79.7	75-125			
>C12-C28	932	25.0	"	1000		93.2	75-125			
Surrogate: 1-Chlorooctane	98.8		"	100		98.8	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

**LCS Dup (P012311-BS1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	789	25.0	mg/kg wet	1000		78.9	75-125	0.966	20	
>C12-C28	986	25.0	"	1000		98.6	75-125	5.67	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	51.3		"	50.0		103	70-130			

**Calibration Check (P012311-CCV1)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	437	25.0	mg/kg wet	500		87.5	85-115			
>C12-C28	436	25.0	"	500		87.2	85-115			
Surrogate: 1-Chlorooctane	78.4		"	100		78.4	70-130			
Surrogate: o-Terphenyl	39.6		"	50.0		79.1	70-130			

**Calibration Check (P012311-CCV2)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	433	25.0	mg/kg wet	500		86.7	85-115			
>C12-C28	488	25.0	"	500		97.6	85-115			
Surrogate: 1-Chlorooctane	89.9		"	100		89.9	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.9	70-130			

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Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012311 - TX 1005****Calibration Check (P012311-CCV3)**

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	453	25.0	mg/kg wet	500		90.7	85-115			
>C12-C28	525	25.0	"	500		105	85-115			
Surrogate: 1-Chlorooctane	93.9		"	100		93.9	70-130			
Surrogate: o-Terphenyl	46.7		"	50.0		93.3	70-130			

**Matrix Spike (P012311-MS1)**

Source: 0123010-13

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	917	25.8	mg/kg dry	1030	15.8	87.4	75-125			
>C12-C28	1170	25.8	"	1030	ND	114	75-125			
Surrogate: 1-Chlorooctane	109		"	103		105	70-130			
Surrogate: o-Terphenyl	46.2		"	51.5		89.6	70-130			

**Matrix Spike Dup (P012311-MSD1)**

Source: 0123010-13

Prepared: 09/23/20 Analyzed: 09/24/20

C6-C12	906	25.8	mg/kg dry	1030	15.8	86.3	75-125	1.26	20	
>C12-C28	1140	25.8	"	1030	ND	111	75-125	2.87	20	
Surrogate: 1-Chlorooctane	107		"	103		104	70-130			
Surrogate: o-Terphenyl	45.4		"	51.5		88.1	70-130			

**Batch P012405 - TX 1005****Blank (P012405-BLK1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	71.5		"	100		71.5	70-130			
Surrogate: o-Terphenyl	39.4		"	50.0		78.9	70-130			

**LCS (P012405-BS1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	759	25.0	mg/kg wet	1000		75.9	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	90.8		"	100		90.8	70-130			
Surrogate: o-Terphenyl	39.2		"	50.0		78.3	70-130			

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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012405 - TX 1005****LCS Dup (P012405-BSD1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	785	25.0	mg/kg wet	1000		78.5	75-125	3.37	20	
>C12-C28	952	25.0	"	1000		95.2	75-125	1.31	20	
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	40.0		"	50.0		80.0	70-130			

**Calibration Check (P012405-CCV1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	426	25.0	mg/kg wet	500		85.1	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	85.9		"	100		85.9	70-130			
Surrogate: o-Terphenyl	40.7		"	50.0		81.5	70-130			

**Calibration Check (P012405-CCV2)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	438	25.0	mg/kg wet	500		87.5	85-115			
>C12-C28	499	25.0	"	500		99.7	85-115			
Surrogate: 1-Chlorooctane	87.5		"	100		87.5	70-130			
Surrogate: o-Terphenyl	41.7		"	50.0		83.4	70-130			

**Matrix Spike (P012405-MS1)**

Source: 0123010-20

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	856	26.0	mg/kg dry	1040	12.6	81.0	75-125			
>C12-C28	1000	26.0	"	1040	25.4	93.8	75-125			
Surrogate: 1-Chlorooctane	102		"	104		97.6	70-130			
Surrogate: o-Terphenyl	47.0		"	52.1		90.3	70-130			

**Matrix Spike Dup (P012405-MSD1)**

Source: 0123010-20

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	906	26.0	mg/kg dry	1040	12.6	85.7	75-125	5.67	20	
>C12-C28	1090	26.0	"	1040	25.4	103	75-125	8.99	20	
Surrogate: 1-Chlorooctane	106		"	104		102	70-130			
Surrogate: o-Terphenyl	46.1		"	52.1		88.4	70-130			

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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012406 - TX 1005****Blank (P012406-BLK1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	82.6		"	100		82.6	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.2	70-130			

**LCS (P012406-BS1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	828	25.0	mg/kg wet	1000		82.8	75-125			
>C12-C28	920	25.0	"	1000		92.0	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	41.9		"	50.0		83.7	70-130			

**LCS Dup (P012406-BSD1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	856	25.0	mg/kg wet	1000		85.6	75-125	3.29	20	
>C12-C28	938	25.0	"	1000		93.8	75-125	1.87	20	
Surrogate: 1-Chlorooctane	92.2		"	100		92.2	70-130			
Surrogate: o-Terphenyl	43.0		"	50.0		86.0	70-130			

**Calibration Check (P012406-CCV1)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	440	25.0	mg/kg wet	500		87.9	85-115			
>C12-C28	474	25.0	"	500		94.9	85-115			
Surrogate: 1-Chlorooctane	87.3		"	100		87.3	70-130			
Surrogate: o-Terphenyl	40.5		"	50.0		81.1	70-130			

**Calibration Check (P012406-CCV2)**

Prepared &amp; Analyzed: 09/24/20

C6-C12	487	25.0	mg/kg wet	500		97.4	85-115			
>C12-C28	495	25.0	"	500		99.0	85-115			
Surrogate: 1-Chlorooctane	92.9		"	100		92.9	70-130			
Surrogate: o-Terphenyl	44.5		"	50.0		89.0	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012406 - TX 1005**

<b>Matrix Spike (P012406-MS1)</b>	<b>Source: 0123010-53</b>			Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	799	25.0	mg/kg dry	1000	20.1	77.9	75-125			
>C12-C28	880	25.0	"	1000	127	75.3	75-125			
Surrogate: 1-Chlorooctane	85.9		"	100		85.9	70-130			
Surrogate: o-Terphenyl	37.7		"	50.0		75.4	70-130			

<b>Matrix Spike Dup (P012406-MSD1)</b>	<b>Source: 0123010-53</b>			Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	764	25.0	mg/kg dry	1000	20.1	74.4	75-125	4.54	20	QM-07
>C12-C28	841	25.0	"	1000	127	71.4	75-125	5.29	20	QM-07
Surrogate: 1-Chlorooctane	81.7		"	100		81.7	70-130			
Surrogate: o-Terphenyl	37.2		"	50.0		74.4	70-130			

**Batch P012407 - TX 1005**

<b>Blank (P012407-BLK1)</b>				Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.0		"	100		80.0	70-130			
Surrogate: o-Terphenyl	40.7		"	50.0		81.4	70-130			

<b>LCS (P012407-BS1)</b>				Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	811	25.0	mg/kg wet	1000		81.1	75-125			
>C12-C28	892	25.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	87.6		"	100		87.6	70-130			
Surrogate: o-Terphenyl	39.8		"	50.0		79.5	70-130			

<b>LCS Dup (P012407-BSD1)</b>				Prepared: 09/24/20		Analyzed: 09/25/20				
C6-C12	811	25.0	mg/kg wet	1000		81.1	75-125	0.0197	20	
>C12-C28	901	25.0	"	1000		90.1	75-125	0.976	20	
Surrogate: 1-Chlorooctane	87.7		"	100		87.7	70-130			
Surrogate: o-Terphenyl	40.0		"	50.0		80.0	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012407 - TX 1005****Calibration Check (P012407-CCV1)**

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	467	25.0	mg/kg wet	500		93.4	85-115			
>C12-C28	493	25.0	"	500		98.5	85-115			
Surrogate: 1-Chlorooctane	88.9		"	100		88.9	70-130			
Surrogate: o-Terphenyl	42.2		"	50.0		84.4	70-130			

**Calibration Check (P012407-CCV2)**

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	480	25.0	mg/kg wet	500		95.9	85-115			
>C12-C28	496	25.0	"	500		99.1	85-115			
Surrogate: 1-Chlorooctane	92.6		"	100		92.6	70-130			
Surrogate: o-Terphenyl	43.4		"	50.0		86.9	70-130			

**Calibration Check (P012407-CCV3)**

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	449	25.0	mg/kg wet	500		89.9	85-115			
>C12-C28	486	25.0	"	500		97.3	85-115			
Surrogate: 1-Chlorooctane	88.5		"	100		88.5	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	70-130			

**Matrix Spike (P012407-MS1)**

Source: 0123010-73

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	875	25.0	mg/kg dry	1000	12.5	86.3	75-125			
>C12-C28	973	25.0	"	1000	ND	97.3	75-125			
Surrogate: 1-Chlorooctane	93.0		"	100		93.0	70-130			
Surrogate: o-Terphenyl	43.1		"	50.0		86.1	70-130			

**Matrix Spike Dup (P012407-MSD1)**

Source: 0123010-73

Prepared: 09/24/20 Analyzed: 09/25/20

C6-C12	880	25.0	mg/kg dry	1000	12.5	86.7	75-125	0.550	20	
>C12-C28	977	25.0	"	1000	ND	97.7	75-125	0.396	20	
Surrogate: 1-Chlorooctane	95.4		"	100		95.4	70-130			
Surrogate: o-Terphenyl	43.5		"	50.0		86.9	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012505 - TX 1005****Blank (P012505-BLK1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	81.9		"	100		81.9	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.5	70-130			

**LCS (P012505-BS1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	840	25.0	mg/kg wet	1000		84.0	75-125			
>C12-C28	910	25.0	"	1000		91.0	75-125			
Surrogate: 1-Chlorooctane	91.0		"	100		91.0	70-130			
Surrogate: o-Terphenyl	42.6		"	50.0		85.3	70-130			

**LCS Dup (P012505-BSD1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	851	25.0	mg/kg wet	1000		85.1	75-125	1.33	20	
>C12-C28	935	25.0	"	1000		93.5	75-125	2.73	20	
Surrogate: 1-Chlorooctane	92.7		"	100		92.7	70-130			
Surrogate: o-Terphenyl	43.4		"	50.0		86.8	70-130			

**Calibration Check (P012505-CCV1)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	440	25.0	mg/kg wet	500		87.9	85-115			
>C12-C28	463	25.0	"	500		92.7	85-115			
Surrogate: 1-Chlorooctane	88.4		"	100		88.4	70-130			
Surrogate: o-Terphenyl	41.2		"	50.0		82.3	70-130			

**Calibration Check (P012505-CCV2)**

Prepared &amp; Analyzed: 09/25/20

C6-C12	487	25.0	mg/kg wet	500		97.5	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	96.2		"	100		96.2	70-130			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P012505 - TX 1005****Calibration Check (P012505-CCV3)**

Prepared: 09/25/20 Analyzed: 09/26/20

C6-C12	457	25.0	mg/kg wet	500		91.4	85-115			
>C12-C28	468	25.0	"	500		93.7	85-115			
Surrogate: 1-Chlorooctane	91.5		"	100		91.5	70-130			
Surrogate: o-Terphenyl	42.9		"	50.0		85.7	70-130			

**Matrix Spike (P012505-MS1)**

Source: 0125008-05

Prepared: 09/25/20 Analyzed: 09/26/20

C6-C12	965	26.0	mg/kg dry	1040	14.2	91.3	75-125			
>C12-C28	1720	26.0	"	1040	893	79.7	75-125			
Surrogate: 1-Chlorooctane	108		"	104		104	70-130			
Surrogate: o-Terphenyl	58.0		"	52.1		111	70-130			

**Matrix Spike Dup (P012505-MSD1)**

Source: 0125008-05

Prepared: 09/25/20 Analyzed: 09/26/20

C6-C12	995	26.0	mg/kg dry	1040	14.2	94.1	75-125	3.03	20	
>C12-C28	1630	26.0	"	1040	893	70.7	75-125	12.0	20	QM-05
Surrogate: 1-Chlorooctane	108		"	104		104	70-130			
Surrogate: o-Terphenyl	56.3		"	52.1		108	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 10/5/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Artesia Gathering East Project Number: PP-2075 Project Manager: Sylwia Reynolds	Fax:
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If you have received this material in error, please notify us immediately at 432-686-7235.



## CHAIN OF CUSTODY/RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: *Deanne Equib*e-mail: [sylvia.reynolds@deandis.com](mailto:sylvia.reynolds@deandis.com)
[terriandley@deandis.com](mailto:terriandley@deandis.com)  
[kaylanlongee@deanequib.com](mailto:kaylanlongee@deanequib.com)

Project Name: Plains Artesia East

Project #: PE-2075

Project Loc: Eddy County, NM

PO # SRS # Artesia Gathering Remediation

 Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
[elizabethstuart@deandis.com](mailto:elizabethstuart@deandis.com)
*Analytical & Sample*  
 Analyze For:

(lab use only)

ORDER #: 0123010

LAB # (lab use only)

## FIELD CODE

		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250,ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water S	GW = Groundwater S	NP=Non-Potable Sp	TPH TX1005 EXT	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NE	7 Day Tat
3'	3'	09/18/20	9:00 AM		1	✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:05 AM		1	✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:10 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5'	3'	09/18/20	9:15 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:20 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:25 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:30 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:35 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:40 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3'	3'	09/18/20	9:45 AM			✓	✓	✓								So:1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Laboratory Comments:

## Laboratory Comments:

Sample Containers intact? ☒ N  
 VOCs Free of Headspace? ☒ N  
 Labels on containers? ☒ N  
 Custody seals on containers? ☒ N  
 Custody seals on cooler(s)? ☒ N  
 Sample Hand Delivered? ☒ Y  
 by Courier? ☒ Y  
 by Samplercient Rep.? ☒ Y  
 Temperature Upon Receipt: ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star  
 Received: 5:1 ☒ C ☒ F ☒ L ☒ E



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-686-7235

 Permian Basin Environmental Lab, LP  
 1400 Rankin Hwy  
 Midland, Texas 79701

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0820

Sampler Signature: *[Signature]*

e-mail:

 sylviareynolds@deandigs.com  
 leffindley@deandigs.com  
 kavianlongee@deanequil.com

 Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
 elizabethstuart@deandigs.com

PO #: SES # Adhesia Gutting Remediation

Project Name: Plains Artesia East

Project #: PP-2075

Project Loc: Eddy County, NM

Page 109 of 115

Received by OGD: 4/7/2021 1:09:45 PM

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250 ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCCLP BENZENE	CHLORIDES	TCCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day Tat
11	BH-32 @ 3'	3'	3'	09/18/20	9:50 AM											DW												
12	BH-33 @ 3'	3'	3'	09/18/20	9:55 AM											DW												
13	BH-34 @ 3'	3'	3'	09/18/20	10:00 AM											DW												
14	BH-35 @ 3'	3'	3'	09/18/20	10:05 AM											DW												
15	BH-36 @ 3'	3'	3'	09/18/20	10:10 AM											DW												
16	BH-37 @ 3'	3'	3'	09/18/20	10:15 AM											DW												
17	BH-38 @ 3'	3'	3'	09/18/20	10:20 AM											DW												
18	BH-39 @ 3'	3'	3'	09/18/20	10:25 AM											DW												
19	BH-40 @ 3'	3'	3'	09/18/20	10:30 AM											DW												
20	BH-41 @ 3'	3'	3'	09/18/20	10:35 AM											DW												

## Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered

by Sampler/Client Rep.?

Temperature Upon Receipt:

Adjusted: 5.7 °C Factor





## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: *[Signature]*

e-mail:

syvriareynolds@deandigs.com  
leftindley@deandigs.com  
kavianlongee@deanequip.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

elizabethstuart@deandigs.com

Anita Lewis & Co. Inc.  
Analyze For:

Project Name: Plains Artesia East

Project #: PP-2075

Project Loc: Eddy County, NM

PO #: SRS + Artesia Geothermal Reclamation

ORDER #: 0123010

(lab use only)

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250 ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Requested by: *[Signature]*

Date: 9/21/20

Time: 11:45

Received by:

Date:

Time:

Laboratory Comments:  
Sample Containers intact?  
VOCs Free of Headspace?  
Labels on container(s)  
Custody seals on container(s)  
Custody seals on cooler(s)  
Sample Hand Delivered  
by Sampler/Clerk Rep.?  
by Courier? UPS  
Temperature Upon Receipt:  
Received: 57.7 °C  
Adjusted: 6.7 °C Factor

N N N N N  
N N N N N  
N N N N N  
N N N N N  
N N N N N  
N N N N N  
N N N N N  
N N N N N

Fogex Lone Star





## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP

1400 Rankin Hwy

Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Fax No:

Sampler Signature: *[Signature]*

e-mail:

 sylviareynolds@deandigs.com  
 leftindley@deandigs.com  
 kavaniongee@deanequip.com

 Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
 elizabethstuart@deandigs.com

 Analyze for: *Artesia, Eddy, & Permian*

Project Name: Plains Artesia East

Project #: PP-2075

Project Loc: Eddy County, NM

PO #: SRS &amp; Artesia Gathering Remediation

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 200, ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day Tat
41	BH-62 @ 1'	1'	1'	09/22/20	9:10 AM																									
42	BH-63 @ 1'	1'	1'	09/22/20	9:15 AM																									
43	BH-64 @ 1'	1'	1'	09/22/20	9:20 AM																									
44	BH-65 @ 1'	1'	1'	09/22/20	9:25 AM																									
45	BH-66 @ 1'	1'	1'	09/22/20	9:30 AM																									
46	BH-67 @ 1'	1'	1'	09/22/20	9:35 AM																									
47	BH-68 @ 1'	1'	1'	09/22/20	9:40 AM																									
48	BH-69 @ 1'	1'	1'	09/22/20	9:45 AM																									
49	BH-70 @ 1'	1'	1'	09/22/20	9:50 AM																									
50	BH-71 @ 1'	1'	1'	09/22/20	9:55 AM																									

## Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered?

by Courier? ☐ UPS ☐ DHL ☐ FedEx ☐ Lone Star

Temperature Upon Receipt: 5-7 °C Factor 1.2



**Petroleum Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701**

**Phone: 432-686-7235**

**Company Name** \_\_\_\_\_ **Dean** \_\_\_\_\_

**Company Address:** 12600 W/CR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-288-0920

### Sampler Signature

**(lab use only)**

ORDER #: 0122010

**e-mail:**

syw@areynolds@deandigs.com  
jeffkindley@deandigs.com  
keavlanlongee@deanequib.com

Report Format: ☒ Standard ☐ TRRP ☐ N-Des

elizabethstuart@deandigs.com

PO #: SRS # Artesia Gathering Kennel.ctm

Project Loc: Eddy County, NM

Project #: PF-2013

Project Name: Plains Artesia East

Page 113 of 115

[illegible]





## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-6926

Sampler Signature: *[Signature]*

(lab use only)

ORDER #: 0123610

Fax No:

e-mail:

syvialareynolds@deandigs.com  
jeffkindley@deandigs.com  
kavianlongee@deanequin.com

Project Name: Plains Artesia East

Project #: PP-2075

Project Loc: Eddy County, NM

PO #: SES # Artesia Gathering Receptor

Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
elizabethstuart@deandigs.com

Analyze For:  
Ammonia & Nitrate  
pH

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250 ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Requested by:

Date

Time

Received by:

Date

Time

Requested by:

Date

Time

Received by:

Date

Time

Requested by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?  
VOCs Free of Headspace?  
Labels on containers(s)  
Custody seals on containers(s)  
Custody seals on cooler(s)  
Sample Hand Delivered  
by Sampler/Client Rep.?  
by Courier? UPS DHL FedEx  
Temperature Upon Receipt:  
Received: 8:19 °C  
Adjusted: 0.2 °C Factor

N N N N N  
N N N N N  
N N N N N  
N N N N N  
N N N N N

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0K09003



**NELAP/TCEQ # T104704516-17-8**

Report Date: 11/13/20



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 @ 4'	0K09003-01	Soil	11/06/20 10:25	11-09-2020 08:12
BH-3 @ 4'	0K09003-02	Soil	11/06/20 10:20	11-09-2020 08:12
BH-9 @ 4'	0K09003-03	Soil	11/06/20 10:15	11-09-2020 08:12
BH-14 @ 4'	0K09003-04	Soil	11/05/20 10:00	11-09-2020 08:12
BH-15 @ 4'	0K09003-05	Soil	11/05/20 10:05	11-09-2020 08:12
BH-17B @ 3'	0K09003-06	Soil	11/05/20 09:25	11-09-2020 08:12
BH-20 @ 4'	0K09003-07	Soil	11/05/20 10:15	11-09-2020 08:12
BH-21 @ 4'	0K09003-08	Soil	11/05/20 10:10	11-09-2020 08:12
BH-26 @ 4'	0K09003-09	Soil	11/05/20 10:20	11-09-2020 08:12
BH-27 @ 4'	0K09003-10	Soil	11/05/20 10:25	11-09-2020 08:12
BH-32 @ 4'	0K09003-11	Soil	11/05/20 10:35	11-09-2020 08:12
BH-33 @ 4'	0K09003-12	Soil	11/05/20 10:30	11-09-2020 08:12
BH-37 @ 4'	0K09003-13	Soil	11/05/20 10:40	11-09-2020 08:12
BH-38 @ 4'	0K09003-14	Soil	11/05/20 10:45	11-09-2020 08:12
BH-39 @ 4'	0K09003-15	Soil	11/05/20 10:50	11-09-2020 08:12
BH-45 @ 4'	0K09003-16	Soil	11/05/20 10:55	11-09-2020 08:12
BH-46 @ 4'	0K09003-17	Soil	11/05/20 11:10	11-09-2020 08:12
BH-47 @ 4'	0K09003-18	Soil	11/05/20 11:05	11-09-2020 08:12
BH-48 @ 4'	0K09003-19	Soil	11/05/20 11:00	11-09-2020 08:12
BH-49 @ 4'	0K09003-20	Soil	11/05/20 11:25	11-09-2020 08:12
BH-50 @ 4'	0K09003-21	Soil	11/05/20 11:30	11-09-2020 08:12
BH-51 @ 4'	0K09003-22	Soil	11/05/20 11:40	11-09-2020 08:12
BH-52 @ 4'	0K09003-23	Soil	11/05/20 11:35	11-09-2020 08:12
BH-53 @ 4'	0K09003-24	Soil	11/06/20 09:15	11-09-2020 08:12
BH-54 @ 4'	0K09003-25	Soil	11/06/20 09:20	11-09-2020 08:12
BH-55 @ 4'	0K09003-26	Soil	11/06/20 09:45	11-09-2020 08:12
BH-56 @ 4'	0K09003-27	Soil	11/06/20 09:50	11-09-2020 08:12
BH-57 @ 4'	0K09003-28	Soil	11/06/20 09:55	11-09-2020 08:12
BH-58 @ 4'	0K09003-29	Soil	11/06/20 09:40	11-09-2020 08:12
BH-59 @ 4'	0K09003-30	Soil	11/05/20 09:10	11-09-2020 08:12
BH-60 @ 4'	0K09003-31	Soil	11/05/20 11:45	11-09-2020 08:12
BH-61 @ 4'	0K09003-32	Soil	11/06/20 10:00	11-09-2020 08:12
BH-62 @ 4'	0K09003-33	Soil	11/06/20 09:35	11-09-2020 08:12
BH-63 @ 4'	0K09003-34	Soil	11/06/20 09:05	11-09-2020 08:12

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-64 @ 4'	0K09003-35	Soil	11/05/20 11:20	11-09-2020 08:12
BH-65 @ 4'	0K09003-36	Soil	11/06/20 10:05	11-09-2020 08:12
BH-66 @ 4'	0K09003-37	Soil	11/06/20 09:30	11-09-2020 08:12
BH-67 @ 4'	0K09003-38	Soil	11/06/20 09:00	11-09-2020 08:12
BH-68 @ 4'	0K09003-39	Soil	11/05/20 11:50	11-09-2020 08:12
BH-69 @ 4'	0K09003-40	Soil	11/06/20 10:10	11-09-2020 08:12
BH-70 @ 4'	0K09003-41	Soil	11/06/20 09:25	11-09-2020 08:12
BH-81 @ 4'	0K09003-42	Soil	11/06/20 11:45	11-09-2020 08:12
BH-82 @ 3'	0K09003-43	Soil	11/05/20 09:00	11-09-2020 08:12
BH-83 @ 3'	0K09003-44	Soil	11/05/20 09:05	11-09-2020 08:12
BH-84 @ 3'	0K09003-45	Soil	11/05/20 09:10	11-09-2020 08:12
BH-85 @ 3'	0K09003-46	Soil	11/05/20 09:15	11-09-2020 08:12
BH-86 @ 4'	0K09003-47	Soil	11/05/20 09:30	11-09-2020 08:12
BH-87 @ 4'	0K09003-48	Soil	11/05/20 09:35	11-09-2020 08:12
BH-88 @ 4'	0K09003-49	Soil	11/06/20 10:30	11-09-2020 08:12
BH-89 @ 4'	0K09003-50	Soil	11/06/20 10:35	11-09-2020 08:12
BH-90 @ 4'	0K09003-51	Soil	11/06/20 10:40	11-09-2020 08:12
BH-91 @ 4'	0K09003-52	Soil	11/06/20 10:45	11-09-2020 08:12
BH-92 @ 4'	0K09003-53	Soil	11/06/20 10:50	11-09-2020 08:12
BH-93 @ 4'	0K09003-54	Soil	11/06/20 11:40	11-09-2020 08:12
East SW B @ 3.5'	0K09003-55	Soil	11/06/20 11:00	11-09-2020 08:12
East SW D @ 3.5'	0K09003-56	Soil	11/06/20 10:55	11-09-2020 08:12
East SW 3 @ 3.5'	0K09003-57	Soil	11/06/20 11:05	11-09-2020 08:12
North SW B1A @ 2'	0K09003-58	Soil	11/06/20 11:10	11-09-2020 08:12
North SW B2A @ 2'	0K09003-59	Soil	11/06/20 11:15	11-09-2020 08:12
North SW C @ 2'	0K09003-60	Soil	11/06/20 11:50	11-09-2020 08:12
North Wall C @ 3.5'	0K09003-61	Soil	11/06/20 11:20	11-09-2020 08:12
South SW B @ 3.5'	0K09003-62	Soil	11/05/20 09:45	11-09-2020 08:12
South SW C @ 2'	0K09003-63	Soil	11/06/20 12:00	11-09-2020 08:12
South SW C @ 3.5'	0K09003-64	Soil	11/05/20 09:50	11-09-2020 08:12
South SW D @ 3.5'	0K09003-65	Soil	11/06/20 11:25	11-09-2020 08:12
West SW @ 2'	0K09003-66	Soil	11/06/20 11:30	11-09-2020 08:12
West SW B1A @ 1.5'	0K09003-67	Soil	11/05/20 09:20	11-09-2020 08:12
West SW B2A @ 2'	0K09003-68	Soil	11/05/20 09:40	11-09-2020 08:12

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West SW C @ 2'	0K09003-69	Soil	11/06/20 11:55	11-09-2020 08:12
West SW C @ 3.5'	0K09003-70	Soil	11/05/20 09:55	11-09-2020 08:12

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-1 @ 4'**  
**0K09003-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C12-C28	26.9	25.5	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		103 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		110 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>26.9</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-3 @ 4'**  
**0K09003-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>45.4</b>	25.3	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>37.2</b>	25.3	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		107 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>82.6</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-9 @ 4'**  
**0K09003-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>381</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>220</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		90.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>601</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-14 @ 4'**  
**0K09003-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
------------	-----	-----	---	---	---------	----------	----------	------------

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	585	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	320	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		91.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>905</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-15 @ 4'**  
**0K09003-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
------------	-----	-----	---	---	---------	----------	----------	------------

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	29.0	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		88.1 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		97.5 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>29.0</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-17B @ 3'**  
**0K09003-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.3 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		108 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-20 @ 4'**  
**0K09003-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	73.7	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	42.2	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		93.3 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		106 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>116</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-21 @ 4'**  
**0K09003-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>226</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>107</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>332</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-26 @ 4'**  
**0K09003-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>218</b>	25.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>120</b>	25.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.9 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		107 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>338</b>	25.0	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-27 @ 4'**  
**0K09003-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>252</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>131</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		97.3 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>383</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-32 @ 4'**  
**0K09003-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>698</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>382</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		97.5 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1080</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-33 @ 4'**  
**0K09003-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>56.2</b>	26.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>36.8</b>	26.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		118 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>93.0</b>	26.0	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-37 @ 4'**  
**0K09003-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>272</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>151</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>422</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-38 @ 4'**  
**0K09003-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.9 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-39 @ 4'**  
**0K09003-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	33.6	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		89.1 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>33.6</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-45 @ 4'**  
**0K09003-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>219</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>121</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		90.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>340</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-46 @ 4'**  
**0K09003-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>449</b>	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>217</b>	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		91.9 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>665</b>	25.8	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-47 @ 4'**  
**0K09003-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-48 @ 4'**  
**0K09003-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>146</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>88.1</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>234</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-49 @ 4'**  
**0K09003-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	404	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	319	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		106 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		123 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	723	25.8	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-50 @ 4'**  
**0K09003-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	204	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	113	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		81.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		98.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>317</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-51 @ 4'**  
**0K09003-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	6.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	26.6	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	26.6	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.7 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		116 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-52 @ 4'**  
**0K09003-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M	
>C12-C28	228	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M	
>C28-C35	171	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		142 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>399</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-53 @ 4'**  
**0K09003-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	4.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P0K1016	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	26.0	mg/kg dry	1	P0K1016	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	26.0	mg/kg dry	1	P0K1016	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		94.8 %	70-130		P0K1016	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-54 @ 4'**  
**0K09003-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>27.0</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<b>&gt;C12-C28</b>	<b>348</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<b>&gt;C28-C35</b>	<b>228</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		97.1 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		117 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>603</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-55 @ 4'**  
**0K09003-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	37.4	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	26.0	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		91.1 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>63.3</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-56 @ 4'**  
**0K09003-27 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	497	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	262	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		89.8 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>759</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-57 @ 4'**  
**0K09003-28 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	207	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	127	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		90.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>334</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-58 @ 4'**  
**0K09003-29 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	239	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	153	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		93.4 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>392</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-59 @ 4'**  
**0K09003-30 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>109</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>64.7</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		82.9 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		99.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>174</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-60 @ 4'**  
**0K09003-31 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.0 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-61 @ 4'**  
**0K09003-32 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>135</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>80.6</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		99.7 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		117 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>215</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-62 @ 4'**  
**0K09003-33 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>225</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>141</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		101 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		120 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>365</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-63 @ 4'**  
**0K09003-34 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>118</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>59.4</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		119 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>177</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-64 @ 4'**  
**0K09003-35 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		95.2 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-65 @ 4'**  
**0K09003-36 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	62.7	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	44.9	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		95.6 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>108</b>	25.8	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-66 @ 4'**  
**0K09003-37 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-67 @ 4'**  
**0K09003-38 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		88.0 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-68 @ 4'**  
**0K09003-39 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	31.6	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		87.4 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>31.6</b>	25.8	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-69 @ 4'**  
**0K09003-40 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>255</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>150</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.7 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		119 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>405</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-70 @ 4'**  
**0K09003-41 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		88.1 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-81 @ 4'**  
**0K09003-42 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		87.4 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-82 @ 3'**  
**0K09003-43 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

<b>Benzene</b>	<b>0.00317</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00634</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00783</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00401</b>	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>74.2</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		114 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-83 @ 3'**  
**0K09003-44 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.21	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-84 @ 3'**  
**0K09003-45 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00174</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.16</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-85 @ 3'**  
**0K09003-46 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.38	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-86 @ 4'**  
**0K09003-47 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

<b>Benzene</b>	<b>0.00225</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0245</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00904</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00301</b>	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>ND</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>75-125</i>		<i>P0K1006</i>	<i>11/10/20</i>	<i>11/11/20</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>108 %</i>	<i>75-125</i>		<i>P0K1006</i>	<i>11/10/20</i>	<i>11/11/20</i>	<i>EPA 8021B</i>	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.54</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>235</b>	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>106</b>	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>116 %</i>	<i>70-130</i>		<i>P0K1017</i>	<i>11/10/20</i>	<i>11/12/20</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>123 %</i>	<i>70-130</i>		<i>P0K1017</i>	<i>11/10/20</i>	<i>11/12/20</i>	<i>TPH 8015M</i>	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>340</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-87 @ 4'**  
**0K09003-48 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00405</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00701</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00286</b>	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>11.9</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		152 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC1
Surrogate: o-Terphenyl		154 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC1
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-88 @ 4'**  
**0K09003-49 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.69	1.02	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-89 @ 4'**  
**0K09003-50 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.95	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	181	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	91.2	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	272	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-90 @ 4'**  
**0K09003-51 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.59	1.02	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	291	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	142	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>433</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-91 @ 4'**  
**0K09003-52 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	10.3	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-92 @ 4'**  
**0K09003-53 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	16.0	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-93 @ 4'**  
**0K09003-54 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.41	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW B @ 3.5'**  
**0K09003-55 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.34	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	208	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	89.1	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	298	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW D @ 3.5'**  
**0K09003-56 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	10.1	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW 3 @ 3.5'**  
**0K09003-57 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.37	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B1A @ 2'**  
**0K09003-58 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.68	1.00	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B2A @ 2'**  
**0K09003-59 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.38	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW C @ 2'**  
**0K09003-60 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.57	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	66.1	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	36.5	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	103	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North Wall C @ 3.5'****0K09003-61 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.****Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.62	1.02	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	205	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	117	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		75.1 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		88.4 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>323</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW B @ 3.5'**  
**0K09003-62 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0117</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0179</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00775</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00175</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.18</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.6 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW C @ 2'**  
**0K09003-63 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	19.0	1.00	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.8 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW C @ 3.5'**  
**0K09003-64 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00233</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00780</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00329</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.85</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW D @ 3.5'**  
**0K09003-65 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.06	1.02	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.4 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW @ 2'**  
**0K09003-66 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.83	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.1 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B1A @ 1.5'**  
**0K09003-67 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

<b>Benzene</b>	<b>0.0132</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0346</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0157</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00613</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00124</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.84</b>	1.00	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		90.6 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		97.8 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B2A @ 2'**  
**0K09003-68 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00132</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.25</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.2 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW C @ 2'**  
**0K09003-69 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.18	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.5 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW C @ 3.5'**  
**0K09003-70 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00836</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0137</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00610</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00128</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.88</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1006 - General Preparation (GC)****Blank (P0K1006-BLK1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

**LCS (P0K1006-BS1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0853	0.00100	mg/kg wet	0.100		85.3	80-120			
Toluene	0.0817	0.00100	"	0.100		81.7	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.2	80-120			
Xylene (o)	0.0926	0.00100	"	0.100		92.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	75-125			

**LCS Dup (P0K1006-BSD1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0830	0.00100	mg/kg wet	0.100		83.0	80-120	2.82	20	
Toluene	0.0806	0.00100	"	0.100		80.6	80-120	1.33	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	2.67	20	
Xylene (p/m)	0.163	0.00200	"	0.200		81.7	80-120	1.85	20	
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120	4.88	20	
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.120		113	75-125			

**Calibration Blank (P0K1006-CCB1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

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Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1006 - General Preparation (GC)****Calibration Blank (P0K1006-CCB2)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			

**Calibration Blank (P0K1006-CCB3)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			

**Calibration Check (P0K1006-CCV1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0867	0.00100	mg/kg wet	0.100		86.7	80-120			
Toluene	0.0800	0.00100	"	0.100		80.0	80-120			
Ethylbenzene	0.0914	0.00100	"	0.100		91.4	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120			
Xylene (o)	0.0934	0.00100	"	0.100		93.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

**Calibration Check (P0K1006-CCV2)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0888	0.00100	mg/kg wet	0.100		88.8	80-120			
Toluene	0.0804	0.00100	"	0.100		80.4	80-120			
Ethylbenzene	0.0905	0.00100	"	0.100		90.5	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	80-120			
Xylene (o)	0.0910	0.00100	"	0.100		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		107	75-125			

Permian Basin Environmental Lab, L.P.

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Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1006 - General Preparation (GC)****Calibration Check (P0K1006-CCV3)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0887	0.00100	mg/kg wet	0.100		88.7	80-120			
Toluene	0.0834	0.00100	"	0.100		83.4	80-120			
Ethylbenzene	0.0935	0.00100	"	0.100		93.5	80-120			
Xylene (p/m)	0.164	0.00200	"	0.200		82.0	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		110	75-125			

**Matrix Spike (P0K1006-MS1)**

Source: 0K09002-68

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0727	0.00100	mg/kg dry	0.105	ND	69.0	80-120			QM-07
Toluene	0.0673	0.00100	"	0.105	ND	63.9	80-120			QM-07
Ethylbenzene	0.0889	0.00100	"	0.105	ND	84.5	80-120			
Xylene (p/m)	0.138	0.00200	"	0.211	ND	65.3	80-120			QM-07
Xylene (o)	0.0720	0.00100	"	0.105	ND	68.4	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.131		"	0.126		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.126		105	75-125			

**Matrix Spike Dup (P0K1006-MSD1)**

Source: 0K09002-68

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0730	0.00100	mg/kg dry	0.105	ND	69.4	80-120	0.491	20	QM-07
Toluene	0.0671	0.00100	"	0.105	ND	63.7	80-120	0.282	20	QM-07
Ethylbenzene	0.0868	0.00100	"	0.105	ND	82.5	80-120	2.41	20	
Xylene (p/m)	0.133	0.00200	"	0.211	ND	63.1	80-120	3.46	20	QM-07
Xylene (o)	0.0698	0.00100	"	0.105	ND	66.3	80-120	3.10	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.124		"	0.126		98.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.126		105	75-125			

**Batch P0K1107 - General Preparation (GC)****Blank (P0K1107-BLK1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
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Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1107 - General Preparation (GC)****LCS (P0K1107-BS1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0883	0.00100	mg/kg wet	0.100		88.3	80-120			
Toluene	0.0824	0.00100	"	0.100		82.4	80-120			
Ethylbenzene	0.0886	0.00100	"	0.100		88.6	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		87.2	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	75-125			

**LCS Dup (P0K1107-BS1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0877	0.00100	mg/kg wet	0.100		87.7	80-120	0.682	20	
Toluene	0.0806	0.00100	"	0.100		80.6	80-120	2.23	20	
Ethylbenzene	0.0852	0.00100	"	0.100		85.2	80-120	3.99	20	
Xylene (p/m)	0.173	0.00200	"	0.200		86.6	80-120	0.714	20	
Xylene (o)	0.0951	0.00100	"	0.100		95.1	80-120	0.506	20	
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

**Calibration Blank (P0K1107-CCB1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

**Calibration Blank (P0K1107-CCB2)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1107 - General Preparation (GC)****Calibration Blank (P0K1107-CCB3)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		100	75-125			

**Calibration Check (P0K1107-CCV1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0883	0.00100	mg/kg wet	0.100		88.3	80-120			
Toluene	0.0805	0.00100	"	0.100		80.5	80-120			
Ethylbenzene	0.0931	0.00100	"	0.100		93.1	80-120			
Xylene (p/m)	0.168	0.00200	"	0.200		83.9	80-120			
Xylene (o)	0.0927	0.00100	"	0.100		92.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	75-125			

**Calibration Check (P0K1107-CCV2)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0906	0.00100	mg/kg wet	0.100		90.6	80-120			
Toluene	0.0818	0.00100	"	0.100		81.8	80-120			
Ethylbenzene	0.0933	0.00100	"	0.100		93.3	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.6	80-120			
Xylene (o)	0.0951	0.00100	"	0.100		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	75-125			

**Calibration Check (P0K1107-CCV3)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0933	0.00100	mg/kg wet	0.100		93.3	80-120			
Toluene	0.0830	0.00100	"	0.100		83.0	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		87.8	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	75-125			

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1107 - General Preparation (GC)**

<b>Matrix Spike (P0K1107-MS1)</b>		<b>Source: 0K09003-58</b>			<b>Prepared &amp; Analyzed: 11/11/20</b>					
Benzene	0.0791	0.00100	mg/kg dry	0.100	ND	79.1	80-120			QM-07
Toluene	0.0732	0.00100	"	0.100	ND	73.2	80-120			QM-07
Ethylbenzene	0.0925	0.00100	"	0.100	ND	92.5	80-120			
Xylene (p/m)	0.142	0.00200	"	0.200	ND	71.0	80-120			QM-07
Xylene (o)	0.0750	0.00100	"	0.100	ND	75.0	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

<b>Matrix Spike Dup (P0K1107-MSD1)</b>		<b>Source: 0K09003-58</b>			<b>Prepared &amp; Analyzed: 11/11/20</b>					
Benzene	0.0795	0.00100	mg/kg dry	0.100	ND	79.5	80-120	0.454	20	QM-07
Toluene	0.0725	0.00100	"	0.100	ND	72.5	80-120	1.03	20	QM-07
Ethylbenzene	0.0892	0.00100	"	0.100	ND	89.2	80-120	3.68	20	
Xylene (p/m)	0.144	0.00200	"	0.200	ND	71.9	80-120	1.28	20	QM-07
Xylene (o)	0.0684	0.00100	"	0.100	ND	68.4	80-120	9.22	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

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Project Manager: Sylwia Reynolds

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1007 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0K1007-BLK1)**

Prepared &amp; Analyzed: 11/10/20

% Moisture	ND	0.1	%
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**Blank (P0K1007-BLK2)**

Prepared &amp; Analyzed: 11/10/20

% Moisture	ND	0.1	%
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**Blank (P0K1007-BLK3)**

Prepared &amp; Analyzed: 11/10/20

% Moisture	ND	0.1	%
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**Blank (P0K1007-BLK4)**

Prepared &amp; Analyzed: 11/10/20

% Moisture	ND	0.1	%
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**Blank (P0K1007-BLK5)**

Prepared &amp; Analyzed: 11/10/20

% Moisture	ND	0.1	%
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**Blank (P0K1007-BLK6)**

Prepared &amp; Analyzed: 11/10/20

% Moisture	ND	0.1	%
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**Blank (P0K1007-BLK7)**

Prepared &amp; Analyzed: 11/10/20

% Moisture	ND	0.1	%
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**Duplicate (P0K1007-DUP1)****Source: 0K09001-10**

Prepared &amp; Analyzed: 11/10/20

% Moisture	14.0	0.1	%	14.0	0.00	20
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**Duplicate (P0K1007-DUP2)****Source: 0K09002-16**

Prepared &amp; Analyzed: 11/10/20

% Moisture	4.0	0.1	%	3.0	28.6	20	R3
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**Duplicate (P0K1007-DUP3)****Source: 0K09002-26**

Prepared &amp; Analyzed: 11/10/20

% Moisture	3.0	0.1	%	3.0	0.00	20
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1007 - \*\*\* DEFAULT PREP \*\*\***

<b>Duplicate (P0K1007-DUP4)</b>	<b>Source: 0K09002-41</b>		Prepared & Analyzed: 11/10/20							
% Moisture	9.0	0.1	%		7.0			25.0	20	R3
<b>Duplicate (P0K1007-DUP5)</b>	<b>Source: 0K09002-51</b>		Prepared & Analyzed: 11/10/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0K1007-DUP6)</b>	<b>Source: 0K09002-66</b>		Prepared & Analyzed: 11/10/20							
% Moisture	8.0	0.1	%		9.0			11.8	20	
<b>Duplicate (P0K1007-DUP7)</b>	<b>Source: 0K09003-04</b>		Prepared & Analyzed: 11/10/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P0K1007-DUP8)</b>	<b>Source: 0K09003-19</b>		Prepared & Analyzed: 11/10/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0K1007-DUP9)</b>	<b>Source: 0K09003-29</b>		Prepared & Analyzed: 11/10/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0K1007-DUPA)</b>	<b>Source: 0K09003-44</b>		Prepared & Analyzed: 11/10/20							
% Moisture	ND	0.1	%		1.0			200	20	R3
<b>Duplicate (P0K1007-DUPB)</b>	<b>Source: 0K09003-54</b>		Prepared & Analyzed: 11/10/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P0K1007-DUPC)</b>	<b>Source: 0K09003-69</b>		Prepared & Analyzed: 11/10/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P0K1007-DUPD)</b>	<b>Source: 0K09007-09</b>		Prepared & Analyzed: 11/10/20							
% Moisture	16.0	0.1	%		16.0			0.00	20	

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Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1101 - \*\*\* DEFAULT PREP \*\*\*****LCS (P0K1101-BS1)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	433	1.00	mg/kg wet	400		108	80-120			
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**LCS Dup (P0K1101-BSD1)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	436	1.00	mg/kg wet	400		109	80-120	0.840	20	
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**Calibration Check (P0K1101-CCV1)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	22.0		mg/kg	20.0		110	0-200			
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**Calibration Check (P0K1101-CCV2)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	22.1		mg/kg	20.0		111	0-200			
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**Calibration Check (P0K1101-CCV3)**

Prepared: 11/11/20 Analyzed: 11/13/20

Chloride	22.6		mg/kg	20.0		113	0-200			
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**Matrix Spike (P0K1101-MS1)**

Source: 0K09002-69

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	645	1.03	mg/kg dry	515	52.1	115	80-120			
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**Matrix Spike (P0K1101-MS2)**

Source: 0K09003-49

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	535	1.02	mg/kg dry	510	8.69	103	80-120			
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**Matrix Spike Dup (P0K1101-MSD1)**

Source: 0K09002-69

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	609	1.03	mg/kg dry	515	52.1	108	80-120	5.84	20	
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**Matrix Spike Dup (P0K1101-MSD2)**

Source: 0K09003-49

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	543	1.02	mg/kg dry	510	8.69	105	80-120	1.60	20	
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**Batch P0K1102 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0K1102-BLK1)**

Prepared: 11/11/20 Analyzed: 11/13/20

Chloride	ND	1.00	mg/kg wet							
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Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P0K1102 - *** DEFAULT PREP ***</b>										
<b>LCS (P0K1102-BS1)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	443	1.00	mg/kg wet	400		111	80-120			
<b>LCS Dup (P0K1102-BSD1)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	447	1.00	mg/kg wet	400		112	80-120	0.899	20	
<b>Calibration Check (P0K1102-CCV1)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	22.6		mg/kg	20.0		113	0-200			
<b>Calibration Check (P0K1102-CCV2)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	22.1		mg/kg	20.0		111	0-200			
<b>Calibration Check (P0K1102-CCV3)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
<b>Matrix Spike (P0K1102-MS1)</b>		<b>Source: 0K09003-59</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	522	1.01	mg/kg dry	505	8.38	102	80-120			
<b>Matrix Spike (P0K1102-MS2)</b>		<b>Source: 0K09003-69</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	520	1.01	mg/kg dry	505	5.18	102	80-120			
<b>Matrix Spike Dup (P0K1102-MSD1)</b>		<b>Source: 0K09003-59</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	558	1.01	mg/kg dry	505	8.38	109	80-120	6.71	20	
<b>Matrix Spike Dup (P0K1102-MSD2)</b>		<b>Source: 0K09003-69</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	547	1.01	mg/kg dry	505	5.18	107	80-120	5.03	20	

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Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1011 - TX 1005****Blank (P0K1011-BLK1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.3		"	100		83.3	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			

**LCS (P0K1011-BS1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	871	25.0	mg/kg wet	1000		87.1	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	48.9		"	50.0		97.8	70-130			

**LCS Dup (P0K1011-BSD1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	822	25.0	mg/kg wet	1000		82.2	75-125	5.77	20	
>C12-C28	1020	25.0	"	1000		102	75-125	7.03	20	
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.1	70-130			

**Calibration Check (P0K1011-CCV1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	446	25.0	mg/kg wet	500		89.1	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	92.0		"	100		92.0	70-130			
Surrogate: o-Terphenyl	45.5		"	50.0		91.1	70-130			

**Calibration Check (P0K1011-CCV2)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	482	25.0	mg/kg wet	500		96.4	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			

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Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1011 - TX 1005****Calibration Check (P0K1011-CCV3)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	443	25.0	mg/kg wet	500		88.7	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	90.6		"	100		90.6	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.8	70-130			

**Matrix Spike (P0K1011-MS1)**

Source: 0K09003-70

Prepared &amp; Analyzed: 11/10/20

C6-C12	996	25.3	mg/kg dry	1010	ND	98.6	75-125			
>C12-C28	1220	25.3	"	1010	ND	121	75-125			
Surrogate: 1-Chlorooctane	95.6		"	101		94.7	70-130			
Surrogate: o-Terphenyl	53.8		"	50.5		107	70-130			

**Matrix Spike Dup (P0K1011-MSD1)**

Source: 0K09003-70

Prepared &amp; Analyzed: 11/10/20

C6-C12	934	25.3	mg/kg dry	1010	ND	92.5	75-125	6.39	20	
>C12-C28	1160	25.3	"	1010	ND	115	75-125	4.99	20	
Surrogate: 1-Chlorooctane	115		"	101		114	70-130			
Surrogate: o-Terphenyl	55.2		"	50.5		109	70-130			

**Batch P0K1014 - TX 1005****Blank (P0K1014-BLK1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	55.3		"	50.0		111	70-130			

**LCS (P0K1014-BS1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	913	25.0	mg/kg wet	1000		91.3	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	53.9		"	50.0		108	70-130			

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Project: Plains Artesia Gathering East  
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Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1014 - TX 1005****LCS Dup (P0K1014-BSD1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	927	25.0	mg/kg wet	1000		92.7	75-125	1.55	20	
>C12-C28	1100	25.0	"	1000		110	75-125	0.919	20	
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			

**Calibration Check (P0K1014-CCV1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	474	25.0	mg/kg wet	500		94.9	85-115			
>C12-C28	512	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			

**Calibration Check (P0K1014-CCV2)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	488	25.0	mg/kg wet	500		97.7	85-115			
>C12-C28	516	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			

**Calibration Check (P0K1014-CCV3)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	506	25.0	mg/kg wet	500		101	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

**Matrix Spike (P0K1014-MS1)**

Source: 0K09002-72

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	1040	25.3	mg/kg dry	1010	ND	103	75-125			
>C12-C28	1220	25.3	"	1010	28.1	118	75-125			
Surrogate: 1-Chlorooctane	117		"	101		116	70-130			
Surrogate: o-Terphenyl	58.4		"	50.5		116	70-130			

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Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1014 - TX 1005**

<b>Matrix Spike Dup (P0K1014-MSD1)</b>	<b>Source: 0K09002-72</b>			Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	1030	25.3	mg/kg dry	1010	ND	102	75-125	0.574	20	
>C12-C28	1230	25.3	"	1010	28.1	119	75-125	0.836	20	
Surrogate: 1-Chlorooctane	116		"	101		115	70-130			
Surrogate: o-Terphenyl	58.5		"	50.5		116	70-130			

**Batch P0K1015 - TX 1005**

<b>Blank (P0K1015-BLK1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	93.0		"	100		93.0	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			

<b>LCS (P0K1015-BS1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	841	25.0	mg/kg wet	1000		84.1	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

<b>LCS Dup (P0K1015-BSD1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	835	25.0	mg/kg wet	1000		83.5	75-125	0.641	20	
>C12-C28	1040	25.0	"	1000		104	75-125	1.80	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.7		"	50.0		99.3	70-130			

<b>Calibration Check (P0K1015-CCV1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	436	25.0	mg/kg wet	500		87.2	85-115			
>C12-C28	484	25.0	"	500		96.9	85-115			
Surrogate: 1-Chlorooctane	91.4		"	100		91.4	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.5	70-130			

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Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1015 - TX 1005****Calibration Check (P0K1015-CCV2)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	494	25.0	mg/kg wet	500		98.7	85-115			
>C12-C28	528	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			

**Matrix Spike (P0K1015-MS1)**

Source: 0K09003-20

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	940	25.8	mg/kg dry	1030	14.7	89.7	75-125			
>C12-C28	1260	25.8	"	1030	404	83.4	75-125			
Surrogate: 1-Chlorooctane	114		"	103		110	70-130			
Surrogate: o-Terphenyl	54.9		"	51.5		106	70-130			

**Matrix Spike Dup (P0K1015-MSD1)**

Source: 0K09003-20

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	900	25.8	mg/kg dry	1030	14.7	85.9	75-125	4.37	20	
>C12-C28	1260	25.8	"	1030	404	83.1	75-125	0.379	20	
Surrogate: 1-Chlorooctane	109		"	103		106	70-130			
Surrogate: o-Terphenyl	52.5		"	51.5		102	70-130			

**Batch P0K1016 - TX 1005****Blank (P0K1016-BLK1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.1		"	100		89.1	70-130			
Surrogate: o-Terphenyl	50.5		"	50.0		101	70-130			

**LCS (P0K1016-BS1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	966	25.0	mg/kg wet	1000		96.6	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	57.4		"	50.0		115	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1016 - TX 1005****LCS Dup (P0K1016-BSD1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	891	25.0	mg/kg wet	1000		89.1	75-125	8.13	20	
>C12-C28	1070	25.0	"	1000		107	75-125	7.59	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

**Calibration Check (P0K1016-CCV1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	454	25.0	mg/kg wet	500		90.8	85-115			
>C12-C28	475	25.0	"	500		95.0	85-115			
Surrogate: 1-Chlorooctane	94.4		"	100		94.4	70-130			
Surrogate: o-Terphenyl	47.6		"	50.0		95.1	70-130			

**Calibration Check (P0K1016-CCV2)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	504	25.0	mg/kg wet	500		101	85-115			
>C12-C28	554	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			

**Calibration Check (P0K1016-CCV3)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

**Matrix Spike (P0K1016-MS1)**

Source: 0K09003-40

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	996	25.3	mg/kg dry	1010	17.4	96.9	75-125			
>C12-C28	1250	25.3	"	1010	255	98.7	75-125			
Surrogate: 1-Chlorooctane	90.1		"	101		89.2	70-130			
Surrogate: o-Terphenyl	58.8		"	50.5		116	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0K1016 - TX 1005**

<b>Matrix Spike Dup (P0K1016-MSD1)</b>	<b>Source: 0K09003-40</b>			Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	964	25.3	mg/kg dry	1010	17.4	93.7	75-125	3.34	20	
>C12-C28	1240	25.3	"	1010	255	97.9	75-125	0.809	20	
Surrogate: 1-Chlorooctane	114		"	101		113	70-130			
Surrogate: o-Terphenyl	54.4		"	50.5		108	70-130			

**Batch P0K1017 - TX 1005**

<b>Blank (P0K1017-BLK1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130			

<b>LCS (P0K1017-BS1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	941	25.0	mg/kg wet	1000		94.1	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	70-130			

<b>LCS Dup (P0K1017-BSD1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	917	25.0	mg/kg wet	1000		91.7	75-125	2.55	20	
>C12-C28	1090	25.0	"	1000		109	75-125	2.40	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	56.7		"	50.0		113	70-130			

<b>Calibration Check (P0K1017-CCV1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	491	25.0	mg/kg wet	500		98.2	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0K1017 - TX 1005****Calibration Check (P0K1017-CCV2)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	494	25.0	mg/kg wet	500		98.7	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

**Calibration Check (P0K1017-CCV3)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	453	25.0	mg/kg wet	500		90.6	85-115			
>C12-C28	479	25.0	"	500		95.8	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.6	70-130			

**Matrix Spike (P0K1017-MS1)**

Source: 0K09003-60

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	1010	25.3	mg/kg dry	1010	19.2	98.4	75-125			
>C12-C28	1150	25.3	"	1010	66.1	108	75-125			
Surrogate: 1-Chlorooctane	123		"	101		122	70-130			
Surrogate: o-Terphenyl	58.4		"	50.5		116	70-130			

**Matrix Spike Dup (P0K1017-MSD1)**

Source: 0K09003-60

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	1030	25.3	mg/kg dry	1010	19.2	99.8	75-125	1.43	20	
>C12-C28	1170	25.3	"	1010	66.1	109	75-125	1.62	20	
Surrogate: 1-Chlorooctane	126		"	101		125	70-130			
Surrogate: o-Terphenyl	59.5		"	50.5		118	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

S-GC1 Surrogate recovery outside of control limits. A second analysis confirmed the original results..

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

11/13/2020

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean 12600 W County Rd 91 Midland TX, 79707	Project: Plains Artesia Gathering East Project Number: PP-2075 Project Manager: Sylwia Reynolds	Fax:
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If you have received this material in error, please notify us immediately at 432-686-7235.

**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

PG. 1 OF 1

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: Joe Belloc

Fax No:

e-mail:

sylviareynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

Project Name: Artesia Gathering East

Project #: PP-2075

Project Loc: Eddy Co, NM

WORK ORDER #: SRS: Artesia Gathering East Historical

Report Format: ☒ Standard ☐ TRRP ☐ NPDESelizabethstuart@deandigs.com  
algroves@paalp.com

Analyze For:

ORDER #: OK09003

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250, ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT
	BH-1 @ 4'	4'	4'	11/6/20	1025		1	X																					
	BH-3 @ 4'	4'	4'	11/6/20	1020		1	X																					
	BH-7 @ 4'	4'	4'	11/6/20	1015		1	X																					
	BH-14 @ 4'	4'	4'	11/5/20	1000		1	X																					
	BH-15 @ 4'	4'	4'	11/5/20	1005		1	X																					
	BH-17 @ 3'	3'	3'	11/5/20	0925		1	X																					
	BH-20 @ 4'	4'	4'		1015		1	X																					
	BH-21 @ 4'	4'	4'		1010		1	X																					
	BH-26 @ 4'	4'	4'		1020		1	X																					
	BH-27 @ 4'	4'	4'		1025		1	X																					

Special Instructions:

Reinforced by:

Reinforced by:

Reinforced by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by:

Date

Date

Date

Time

Time

Time

Laboratory Comments:

Sample Containers Intact? ☒

VOCs Free of Headspace? ☒

Labels on containers? ☒

Custody seals on containers? ☒

Custody seals on cooler(s)? ☒

Sample Hand Delivered by Sampler/Client Rep.? ☒

by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star

Temperature Upon Receipt: ☒ °C ☒ °F

Adjusted: ☒

7.0 +1.0 3.0 4.0

**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Pg. 2 of 7

Project Manager: Sylvia Reynolds

Project Name: Artesia Gathering East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Eddy Co, NM

City/State/Zip: Midland TX 79707

WORK ORDER #: SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joe Belloc

e-mail:

syliareynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

Analyze For:

syliareynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

(lab use only)

ORDER #: 0 K09003

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250 ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT
	BH-32@4'	4'	4'	11/5/20	1035		1	X																					
	BH-33@4'	4'	4'	11/5/20	1030		1																						
	BH-37@4'	4'	4'	11/5/20	1040		1																						
	BH-38@4'	4'	4'	11/5/20	1045		1																						
	BH-39@4'	4'	4'		1050		1																						
	BH-45@4'	4'	4'		1055		1																						
	BH-46@4'	4'	4'		1110		1																						
	BH-47@4'	4'	4'		1105		1																						
	BH-48@4'	4'	4'		1100		1																						
	BH-49@4'	4'	4'		1125		1																						

Special Instructions:

Relinquished by: Joe Belloc

Date: 11/6/20

Time: 1600

Relinquished by: Joe Belloc

Date: 11/6/20

Time: 1600

Relinquished by: Joe Belloc

Date: 11/6/20

Time: 1600

Received by: Elizabeth Stuart  
Date: 11/6/20  
Time: 1600

Received by: Elizabeth Stuart  
Date: 11/6/20  
Time: 1600

Received by: Elizabeth Stuart  
Date: 11/6/20  
Time: 1600

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) Custody seals on container(s) (Custody seals on cooler(s))

Sample Hand Delivered by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C

Adjusted: °C Factor





**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

PG 4 OF 7

Project Manager: Sylvia Reynolds

Project Name: Artesia Gathering East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Eddy Co, NM

City/State/Zip: Midland TX 79707

WORK ORDER #: SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joe Belloc

e-mail: sylviareynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

algroves@daaib.com

(lab use only)

ORDER #: 0K09003

Preservation &amp; # of Containers

Matrix

Analyze For:

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250 ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day TAT

24 hour TAT

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) intact?

Custody seals on container(s) intact?

Sample Hand Delivered by Sampler/Client Rep.?

Temperature Upon Receipt: °C

Adjusted: °C Factor

CALIN 77

**PERMIA LAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

PG. 509

Project Manager: Sylvia Reynolds

Project Name: Artesia Gathering East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Eddy Co. NM

City/State/Zip: Midland TX 79707

WORK ORDER #: SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joe Bullock

e-mail: sylvia.reynolds@deandigs.com  
jefkindley@deandigs.com  
kavianlongee@deanequip.com

Analyze For:

(lab use only)

ORDER #: OK09003

LAB # (lab use only)	
FIELD CODE	
Beginning Depth	
Ending Depth	
Date Sampled	
Time Sampled	
Field Filtered	
Total #. of Containers	
Ice	
HNO <sub>3</sub> 250 ml Poly	
HCl	
H <sub>2</sub> SO <sub>4</sub>	
NaOH	
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	
None 1L Poly	
NaOH/ZnAc	
DW=Drinking Water SL=Sludge	
GW = Groundwater S=Soil/Solid	
NP=Non-Potable Specify Other	
TPH TX1005 EXT (TEXAS)	
BTEX 8021 B	
TCLP BENZENE	
CHLORIDES	
TCLP METALS	
NORM	
PAINT FILTER	
TOX	
RCI	
pH	
TPH 8015 M (NEW MEXICO)	

Special Instructions:

Relinquished by: Joe Bullock

Date: 11/6/20

Time: 1600

Date: 4/6/20

Time: 1600

Relinquished by: Elizabeth Stuart

Date: 11/6/20

Time: 1600

Date: 4/6/20

Time: 1600

Relinquished by: Elizabeth Stuart

Date: 11/6/20

Time: 1600

Date: 4/6/20

Time: 1600

Laboratory Comments:

Sample Containers Intact? ☒VOCs Free of Headspace? ☒Labels on container(s) ☒Custody seals on container(s) ☒Custody seals on cooler(s) ☒Sample Hand Delivered by Sampler/Client Rep. ? ☒

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: ☒ C Factor

**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Pg. 60 of 71

Project Manager: Sylvia Reynolds

Project Name: Artesia Gathering East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Eddy Co, NM

City/State/Zip: Midland TX 79707

WORK ORDER #: SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joe Belloc

e-mail: sylviareynolds@deandigs.com  
leftkindley@deandigs.com  
kaylanlongee@deanequip.com

algroves@paalp.com

(lab use only)

ORDER #: 01009003

sylviareynolds@deandigs.com  
leftkindley@deandigs.com  
kaylanlongee@deanequip.com

Analyze For:

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250 ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT
		BH-96 @ 4'			4'	11/6/20	1040		1	X										X											X
		BH-71 @ 4'			↓	↓	1045		1	X										X											X
		BH-92 @ 4'			↓	↓	1050		1	X										X											X
		BH-93 @ 4'			↓	↓	1140		1	X										X											X
		East SW B @ 3 1/2'			3.5'	11/6/20	1000		1	X										X											X
		East SW D @ 3.5'			3.5'	11/6/20	1055		1	X										X											X
		East SW 3 @ 3.5'			3.5'	11/6/20	1105		1	X										X											X
		North SW B/A @ 2'			2'	↓	1110		1	X										X											X
		North SW B/A @ 2'			2'	↓	1115		1	X										X											X
		North SW C @ 2'			2'	↓	1150		1	X										X											X

Special Instructions:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C Factor

Adjusted:

7011N 210 17-C1







**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0K09003



NELAP/TCEQ # T104704516-17-8

Report Date: 11/18/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 @ 4'	0K09003-01	Soil	11/06/20 10:25	11-09-2020 08:12
BH-3 @ 4'	0K09003-02	Soil	11/06/20 10:20	11-09-2020 08:12
BH-9 @ 4'	0K09003-03	Soil	11/06/20 10:15	11-09-2020 08:12
BH-14 @ 4'	0K09003-04	Soil	11/05/20 10:00	11-09-2020 08:12
BH-15 @ 4'	0K09003-05	Soil	11/05/20 10:05	11-09-2020 08:12
BH-17B @ 3'	0K09003-06	Soil	11/05/20 09:25	11-09-2020 08:12
BH-20 @ 4'	0K09003-07	Soil	11/05/20 10:15	11-09-2020 08:12
BH-21 @ 4'	0K09003-08	Soil	11/05/20 10:10	11-09-2020 08:12
BH-26 @ 4'	0K09003-09	Soil	11/05/20 10:20	11-09-2020 08:12
BH-27 @ 4'	0K09003-10	Soil	11/05/20 10:25	11-09-2020 08:12
BH-32 @ 4'	0K09003-11	Soil	11/05/20 10:35	11-09-2020 08:12
BH-33 @ 4'	0K09003-12	Soil	11/05/20 10:30	11-09-2020 08:12
BH-37 @ 4'	0K09003-13	Soil	11/05/20 10:40	11-09-2020 08:12
BH-38 @ 4'	0K09003-14	Soil	11/05/20 10:45	11-09-2020 08:12
BH-39 @ 4'	0K09003-15	Soil	11/05/20 10:50	11-09-2020 08:12
BH-45 @ 4'	0K09003-16	Soil	11/05/20 10:55	11-09-2020 08:12
BH-46 @ 4'	0K09003-17	Soil	11/05/20 11:10	11-09-2020 08:12
BH-47 @ 4'	0K09003-18	Soil	11/05/20 11:05	11-09-2020 08:12
BH-48 @ 4'	0K09003-19	Soil	11/05/20 11:00	11-09-2020 08:12
BH-49 @ 4'	0K09003-20	Soil	11/05/20 11:25	11-09-2020 08:12
BH-50 @ 4'	0K09003-21	Soil	11/05/20 11:30	11-09-2020 08:12
BH-51 @ 4'	0K09003-22	Soil	11/05/20 11:40	11-09-2020 08:12
BH-52 @ 4'	0K09003-23	Soil	11/05/20 11:35	11-09-2020 08:12
BH-53 @ 4'	0K09003-24	Soil	11/06/20 09:15	11-09-2020 08:12
BH-54 @ 4'	0K09003-25	Soil	11/06/20 09:20	11-09-2020 08:12
BH-55 @ 4'	0K09003-26	Soil	11/06/20 09:45	11-09-2020 08:12
BH-56 @ 4'	0K09003-27	Soil	11/06/20 09:50	11-09-2020 08:12
BH-57 @ 4'	0K09003-28	Soil	11/06/20 09:55	11-09-2020 08:12
BH-58 @ 4'	0K09003-29	Soil	11/06/20 09:40	11-09-2020 08:12
BH-59 @ 4'	0K09003-30	Soil	11/05/20 09:10	11-09-2020 08:12
BH-60 @ 4'	0K09003-31	Soil	11/05/20 11:45	11-09-2020 08:12
BH-61 @ 4'	0K09003-32	Soil	11/06/20 10:00	11-09-2020 08:12
BH-62 @ 4'	0K09003-33	Soil	11/06/20 09:35	11-09-2020 08:12
BH-63 @ 4'	0K09003-34	Soil	11/06/20 09:05	11-09-2020 08:12

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-64 @ 4'	0K09003-35	Soil	11/05/20 11:20	11-09-2020 08:12
BH-65 @ 4'	0K09003-36	Soil	11/06/20 10:05	11-09-2020 08:12
BH-66 @ 4'	0K09003-37	Soil	11/06/20 09:30	11-09-2020 08:12
BH-67 @ 4'	0K09003-38	Soil	11/06/20 09:00	11-09-2020 08:12
BH-68 @ 4'	0K09003-39	Soil	11/05/20 11:50	11-09-2020 08:12
BH-69 @ 4'	0K09003-40	Soil	11/06/20 10:10	11-09-2020 08:12
BH-70 @ 4'	0K09003-41	Soil	11/06/20 09:25	11-09-2020 08:12
BH-81 @ 4'	0K09003-42	Soil	11/06/20 11:45	11-09-2020 08:12
BH-82 @ 3'	0K09003-43	Soil	11/05/20 09:00	11-09-2020 08:12
BH-83 @ 3'	0K09003-44	Soil	11/05/20 09:05	11-09-2020 08:12
BH-84 @ 3'	0K09003-45	Soil	11/05/20 09:10	11-09-2020 08:12
BH-85 @ 3'	0K09003-46	Soil	11/05/20 09:15	11-09-2020 08:12
BH-86 @ 4'	0K09003-47	Soil	11/05/20 09:30	11-09-2020 08:12
BH-87 @ 4'	0K09003-48	Soil	11/05/20 09:35	11-09-2020 08:12
BH-88 @ 4'	0K09003-49	Soil	11/06/20 10:30	11-09-2020 08:12
BH-89 @ 4'	0K09003-50	Soil	11/06/20 10:35	11-09-2020 08:12
BH-90 @ 4'	0K09003-51	Soil	11/06/20 10:40	11-09-2020 08:12
BH-91 @ 4'	0K09003-52	Soil	11/06/20 10:45	11-09-2020 08:12
BH-92 @ 4'	0K09003-53	Soil	11/06/20 10:50	11-09-2020 08:12
BH-93 @ 4'	0K09003-54	Soil	11/06/20 11:40	11-09-2020 08:12
East SW B @ 3.5'	0K09003-55	Soil	11/06/20 11:00	11-09-2020 08:12
East SW D @ 3.5'	0K09003-56	Soil	11/06/20 10:55	11-09-2020 08:12
East SW 3 @ 3.5'	0K09003-57	Soil	11/06/20 11:05	11-09-2020 08:12
North SW B1A @ 2'	0K09003-58	Soil	11/06/20 11:10	11-09-2020 08:12
North SW B2A @ 2'	0K09003-59	Soil	11/06/20 11:15	11-09-2020 08:12
North SW C @ 2'	0K09003-60	Soil	11/06/20 11:50	11-09-2020 08:12
North Wall C @ 3.5'	0K09003-61	Soil	11/06/20 11:20	11-09-2020 08:12
South SW B @ 3.5'	0K09003-62	Soil	11/05/20 09:45	11-09-2020 08:12
South SW C @ 2'	0K09003-63	Soil	11/06/20 12:00	11-09-2020 08:12
South SW C @ 3.5'	0K09003-64	Soil	11/05/20 09:50	11-09-2020 08:12
South SW D @ 3.5'	0K09003-65	Soil	11/06/20 11:25	11-09-2020 08:12
West SW @ 2'	0K09003-66	Soil	11/06/20 11:30	11-09-2020 08:12
West SW B1A @ 1.5'	0K09003-67	Soil	11/05/20 09:20	11-09-2020 08:12
West SW B2A @ 2'	0K09003-68	Soil	11/05/20 09:40	11-09-2020 08:12

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West SW C @ 2'	0K09003-69	Soil	11/06/20 11:55	11-09-2020 08:12
West SW C @ 3.5'	0K09003-70	Soil	11/05/20 09:55	11-09-2020 08:12

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-1 @ 4'**  
**0K09003-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C12-C28	26.9	25.5	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		103 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		110 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>26.9</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-3 @ 4'**  
**0K09003-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>45.4</b>	25.3	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>37.2</b>	25.3	mg/kg dry	1	P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		107 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1014	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>82.6</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-9 @ 4'**  
**0K09003-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	381	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	220	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		90.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>601</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-14 @ 4'**  
**0K09003-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	585	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	320	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		91.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	905	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-15 @ 4'**  
**0K09003-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
<b>&gt;C12-C28</b>	<b>29.0</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		88.1 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		97.5 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>29.0</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-17B @ 3'**  
**0K09003-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.3 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		108 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-20 @ 4'**  
**0K09003-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>40.7</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		93.3 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		106 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>40.7</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-21 @ 4'**  
**0K09003-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>226</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>107</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>332</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-26 @ 4'**  
**0K09003-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	218	25.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	120	25.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.9 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		107 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>338</b>	25.0	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-27 @ 4'**  
**0K09003-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	252	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	131	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		97.3 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>383</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-32 @ 4'**  
**0K09003-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>698</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>382</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		97.5 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1080</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-33 @ 4'**  
**0K09003-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>4.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>56.2</b>	26.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>36.8</b>	26.0	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		118 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>93.0</b>	26.0	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-37 @ 4'**  
**0K09003-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>272</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>151</b>	25.3	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>422</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-38 @ 4'**  
**0K09003-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.9 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-39 @ 4'**  
**0K09003-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>33.6</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		89.1 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>33.6</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-45 @ 4'**  
**0K09003-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	219	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	121	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		90.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>340</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-46 @ 4'**  
**0K09003-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	449	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	217	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		91.9 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>665</b>	25.8	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-47 @ 4'**  
**0K09003-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-48 @ 4'**  
**0K09003-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	<b>146</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	<b>88.1</b>	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>234</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-49 @ 4'**  
**0K09003-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	404	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	319	25.8	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		106 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		123 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>723</b>	25.8	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-50 @ 4'**  
**0K09003-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	204	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	113	25.5	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		81.6 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		98.8 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>317</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-51 @ 4'**  
**0K09003-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	6.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	26.6	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	26.6	mg/kg dry	1	P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		96.7 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		116 %	70-130		P0K1015	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-52 @ 4'**  
**0K09003-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M	
>C12-C28	<b>228</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M	
>C28-C35	<b>171</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		142 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>399</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-53 @ 4'**  
**0K09003-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	4.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.0	mg/kg dry	1	P0K1016	11/10/20	11/11/20	TPH 8015M
>C12-C28	ND	26.0	mg/kg dry	1	P0K1016	11/10/20	11/11/20	TPH 8015M
>C28-C35	ND	26.0	mg/kg dry	1	P0K1016	11/10/20	11/11/20	TPH 8015M
Surrogate: 1-Chlorooctane		94.8 %	70-130		P0K1016	11/10/20	11/11/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/11/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	11/10/20	11/11/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-54 @ 4'**  
**0K09003-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>27.0</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<b>&gt;C12-C28</b>	<b>348</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<b>&gt;C28-C35</b>	<b>228</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		97.1 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		117 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>603</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-55 @ 4'**  
**0K09003-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>37.4</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>26.0</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		91.1 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>63.3</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-56 @ 4'**  
**0K09003-27 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	497	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	262	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		89.8 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>759</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-57 @ 4'**  
**0K09003-28 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>207</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>127</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		90.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>334</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-58 @ 4'**  
**0K09003-29 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>239</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>153</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		93.4 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>392</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-59 @ 4'**  
**0K09003-30 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>59.5</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>26.3</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		82.9 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		99.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>85.8</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-60 @ 4'**  
**0K09003-31 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.0 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		115 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-61 @ 4'**  
**0K09003-32 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>135</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>80.6</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		99.7 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		117 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>215</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-62 @ 4'**  
**0K09003-33 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>225</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>141</b>	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		101 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		120 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>365</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-63 @ 4'**  
**0K09003-34 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	73.7	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	25.7	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		119 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>99.4</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-64 @ 4'**  
**0K09003-35 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		95.2 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-65 @ 4'**  
**0K09003-36 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<b>&gt;C12-C28</b>	<b>48.9</b>	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		95.6 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>48.9</b>	25.8	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-66 @ 4'**  
**0K09003-37 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.3 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-67 @ 4'**  
**0K09003-38 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		88.0 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-68 @ 4'**  
**0K09003-39 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
<b>&gt;C12-C28</b>	<b>31.6</b>	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		87.4 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>31.6</b>	25.8	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-69 @ 4'**  
**0K09003-40 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	<b>255</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	<b>150</b>	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.7 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		119 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>405</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-70 @ 4'**  
**0K09003-41 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		88.1 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-81 @ 4'**  
**0K09003-42 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: 1-Chlorooctane		87.4 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0K1016	11/10/20	11/12/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-82 @ 3'**  
**0K09003-43 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

<b>Benzene</b>	<b>0.00317</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00634</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00783</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00401</b>	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>74.2</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C12-C28</b>	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C28-C35</b>	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		114 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-83 @ 3'**  
**0K09003-44 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.21	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-84 @ 3'**  
**0K09003-45 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00174</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.16</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-85 @ 3'**  
**0K09003-46 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	6.38	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-86 @ 4'**  
**0K09003-47 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

<b>Benzene</b>	<b>0.00225</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0245</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00904</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00301</b>	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>ND</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>3.54</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C12-C28</b>	<b>235</b>	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>&gt;C28-C35</b>	<b>106</b>	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		123 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>340</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-87 @ 4'**  
**0K09003-48 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00405</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00701</b>	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00286</b>	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>11.9</b>	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		152 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC1
Surrogate: o-Terphenyl		154 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC1
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-88 @ 4'**  
**0K09003-49 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.69	1.02	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-89 @ 4'**  
**0K09003-50 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	3.95	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	181	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	91.2	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	272	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-90 @ 4'**  
**0K09003-51 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.59	1.02	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	291	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	142	25.5	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	433	25.5	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-91 @ 4'**  
**0K09003-52 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	10.3	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-92 @ 4'**  
**0K09003-53 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	16.0	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-93 @ 4'**  
**0K09003-54 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.41	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		135 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW B @ 3.5'**  
**0K09003-55 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.34	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	208	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	89.1	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	298	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW D @ 3.5'**  
**0K09003-56 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	10.1	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		133 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**East SW 3 @ 3.5'**  
**0K09003-57 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1006	11/10/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	7.37	1.01	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B1A @ 2'**  
**0K09003-58 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	2.68	1.00	mg/kg dry	1	P0K1101	11/11/20	11/12/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		119 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW B2A @ 2'**  
**0K09003-59 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	8.38	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North SW C @ 2'**  
**0K09003-60 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	9.57	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C12-C28	48.1	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: 1-Chlorooctane		122 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P0K1017	11/10/20	11/12/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>48.1</b>	25.3	mg/kg dry	1	[CALC]	11/10/20	11/12/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**North Wall C @ 3.5'****0K09003-61 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.****Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.62	1.02	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	205	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	117	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		75.1 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		88.4 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>323</b>	25.5	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW B @ 3.5'**  
**0K09003-62 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0117</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0179</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00775</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00175</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.18</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.6 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW C @ 2'**  
**0K09003-63 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	19.0	1.00	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.8 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW C @ 3.5'**  
**0K09003-64 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00233</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00780</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00329</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>4.85</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.7 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**South SW D @ 3.5'**  
**0K09003-65 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	4.06	1.02	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.4 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW @ 2'**  
**0K09003-66 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.83	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.1 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B1A @ 1.5'**  
**0K09003-67 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

<b>Benzene</b>	<b>0.0132</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.0346</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0157</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00613</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00124</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>5.84</b>	1.00	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	ND	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		90.6 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		97.8 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW B2A @ 2'**  
**0K09003-68 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00132</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>8.25</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.2 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW C @ 2'**  
**0K09003-69 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.18	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.5 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**West SW C @ 3.5'**  
**0K09003-70 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**Organics by GC**

Benzene	ND	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Toluene</b>	<b>0.00836</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.0137</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00610</b>	0.00200	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00128</b>	0.00100	mg/kg dry	1	P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	75-125		P0K1107	11/11/20	11/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>7.88</b>	1.01	mg/kg dry	1	P0K1102	11/11/20	11/13/20	EPA 300.0	
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0K1007	11/10/20	11/10/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0K1011	11/10/20	11/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	11/10/20	11/10/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1006 - General Preparation (GC)****Blank (P0K1006-BLK1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

**LCS (P0K1006-BS1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0853	0.00100	mg/kg wet	0.100		85.3	80-120			
Toluene	0.0817	0.00100	"	0.100		81.7	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200		83.2	80-120			
Xylene (o)	0.0926	0.00100	"	0.100		92.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	75-125			

**LCS Dup (P0K1006-BSD1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0830	0.00100	mg/kg wet	0.100		83.0	80-120	2.82	20	
Toluene	0.0806	0.00100	"	0.100		80.6	80-120	1.33	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	2.67	20	
Xylene (p/m)	0.163	0.00200	"	0.200		81.7	80-120	1.85	20	
Xylene (o)	0.0882	0.00100	"	0.100		88.2	80-120	4.88	20	
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		109	75-125			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.120		113	75-125			

**Calibration Blank (P0K1006-CCB1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		98.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1006 - General Preparation (GC)****Calibration Blank (P0K1006-CCB2)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		101	75-125			

**Calibration Blank (P0K1006-CCB3)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	75-125			

**Calibration Check (P0K1006-CCV1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0867	0.00100	mg/kg wet	0.100		86.7	80-120			
Toluene	0.0800	0.00100	"	0.100		80.0	80-120			
Ethylbenzene	0.0914	0.00100	"	0.100		91.4	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.7	80-120			
Xylene (o)	0.0934	0.00100	"	0.100		93.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

**Calibration Check (P0K1006-CCV2)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0888	0.00100	mg/kg wet	0.100		88.8	80-120			
Toluene	0.0804	0.00100	"	0.100		80.4	80-120			
Ethylbenzene	0.0905	0.00100	"	0.100		90.5	80-120			
Xylene (p/m)	0.162	0.00200	"	0.200		81.0	80-120			
Xylene (o)	0.0910	0.00100	"	0.100		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.129		"	0.120		107	75-125			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1006 - General Preparation (GC)****Calibration Check (P0K1006-CCV3)**

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0887	0.00100	mg/kg wet	0.100		88.7	80-120			
Toluene	0.0834	0.00100	"	0.100		83.4	80-120			
Ethylbenzene	0.0935	0.00100	"	0.100		93.5	80-120			
Xylene (p/m)	0.164	0.00200	"	0.200		82.0	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		110	75-125			

**Matrix Spike (P0K1006-MS1)**

Source: 0K09002-68

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0727	0.00100	mg/kg dry	0.105	ND	69.0	80-120			QM-07
Toluene	0.0673	0.00100	"	0.105	ND	63.9	80-120			QM-07
Ethylbenzene	0.0889	0.00100	"	0.105	ND	84.5	80-120			
Xylene (p/m)	0.138	0.00200	"	0.211	ND	65.3	80-120			QM-07
Xylene (o)	0.0720	0.00100	"	0.105	ND	68.4	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.131		"	0.126		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.126		105	75-125			

**Matrix Spike Dup (P0K1006-MSD1)**

Source: 0K09002-68

Prepared: 11/10/20 Analyzed: 11/11/20

Benzene	0.0730	0.00100	mg/kg dry	0.105	ND	69.4	80-120	0.491	20	QM-07
Toluene	0.0671	0.00100	"	0.105	ND	63.7	80-120	0.282	20	QM-07
Ethylbenzene	0.0868	0.00100	"	0.105	ND	82.5	80-120	2.41	20	
Xylene (p/m)	0.133	0.00200	"	0.211	ND	63.1	80-120	3.46	20	QM-07
Xylene (o)	0.0698	0.00100	"	0.105	ND	66.3	80-120	3.10	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.124		"	0.126		98.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.126		105	75-125			

**Batch P0K1107 - General Preparation (GC)****Blank (P0K1107-BLK1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	75-125			

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Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1107 - General Preparation (GC)****LCS (P0K1107-BS1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0883	0.00100	mg/kg wet	0.100		88.3	80-120			
Toluene	0.0824	0.00100	"	0.100		82.4	80-120			
Ethylbenzene	0.0886	0.00100	"	0.100		88.6	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		87.2	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.120		109	75-125			

**LCS Dup (P0K1107-BS1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0877	0.00100	mg/kg wet	0.100		87.7	80-120	0.682	20	
Toluene	0.0806	0.00100	"	0.100		80.6	80-120	2.23	20	
Ethylbenzene	0.0852	0.00100	"	0.100		85.2	80-120	3.99	20	
Xylene (p/m)	0.173	0.00200	"	0.200		86.6	80-120	0.714	20	
Xylene (o)	0.0951	0.00100	"	0.100		95.1	80-120	0.506	20	
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

**Calibration Blank (P0K1107-CCB1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

**Calibration Blank (P0K1107-CCB2)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

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Project Number: PP-2075  
Project Manager: Sylwia Reynolds

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1107 - General Preparation (GC)****Calibration Blank (P0K1107-CCB3)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		100	75-125			

**Calibration Check (P0K1107-CCV1)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0883	0.00100	mg/kg wet	0.100		88.3	80-120			
Toluene	0.0805	0.00100	"	0.100		80.5	80-120			
Ethylbenzene	0.0931	0.00100	"	0.100		93.1	80-120			
Xylene (p/m)	0.168	0.00200	"	0.200		83.9	80-120			
Xylene (o)	0.0927	0.00100	"	0.100		92.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.120		110	75-125			

**Calibration Check (P0K1107-CCV2)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0906	0.00100	mg/kg wet	0.100		90.6	80-120			
Toluene	0.0818	0.00100	"	0.100		81.8	80-120			
Ethylbenzene	0.0933	0.00100	"	0.100		93.3	80-120			
Xylene (p/m)	0.169	0.00200	"	0.200		84.6	80-120			
Xylene (o)	0.0951	0.00100	"	0.100		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		109	75-125			

**Calibration Check (P0K1107-CCV3)**

Prepared &amp; Analyzed: 11/11/20

Benzene	0.0933	0.00100	mg/kg wet	0.100		93.3	80-120			
Toluene	0.0830	0.00100	"	0.100		83.0	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.176	0.00200	"	0.200		87.8	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	75-125			

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Project Number: PP-2075  
Project Manager: Sylwia Reynolds

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**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1107 - General Preparation (GC)**

<b>Matrix Spike (P0K1107-MS1)</b>		<b>Source: 0K09003-58</b>			<b>Prepared &amp; Analyzed: 11/11/20</b>					
Benzene	0.0791	0.00100	mg/kg dry	0.100	ND	79.1	80-120			QM-07
Toluene	0.0732	0.00100	"	0.100	ND	73.2	80-120			QM-07
Ethylbenzene	0.0925	0.00100	"	0.100	ND	92.5	80-120			
Xylene (p/m)	0.142	0.00200	"	0.200	ND	71.0	80-120			QM-07
Xylene (o)	0.0750	0.00100	"	0.100	ND	75.0	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			

<b>Matrix Spike Dup (P0K1107-MSD1)</b>		<b>Source: 0K09003-58</b>			<b>Prepared &amp; Analyzed: 11/11/20</b>					
Benzene	0.0795	0.00100	mg/kg dry	0.100	ND	79.5	80-120	0.454	20	QM-07
Toluene	0.0725	0.00100	"	0.100	ND	72.5	80-120	1.03	20	QM-07
Ethylbenzene	0.0892	0.00100	"	0.100	ND	89.2	80-120	3.68	20	
Xylene (p/m)	0.144	0.00200	"	0.200	ND	71.9	80-120	1.28	20	QM-07
Xylene (o)	0.0684	0.00100	"	0.100	ND	68.4	80-120	9.22	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	75-125			

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Project Number: PP-2075  
Project Manager: Sylwia Reynolds

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1007 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0K1007-BLK1)</b>	Prepared & Analyzed: 11/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0K1007-BLK2)</b>	Prepared & Analyzed: 11/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0K1007-BLK3)</b>	Prepared & Analyzed: 11/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0K1007-BLK4)</b>	Prepared & Analyzed: 11/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0K1007-BLK5)</b>	Prepared & Analyzed: 11/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0K1007-BLK6)</b>	Prepared & Analyzed: 11/10/20									
% Moisture	ND	0.1	%							
<b>Blank (P0K1007-BLK7)</b>	Prepared & Analyzed: 11/10/20									
% Moisture	ND	0.1	%							
<b>Duplicate (P0K1007-DUP1)</b>	<b>Source: 0K09001-10</b>		Prepared & Analyzed: 11/10/20							
% Moisture	14.0	0.1	%		14.0			0.00	20	
<b>Duplicate (P0K1007-DUP2)</b>	<b>Source: 0K09002-16</b>		Prepared & Analyzed: 11/10/20							
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
<b>Duplicate (P0K1007-DUP3)</b>	<b>Source: 0K09002-26</b>		Prepared & Analyzed: 11/10/20							
% Moisture	3.0	0.1	%		3.0			0.00	20	

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1007 - \*\*\* DEFAULT PREP \*\*\***

<b>Duplicate (P0K1007-DUP4)</b>	<b>Source: 0K09002-41</b>		Prepared & Analyzed: 11/10/20							
% Moisture	9.0	0.1	%		7.0			25.0	20	R3
<b>Duplicate (P0K1007-DUP5)</b>	<b>Source: 0K09002-51</b>		Prepared & Analyzed: 11/10/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0K1007-DUP6)</b>	<b>Source: 0K09002-66</b>		Prepared & Analyzed: 11/10/20							
% Moisture	8.0	0.1	%		9.0			11.8	20	
<b>Duplicate (P0K1007-DUP7)</b>	<b>Source: 0K09003-04</b>		Prepared & Analyzed: 11/10/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P0K1007-DUP8)</b>	<b>Source: 0K09003-19</b>		Prepared & Analyzed: 11/10/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0K1007-DUP9)</b>	<b>Source: 0K09003-29</b>		Prepared & Analyzed: 11/10/20							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0K1007-DUPA)</b>	<b>Source: 0K09003-44</b>		Prepared & Analyzed: 11/10/20							
% Moisture	ND	0.1	%		1.0			200	20	R3
<b>Duplicate (P0K1007-DUPB)</b>	<b>Source: 0K09003-54</b>		Prepared & Analyzed: 11/10/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P0K1007-DUPC)</b>	<b>Source: 0K09003-69</b>		Prepared & Analyzed: 11/10/20							
% Moisture	1.0	0.1	%		1.0			0.00	20	
<b>Duplicate (P0K1007-DUPD)</b>	<b>Source: 0K09007-09</b>		Prepared & Analyzed: 11/10/20							
% Moisture	16.0	0.1	%		16.0			0.00	20	

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**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1101 - \*\*\* DEFAULT PREP \*\*\*****LCS (P0K1101-BS1)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	433	1.00	mg/kg wet	400		108	80-120			
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**LCS Dup (P0K1101-BSD1)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	436	1.00	mg/kg wet	400		109	80-120	0.840	20	
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**Calibration Check (P0K1101-CCV1)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	22.0		mg/kg	20.0		110	0-200			
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**Calibration Check (P0K1101-CCV2)**

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	22.1		mg/kg	20.0		111	0-200			
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**Calibration Check (P0K1101-CCV3)**

Prepared: 11/11/20 Analyzed: 11/13/20

Chloride	22.6		mg/kg	20.0		113	0-200			
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**Matrix Spike (P0K1101-MS1)**

Source: 0K09002-69

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	645	1.03	mg/kg dry	515	52.1	115	80-120			
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**Matrix Spike (P0K1101-MS2)**

Source: 0K09003-49

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	535	1.02	mg/kg dry	510	8.69	103	80-120			
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**Matrix Spike Dup (P0K1101-MSD1)**

Source: 0K09002-69

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	609	1.03	mg/kg dry	515	52.1	108	80-120	5.84	20	
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**Matrix Spike Dup (P0K1101-MSD2)**

Source: 0K09003-49

Prepared: 11/11/20 Analyzed: 11/12/20

Chloride	543	1.02	mg/kg dry	510	8.69	105	80-120	1.60	20	
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**Batch P0K1102 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0K1102-BLK1)**

Prepared: 11/11/20 Analyzed: 11/13/20

Chloride	ND	1.00	mg/kg wet							
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P0K1102 - *** DEFAULT PREP ***</b>										
<b>LCS (P0K1102-BS1)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	443	1.00	mg/kg wet	400		111	80-120			
<b>LCS Dup (P0K1102-BSD1)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	447	1.00	mg/kg wet	400		112	80-120	0.899	20	
<b>Calibration Check (P0K1102-CCV1)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	22.6		mg/kg	20.0		113	0-200			
<b>Calibration Check (P0K1102-CCV2)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	22.1		mg/kg	20.0		111	0-200			
<b>Calibration Check (P0K1102-CCV3)</b>				Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
<b>Matrix Spike (P0K1102-MS1)</b>		<b>Source: 0K09003-59</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	522	1.01	mg/kg dry	505	8.38	102	80-120			
<b>Matrix Spike (P0K1102-MS2)</b>		<b>Source: 0K09003-69</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	520	1.01	mg/kg dry	505	5.18	102	80-120			
<b>Matrix Spike Dup (P0K1102-MSD1)</b>		<b>Source: 0K09003-59</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	558	1.01	mg/kg dry	505	8.38	109	80-120	6.71	20	
<b>Matrix Spike Dup (P0K1102-MSD2)</b>		<b>Source: 0K09003-69</b>		Prepared: 11/11/20 Analyzed: 11/13/20						
Chloride	547	1.01	mg/kg dry	505	5.18	107	80-120	5.03	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1011 - TX 1005****Blank (P0K1011-BLK1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.3		"	100		83.3	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			

**LCS (P0K1011-BS1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	871	25.0	mg/kg wet	1000		87.1	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	48.9		"	50.0		97.8	70-130			

**LCS Dup (P0K1011-BSD1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	822	25.0	mg/kg wet	1000		82.2	75-125	5.77	20	
>C12-C28	1020	25.0	"	1000		102	75-125	7.03	20	
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.1	70-130			

**Calibration Check (P0K1011-CCV1)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	446	25.0	mg/kg wet	500		89.1	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	92.0		"	100		92.0	70-130			
Surrogate: o-Terphenyl	45.5		"	50.0		91.1	70-130			

**Calibration Check (P0K1011-CCV2)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	482	25.0	mg/kg wet	500		96.4	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1011 - TX 1005****Calibration Check (P0K1011-CCV3)**

Prepared &amp; Analyzed: 11/10/20

C6-C12	443	25.0	mg/kg wet	500		88.7	85-115			
>C12-C28	505	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	90.6		"	100		90.6	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.8	70-130			

**Matrix Spike (P0K1011-MS1)**

Source: 0K09003-70

Prepared &amp; Analyzed: 11/10/20

C6-C12	996	25.3	mg/kg dry	1010	ND	98.6	75-125			
>C12-C28	1220	25.3	"	1010	ND	121	75-125			
Surrogate: 1-Chlorooctane	95.6		"	101		94.7	70-130			
Surrogate: o-Terphenyl	53.8		"	50.5		107	70-130			

**Matrix Spike Dup (P0K1011-MSD1)**

Source: 0K09003-70

Prepared &amp; Analyzed: 11/10/20

C6-C12	934	25.3	mg/kg dry	1010	ND	92.5	75-125	6.39	20	
>C12-C28	1160	25.3	"	1010	ND	115	75-125	4.99	20	
Surrogate: 1-Chlorooctane	115		"	101		114	70-130			
Surrogate: o-Terphenyl	55.2		"	50.5		109	70-130			

**Batch P0K1014 - TX 1005****Blank (P0K1014-BLK1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	55.3		"	50.0		111	70-130			

**LCS (P0K1014-BS1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	913	25.0	mg/kg wet	1000		91.3	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	53.9		"	50.0		108	70-130			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1014 - TX 1005****LCS Dup (P0K1014-BSD1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	927	25.0	mg/kg wet	1000		92.7	75-125	1.55	20	
>C12-C28	1100	25.0	"	1000		110	75-125	0.919	20	
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			

**Calibration Check (P0K1014-CCV1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	474	25.0	mg/kg wet	500		94.9	85-115			
>C12-C28	512	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			

**Calibration Check (P0K1014-CCV2)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	488	25.0	mg/kg wet	500		97.7	85-115			
>C12-C28	516	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			

**Calibration Check (P0K1014-CCV3)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	506	25.0	mg/kg wet	500		101	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

**Matrix Spike (P0K1014-MS1)**

Source: 0K09002-72

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	1040	25.3	mg/kg dry	1010	ND	103	75-125			
>C12-C28	1220	25.3	"	1010	28.1	118	75-125			
Surrogate: 1-Chlorooctane	117		"	101		116	70-130			
Surrogate: o-Terphenyl	58.4		"	50.5		116	70-130			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1014 - TX 1005**

<b>Matrix Spike Dup (P0K1014-MSD1)</b>	<b>Source: 0K09002-72</b>			Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	1030	25.3	mg/kg dry	1010	ND	102	75-125	0.574	20	
>C12-C28	1230	25.3	"	1010	28.1	119	75-125	0.836	20	
Surrogate: 1-Chlorooctane	116		"	101		115	70-130			
Surrogate: o-Terphenyl	58.5		"	50.5		116	70-130			

**Batch P0K1015 - TX 1005**

<b>Blank (P0K1015-BLK1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	93.0		"	100		93.0	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			

<b>LCS (P0K1015-BS1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	841	25.0	mg/kg wet	1000		84.1	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

<b>LCS Dup (P0K1015-BSD1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	835	25.0	mg/kg wet	1000		83.5	75-125	0.641	20	
>C12-C28	1040	25.0	"	1000		104	75-125	1.80	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.7		"	50.0		99.3	70-130			

<b>Calibration Check (P0K1015-CCV1)</b>				Prepared: 11/10/20		Analyzed: 11/11/20				
C6-C12	436	25.0	mg/kg wet	500		87.2	85-115			
>C12-C28	484	25.0	"	500		96.9	85-115			
Surrogate: 1-Chlorooctane	91.4		"	100		91.4	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.5	70-130			

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Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1015 - TX 1005****Calibration Check (P0K1015-CCV2)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	494	25.0	mg/kg wet	500		98.7	85-115			
>C12-C28	528	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			

**Matrix Spike (P0K1015-MS1)**

Source: 0K09003-20

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	940	25.8	mg/kg dry	1030	14.7	89.7	75-125			
>C12-C28	1260	25.8	"	1030	404	83.4	75-125			
Surrogate: 1-Chlorooctane	114		"	103		110	70-130			
Surrogate: o-Terphenyl	54.9		"	51.5		106	70-130			

**Matrix Spike Dup (P0K1015-MSD1)**

Source: 0K09003-20

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	900	25.8	mg/kg dry	1030	14.7	85.9	75-125	4.37	20	
>C12-C28	1260	25.8	"	1030	404	83.1	75-125	0.379	20	
Surrogate: 1-Chlorooctane	109		"	103		106	70-130			
Surrogate: o-Terphenyl	52.5		"	51.5		102	70-130			

**Batch P0K1016 - TX 1005****Blank (P0K1016-BLK1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.1		"	100		89.1	70-130			
Surrogate: o-Terphenyl	50.5		"	50.0		101	70-130			

**LCS (P0K1016-BS1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	966	25.0	mg/kg wet	1000		96.6	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	57.4		"	50.0		115	70-130			

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Project: Plains Artesia Gathering East  
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Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1016 - TX 1005****LCS Dup (P0K1016-BSD1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	891	25.0	mg/kg wet	1000		89.1	75-125	8.13	20	
>C12-C28	1070	25.0	"	1000		107	75-125	7.59	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

**Calibration Check (P0K1016-CCV1)**

Prepared: 11/10/20 Analyzed: 11/11/20

C6-C12	454	25.0	mg/kg wet	500		90.8	85-115			
>C12-C28	475	25.0	"	500		95.0	85-115			
Surrogate: 1-Chlorooctane	94.4		"	100		94.4	70-130			
Surrogate: o-Terphenyl	47.6		"	50.0		95.1	70-130			

**Calibration Check (P0K1016-CCV2)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	504	25.0	mg/kg wet	500		101	85-115			
>C12-C28	554	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			

**Calibration Check (P0K1016-CCV3)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	511	25.0	mg/kg wet	500		102	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

**Matrix Spike (P0K1016-MS1)**

Source: 0K09003-40

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	996	25.3	mg/kg dry	1010	17.4	96.9	75-125			
>C12-C28	1250	25.3	"	1010	255	98.7	75-125			
Surrogate: 1-Chlorooctane	90.1		"	101		89.2	70-130			
Surrogate: o-Terphenyl	58.8		"	50.5		116	70-130			

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Project: Plains Artesia Gathering East  
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Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0K1016 - TX 1005**

<b>Matrix Spike Dup (P0K1016-MSD1)</b>	<b>Source: 0K09003-40</b>			Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	964	25.3	mg/kg dry	1010	17.4	93.7	75-125	3.34	20	
>C12-C28	1240	25.3	"	1010	255	97.9	75-125	0.809	20	
Surrogate: 1-Chlorooctane	114		"	101		113	70-130			
Surrogate: o-Terphenyl	54.4		"	50.5		108	70-130			

**Batch P0K1017 - TX 1005**

<b>Blank (P0K1017-BLK1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130			

<b>LCS (P0K1017-BS1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	941	25.0	mg/kg wet	1000		94.1	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	70-130			

<b>LCS Dup (P0K1017-BSD1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	917	25.0	mg/kg wet	1000		91.7	75-125	2.55	20	
>C12-C28	1090	25.0	"	1000		109	75-125	2.40	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	56.7		"	50.0		113	70-130			

<b>Calibration Check (P0K1017-CCV1)</b>				Prepared: 11/10/20		Analyzed: 11/12/20				
C6-C12	491	25.0	mg/kg wet	500		98.2	85-115			
>C12-C28	517	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	53.2		"	50.0		106	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0K1017 - TX 1005****Calibration Check (P0K1017-CCV2)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	494	25.0	mg/kg wet	500		98.7	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

**Calibration Check (P0K1017-CCV3)**

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	453	25.0	mg/kg wet	500		90.6	85-115			
>C12-C28	479	25.0	"	500		95.8	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.6	70-130			

**Matrix Spike (P0K1017-MS1)**

Source: 0K09003-60

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	1010	25.3	mg/kg dry	1010	9.71	99.3	75-125			
>C12-C28	1150	25.3	"	1010	48.1	109	75-125			
Surrogate: 1-Chlorooctane	123		"	101		122	70-130			
Surrogate: o-Terphenyl	58.4		"	50.5		116	70-130			

**Matrix Spike Dup (P0K1017-MSD1)**

Source: 0K09003-60

Prepared: 11/10/20 Analyzed: 11/12/20

C6-C12	1030	25.3	mg/kg dry	1010	9.71	101	75-125	1.42	20	
>C12-C28	1170	25.3	"	1010	48.1	111	75-125	1.59	20	
Surrogate: 1-Chlorooctane	126		"	101		125	70-130			
Surrogate: o-Terphenyl	59.5		"	50.5		118	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

S-GC1 Surrogate recovery outside of control limits. A second analysis confirmed the original results..

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

11/18/2020

Brent Barron, Laboratory Director/Technical Director

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

PG. 1 OF 1

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: Joe Belloc

Fax No:

e-mail: sylviareynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

Project Name: Artesia Gathering East

Project #: PP-2075

Project Loc: Eddy Co, NM

WORK ORDER #: SRS: Artesia Gathering East Historical

Report Format: ☒ Standard ☐ TRRP ☐ NPDESelizabethstuart@deandigs.com  
algroves@paalp.com

Analyze For:

ORDER #: OK09003

(lab use only)

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250, ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT
	BH-1 @ 4'	4'	4'	11/6/20	1025		1	X																					
	BH-3 @ 4'	4'	4'	11/6/20	1020		1	X																					
	BH-7 @ 4'	4'	4'	11/6/20	1015		1	X																					
	BH-14 @ 4'	4'	4'	11/5/20	1000		1	X																					
	BH-15 @ 4'	4'	4'	11/5/20	1005		1	X																					
	BH-17 @ 3'	3'	3'	11/5/20	0925		1	X																					
	BH-20 @ 4'	4'	4'		1015		1	X																					
	BH-21 @ 4'	4'	4'		1010		1	X																					
	BH-26 @ 4'	4'	4'		1020		1	X																					
	BH-27 @ 4'	4'	4'		1025		1	X																					

Special Instructions:

Reinforced by:

Reinforced by:

Reinforced by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by:

Date

Date

Date

Time

Time

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on containers?

Custody seals on containers?

Custody seals on cooler(s)?

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt

Adjusted: °C Factor

7.0 +1.0 3.0 4.0



**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Pg. 2 of 7

Project Manager: Sylvia Reynolds

Project Name: Artesia Gathering East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Eddy Co, NM

City/State/Zip: Midland TX 79707

WORK ORDER #: SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joe Belloc

e-mail:

sywlaireynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

Analyze For:

sywlaireynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

algroves@daab.com

Analyze For:

ORDER #: 0 K09003

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250, ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT
	BH-32@4'	4'	4'	11/5/20	1035		1	X																					
	BH-33@4'	4'	4'	11/5/20	1030		1																						
	BH-37@4'	4'	4'	11/5/20	1040		1																						
	BH-38@4'	4'	4'	11/5/20	1045		1																						
	BH-39@4'	4'	4'		1050		1																						
	BH-45@4'	4'	4'		1055		1																						
	BH-46@4'	4'	4'		1110		1																						
	BH-47@4'	4'	4'		1105		1																						
	BH-48@4'	4'	4'		1100		1																						
	BH-49@4'	4'	4'		1125		1																						

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) Custody seals on container(s) (Custody seals on cooler(s))

Sample Hand Delivered

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C

Adjusted: °C Factor





**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

PG 4 OF 7

Project Manager: Sylvia Reynolds

Project Name: Artesia Gathering East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Eddy Co, NM

City/State/Zip: Midland TX 79707

WORK ORDER #: SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joe Belloc

e-mail: sylviareynolds@deandigs.com  
jeffkindley@deandigs.com  
kaylanlongee@deanequip.com

algroves@daaib.com

(lab use only)

ORDER #: 0K09003

Preservation &amp; # of Containers

Matrix

Analyze For:

LAB # (lab use only)

## FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250 ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day TAT

24 hour TAT

Special Instructions:

Relinquished by:

Date

Time

Relinquished by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) intact?

Custody seals on container(s) intact?

Sample Hand Delivered by Sampler/Client Rep.?

Temperature Upon Receipt: °C

Adjusted: °C Factor

N

N

N

N

N

N

N

CALIN 77





**PBMLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Pg. 607

Project Manager: Sylvia Reynolds

Project Name: Artesia Gathering East

Company Name: Dean

Project #: PP-2075

Company Address: 12600 WCR 91

Project Loc: Eddy Co, NM

City/State/Zip: Midland TX 79707

WORK ORDER #: SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Joe Belloc

e-mail: sylviareynolds@deandigs.com  
leftkindley@deandigs.com  
kaylanlongee@deanequip.comelizabethstuart@deandigs.com  
ajgroves@paalp.com

(lab use only)

ORDER #: 01009003

Analyze For:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250 ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day TAT	24 hour TAT
	BH-96 @ 4'	4'	11/6/20	1040			1	X										X	X	X	X	X	X	X	X	X	X	X	
	BH-71 @ 4'	1		1045			1	X										X	X	X	X	X	X	X	X	X	X	X	
	BH-92 @ 4'	1		1050			1	X										X	X	X	X	X	X	X	X	X	X	X	
	BH-93 @ 4'	↓	11/6/20	1140			1	X										X	X	X	X	X	X	X	X	X	X	X	
	East SW B @ 3 1/2'	3.5'	11/6/20	1000			1	X										X	X	X	X	X	X	X	X	X	X	X	
	East SW D @ 3.5'	3.5'	11/6/20	1055			1	X										X	X	X	X	X	X	X	X	X	X	X	
	East SW 3 @ 3.5'	3.5'	11/6/20	1105			1	X										X	X	X	X	X	X	X	X	X	X	X	
	North SW B/A @ 2'	2'		1110			1	X										X	X	X	X	X	X	X	X	X	X	X	
	North SW B/A @ 2'	2'		1115			1	X										X	X	X	X	X	X	X	X	X	X	X	
	North SW C @ 2'	2'	↓	1150			1	X										X	X	X	X	X	X	X	X	X	X	X	

Special Instructions:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)

Sample Hand Delivered by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C Factor

Adjusted:

7011N 210 17-CI

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701**

**Phone: 432-686-7235**

PG. 7 OF 7

**Project Manager:** Sylvia Reynolds

**Project Name:** Artesia Gathering East

Company Name \_\_\_\_\_ Dean \_\_\_\_\_

**Project #:** PP-2075

Company Address: 12600 WCR 91

**Project Loc:** Eddy Co, NM

City/State/Zip: Midland TX 79707

**WORK ORDER #:** SRS: Artesia Gathering East Historical

Telephone No: 432-230-0920

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

**Sampler Signature:** \_\_\_\_\_ **Joe Belloc**

e-mail: [sylviareynolds@deandigs.com](mailto:sylviareynolds@deandigs.com)

(lab use only)

kaylanlongee@deanequip.com

ORDER #: 0K09003

### Analyze For:

1

[illegible]

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0L04004



NELAP/TCEQ # T104704516-17-8

Report Date: 12/11/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-56 @4.5'	0L04004-01	Soil	12/03/20 10:25	12-04-2020 14:22
BH-32 @4.5'	0L04004-02	Soil	12/03/20 08:30	12-04-2020 14:22
BH-26 @4.5'	0L04004-03	Soil	12/03/20 08:35	12-04-2020 14:22
BH-37 @4.5'	0L04004-04	Soil	12/03/20 09:10	12-04-2020 14:22
BH-21 @4.5'	0L04004-05	Soil	12/03/20 09:30	12-04-2020 14:22
BH-27 @4.5'	0L04004-06	Soil	12/03/20 09:45	12-04-2020 14:22
BH-62 @4.5'	0L04004-07	Soil	12/03/20 10:05	12-04-2020 14:22
BH-48 @4.5'	0L04004-08	Soil	12/03/20 08:40	12-04-2020 14:22
BH-46 @4.5'	0L04004-09	Soil	12/03/20 08:45	12-04-2020 14:22
BH-86 @4.5'	0L04004-10	Soil	12/03/20 09:15	12-04-2020 14:22
BH-14 @4.5'	0L04004-11	Soil	12/03/20 09:35	12-04-2020 14:22
BH-57 @4.5'	0L04004-12	Soil	12/03/20 09:50	12-04-2020 14:22
BH-49 @4.5'	0L04004-13	Soil	12/03/20 08:50	12-04-2020 14:22
BH-45 @4.5'	0L04004-14	Soil	12/03/20 08:55	12-04-2020 14:22
BH-90 @4.5'	0L04004-15	Soil	12/03/20 09:20	12-04-2020 14:22
BH-52 @4.5'	0L04004-16	Soil	12/03/20 09:38	12-04-2020 14:22
BH-61 @4.5'	0L04004-17	Soil	12/03/20 09:55	12-04-2020 14:22
BH-9 @4.5'	0L04004-18	Soil	12/03/20 09:00	12-04-2020 14:22
BH-67 @4.5'	0L04004-19	Soil	12/03/20 09:05	12-04-2020 14:22
BH-89 @4.5'	0L04004-20	Soil	12/03/20 09:25	12-04-2020 14:22
BH-50 @4.5'	0L04004-21	Soil	12/03/20 09:40	12-04-2020 14:22
BH-54 @4.5'	0L04004-22	Soil	12/03/20 10:00	12-04-2020 14:22
BH-58 @4.5'	0L04004-23	Soil	12/03/20 10:20	12-04-2020 14:22
ESW B-2 @3.5'	0L04004-24	Soil	12/03/20 10:15	12-04-2020 14:22
NSW C-2 @3.5'	0L04004-25	Soil	12/03/20 10:10	12-04-2020 14:22

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-56 @4.5'**  
**0L04004-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
------------	-----	-----	---	---	---------	----------	----------	------------

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	224	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	126	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		99.9 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		106 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>350</b>	25.5	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-32 @4.5'**  
**0L04004-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
-------------------	------------	-----	---	---	---------	----------	----------	------------

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>487</b>	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>214</b>	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		105 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>701</b>	25.5	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-26 @4.5'**  
**0L04004-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>192</b>	25.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>82.1</b>	25.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.1 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		104 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>274</b>	25.3	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-37 @4.5'**  
**0L04004-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>242</b>	25.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>122</b>	25.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.2 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		103 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>364</b>	25.3	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-21 @4.5'**  
**0L04004-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>639</b>	25.8	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>310</b>	25.8	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		107 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>949</b>	25.8	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-27 @4.5'**  
**0L04004-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>782</b>	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>405</b>	25.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		106 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1190</b>	25.5	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-62 @4.5'**  
**0L04004-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>279</b>	26.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>154</b>	26.3	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		103 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>433</b>	26.3	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-48 @4.5'**  
**0L04004-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	9.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	66.0	27.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	34.5	27.5	mg/kg dry	1	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		108 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		114 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	100	27.5	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-46 @4.5'**  
**0L04004-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	7.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	134	mg/kg dry	5	P0L0711	12/07/20	12/08/20	TPH 8015M
>C12-C28	4590	134	mg/kg dry	5	P0L0711	12/07/20	12/08/20	TPH 8015M
>C28-C35	1360	134	mg/kg dry	5	P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		103 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0L0711	12/07/20	12/08/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	5940	134	mg/kg dry	5	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-86 @4.5'**  
**0L04004-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>333</b>	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>205</b>	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		100 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>538</b>	25.8	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-14 @4.5'**  
**0L04004-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>347</b>	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>193</b>	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		101 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		108 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>540</b>	25.8	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-57 @4.5'**  
**0L04004-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>301</b>	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>180</b>	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.7 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>481</b>	26.6	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-49 @4.5'**  
**0L04004-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	7.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.9	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	668	26.9	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	357	26.9	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		100 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1030</b>	26.9	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-45 @4.5'**  
**0L04004-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>338</b>	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>154</b>	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		102 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>492</b>	26.3	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-90 @4.5'**  
**0L04004-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	2.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	625	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	274	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		101 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	899	25.5	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-52 @4.5'**  
**0L04004-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>8.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.2	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	754	27.2	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	354	27.2	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		100 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		109 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1110</b>	27.2	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-61 @4.5'**  
**0L04004-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>314</b>	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>151</b>	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		95.3 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		104 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>465</b>	26.3	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-9 @4.5'**  
**0L04004-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	184	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	88.3	25.8	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		104 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	273	25.8	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-67 @4.5'**  
**0L04004-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	475	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	240	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		100 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		110 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>715</b>	26.6	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-89 @4.5'**  
**0L04004-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>108</b>	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>50.2</b>	26.3	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		98.1 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>158</b>	26.3	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-50 @4.5'**  
**0L04004-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>8.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.2	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>93.1</b>	27.2	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>50.2</b>	27.2	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		92.8 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>143</b>	27.2	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-54 @4.5'**  
**0L04004-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	7.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.9	mg/kg dry	1	P0L0712	12/07/20	12/09/20	TPH 8015M
>C12-C28	395	26.9	mg/kg dry	1	P0L0712	12/07/20	12/09/20	TPH 8015M
>C28-C35	292	26.9	mg/kg dry	1	P0L0712	12/07/20	12/09/20	TPH 8015M
Surrogate: 1-Chlorooctane		102 %	70-130		P0L0712	12/07/20	12/09/20	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P0L0712	12/07/20	12/09/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>687</b>	26.9	mg/kg dry	1	[CALC]	12/07/20	12/09/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-58 @4.5'**  
**0L04004-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C12-C28	<b>133</b>	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
>C28-C35	<b>62.8</b>	26.6	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: 1-Chlorooctane		94.0 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
Surrogate: o-Terphenyl		103 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>196</b>	26.6	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**ESW B-2 @3.5'**  
**0L04004-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.1 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	5.31	1.02	mg/kg dry	1	P0L0706	12/07/20	12/09/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		97.1 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**NSW C-2 @3.5'**  
**0L04004-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.9 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	20.3	1.02	mg/kg dry	1	P0L0706	12/07/20	12/09/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0L0704	12/07/20	12/07/20	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M	
>C12-C28	395	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M	
>C28-C35	167	25.5	mg/kg dry	1	P0L0712	12/07/20	12/08/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.3 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P0L0712	12/07/20	12/08/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	562	25.5	mg/kg dry	1	[CALC]	12/07/20	12/08/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0L1004 - General Preparation (GC)****Blank (P0L1004-BLK1)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.5	80-120			

**LCS (P0L1004-BS1)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130			
Toluene	0.0994	0.00100	"	0.100		99.4	70-130			
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130			
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	70-130			
Xylene (o)	0.0992	0.00100	"	0.100		99.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			

**LCS Dup (P0L1004-BSD1)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	1.49	20	
Toluene	0.103	0.00100	"	0.100		103	70-130	3.88	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	2.89	20	
Xylene (p/m)	0.208	0.00200	"	0.200		104	70-130	5.10	20	
Xylene (o)	0.103	0.00100	"	0.100		103	70-130	3.89	20	
Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

**Calibration Blank (P0L1004-CCB1)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.800		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0L1004 - General Preparation (GC)****Calibration Blank (P0L1004-CCB2)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.00		mg/kg wet							
Toluene	0.860		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.8	80-120			

**Calibration Check (P0L1004-CCV1)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			

**Calibration Check (P0L1004-CCV2)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.0999	0.00100	"	0.100		99.9	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.2	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.6	75-125			

**Calibration Check (P0L1004-CCV3)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.1	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0L1004 - General Preparation (GC)**

<b>Matrix Spike (P0L1004-MS1)</b>		<b>Source: 0L04003-03</b>		Prepared: 12/10/20		Analyzed: 12/11/20				
Benzene	0.0749	0.00102	mg/kg dry	0.102	ND	73.4	80-120			QM-05
Toluene	0.0574	0.00102	"	0.102	ND	56.2	80-120			QM-05
Ethylbenzene	0.0507	0.00102	"	0.102	ND	49.7	80-120			QM-05
Xylene (p/m)	0.0721	0.00204	"	0.204	ND	35.3	80-120			QM-05
Xylene (o)	0.0358	0.00102	"	0.102	ND	35.1	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.126		"	0.122		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.122		109	80-120			

<b>Matrix Spike Dup (P0L1004-MSD1)</b>		<b>Source: 0L04003-03</b>		Prepared: 12/10/20		Analyzed: 12/11/20				
Benzene	0.0780	0.00102	mg/kg dry	0.102	ND	76.4	80-120	4.03	20	QM-05
Toluene	0.0583	0.00102	"	0.102	ND	57.1	80-120	1.54	20	QM-05
Ethylbenzene	0.0520	0.00102	"	0.102	ND	51.0	80-120	2.66	20	QM-05
Xylene (p/m)	0.0767	0.00204	"	0.204	ND	37.6	80-120	6.09	20	QM-05
Xylene (o)	0.0379	0.00102	"	0.102	ND	37.1	80-120	5.54	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.126		"	0.122		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.122		109	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0L0704 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0L0704-BLK1)</b>				Prepared & Analyzed: 12/07/20						
% Moisture	ND	0.1	%							
<b>Blank (P0L0704-BLK2)</b>				Prepared & Analyzed: 12/07/20						
% Moisture	ND	0.1	%							
<b>Duplicate (P0L0704-DUP1)</b>				<b>Source: 0L04003-04</b>		Prepared & Analyzed: 12/07/20				
% Moisture	3.0	0.1	%		4.0			28.6	20	R3
<b>Duplicate (P0L0704-DUP2)</b>				<b>Source: 0L04004-09</b>		Prepared & Analyzed: 12/07/20				
% Moisture	7.0	0.1	%		7.0			0.00	20	
<b>Duplicate (P0L0704-DUP3)</b>				<b>Source: 0L04004-24</b>		Prepared & Analyzed: 12/07/20				
% Moisture	2.0	0.1	%		2.0			0.00	20	

**Batch P0L0706 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0L0706-BLK1)</b>				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P0L0706-BS1)</b>				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	452	1.00	mg/kg wet	400		113	80-120			
<b>LCS Dup (P0L0706-BSD1)</b>				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	447	1.00	mg/kg wet	400		112	80-120	1.07	20	
<b>Calibration Check (P0L0706-CCV1)</b>				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	21.6		mg/kg	20.0		108	0-200			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0L0706 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Check (P0L0706-CCV2)**

Prepared: 12/07/20 Analyzed: 12/09/20

Chloride	22.2		mg/kg	20.0		111	0-200			
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**Calibration Check (P0L0706-CCV3)**

Prepared: 12/07/20 Analyzed: 12/09/20

Chloride	22.4		mg/kg	20.0		112	0-200			
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**Matrix Spike (P0L0706-MS1)**

Source: 0L03002-21

Prepared: 12/07/20 Analyzed: 12/10/20

Chloride	1230	11.0	mg/kg dry	1100	219	91.7	80-120			
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**Matrix Spike (P0L0706-MS2)**

Source: 0L07007-04

Prepared: 12/07/20 Analyzed: 12/09/20

Chloride	675	1.05	mg/kg dry	526	202	90.0	80-120			
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**Matrix Spike Dup (P0L0706-MSD1)**

Source: 0L03002-21

Prepared: 12/07/20 Analyzed: 12/10/20

Chloride	1310	11.0	mg/kg dry	1100	219	99.5	80-120	6.68	20	
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**Matrix Spike Dup (P0L0706-MSD2)**

Source: 0L07007-04

Prepared: 12/07/20 Analyzed: 12/09/20

Chloride	688	1.05	mg/kg dry	526	202	92.4	80-120	1.89	20	
----------	-----	------	-----------	-----	-----	------	--------	------	----	--

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0L0711 - TX 1005****Blank (P0L0711-BLK1)**

Prepared &amp; Analyzed: 12/07/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	51.8		"	50.0		104	70-130			

**LCS (P0L0711-BS1)**

Prepared &amp; Analyzed: 12/07/20

C6-C12	953	25.0	mg/kg wet	1000		95.3	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

**LCS Dup (P0L0711-BSD1)**

Prepared &amp; Analyzed: 12/07/20

C6-C12	1000	25.0	mg/kg wet	1000		100	75-125	4.82	20	
>C12-C28	1140	25.0	"	1000		114	75-125	0.390	20	
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130			

**Calibration Check (P0L0711-CCV1)**

Prepared &amp; Analyzed: 12/07/20

C6-C12	492	25.0	mg/kg wet	500		98.5	85-115			
>C12-C28	539	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	51.3		"	50.0		103	70-130			

**Calibration Check (P0L0711-CCV2)**

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	533	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	50.9		"	50.0		102	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0L0711 - TX 1005****Calibration Check (P0L0711-CCV3)**

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	503	25.0	mg/kg wet	500		101	85-115			
>C12-C28	508	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			

**Matrix Spike (P0L0711-MS1)**

Source: 0L04002-01

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	998	26.9	mg/kg dry	1080	10.8	91.8	75-125			
>C12-C28	1160	26.9	"	1080	13.8	107	75-125			
Surrogate: 1-Chlorooctane	128		"	108		119	70-130			
Surrogate: o-Terphenyl	55.3		"	53.8		103	70-130			

**Matrix Spike Dup (P0L0711-MSD1)**

Source: 0L04002-01

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	1010	26.9	mg/kg dry	1080	10.8	92.9	75-125	1.19	20	
>C12-C28	1220	26.9	"	1080	13.8	112	75-125	4.46	20	
Surrogate: 1-Chlorooctane	128		"	108		119	70-130			
Surrogate: o-Terphenyl	57.3		"	53.8		107	70-130			

**Batch P0L0712 - TX 1005****Blank (P0L0712-BLK1)**

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	100		"	100		100	70-130			
Surrogate: o-Terphenyl	53.1		"	50.0		106	70-130			

**LCS (P0L0712-BS1)**

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	921	25.0	mg/kg wet	1000		92.1	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0L0712 - TX 1005****LCS Dup (P0L0712-BSD1)**

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	949	25.0	mg/kg wet	1000		94.9	75-125	2.99	20	
>C12-C28	1160	25.0	"	1000		116	75-125	2.44	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	57.8		"	50.0		116	70-130			

**Calibration Check (P0L0712-CCV1)**

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	481	25.0	mg/kg wet	500		96.1	85-115			
>C12-C28	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	53.3		"	50.0		107	70-130			

**Calibration Check (P0L0712-CCV2)**

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	484	25.0	mg/kg wet	500		96.9	85-115			
>C12-C28	540	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

**Matrix Spike (P0L0712-MS1)**

Source: 0L04004-15

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	861	25.5	mg/kg dry	1020	12.9	83.1	75-125			
>C12-C28	1410	25.5	"	1020	625	76.7	75-125			
Surrogate: 1-Chlorooctane	112		"	102		110	70-130			
Surrogate: o-Terphenyl	51.9		"	51.0		102	70-130			

**Matrix Spike Dup (P0L0712-MSD1)**

Source: 0L04004-15

Prepared: 12/07/20 Analyzed: 12/08/20

C6-C12	903	25.5	mg/kg dry	1020	12.9	87.2	75-125	4.80	20	
>C12-C28	1540	25.5	"	1020	625	90.0	75-125	15.9	20	
Surrogate: 1-Chlorooctane	114		"	102		112	70-130			
Surrogate: o-Terphenyl	51.1		"	51.0		100	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

12/11/2020

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
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Project Manager: Sylwia Reynolds

Fax:

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



PBB LAB

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Perrin Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

2 of 3

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Sampler Signature: *Joe Balle*

(lab use only)

ORDER #: 01040064

e-mail:

syvialreynolds@deandigs.com  
jefikindley@deandigs.com  
kaylanlongee@deanequip.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
elizabethstuart@deandigs.com

AL61000 @ paula.com  
Analyze For:

Project Name: Plains Artesia Gathering Unit

Project #: PP-2075

Project Loc: *Elly County, New Mexico*PO #: *SRS# Artesia Gathering East Hoshorn*

Page 39 of 40

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250, ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of HeadSpace?

Labels on container(s) intact?

Custody seals on container(s) intact?

Sample Hand Delivered

by Courier? ☒ UPS ☐ DHL ☐ FedExTemperature Upon Receipt: *64.1*Received: *5:33*Adjusted: *5.33*°C Factor: *C2*

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

3 of 3

Project Manager: Sylvia Reynolds

Company Name: Dean

Company Address: 12600 WCR 91

City/State/Zip: Midland TX 79707

Telephone No: 432-230-0920

Fax No:

Sampler Signature: Joe Ballou

e-mail:

syviareynolds@deandigs.com  
ieffindley@deandigs.com  
kavlanlondee@deanequip.com

ORDER #: 0004004

(lab use only)

Preservation &amp; # of Containers

Matrix

Report Format: ☒ Standard ☐ TRRP ☐ NPDES  
elizabethstuart@deandigs.com  
A1-60040 @ paula.lisa  
Analyze For:

21 1:09:45 PM

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub> 250, ml Poly	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH TX1005 EXT (TEXAS)	BTEX 8021 B	TCLP BENZENE	CHLORIDES	TCLP METALS	NORM	PAINT FILTER	TOX	RCI	pH	TPH 8015 M (NEW MEXICO)	7 Day Tat	
		BH-50 @ 9.5'	4.5'	9.5'	4.5'	12/03/20	940		1	✓								Soil															
		BH-54 @ 4.5'	4.5'	4.5'	4.5'	12/03/20	1000		1	✓								Soil															
		BH-58 @ 4.5'	4.5'	4.5'	4.5'	12/03/20	1020		1	✓								Soil															
		ESW B-2 @ 3.5'	3.5'	3.5'	3.5'	12/03/20	1015		1	✓								Soil															
		NSW C-2 @ 3.5'	3.5'	3.5'	3.5'	12/03/20	1010		1	✓								Soil															

Laboratory Comments:

Special Instructions:

## Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered by Courier?

Temperature Upon Receipt?

by Sampler/Clerk Rep.?

Adjusted: 4.33 °C Factor

N

N

N

N

N

N

N

N



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 0L21004



NELAP/TCEQ # T104704516-17-8

Report Date: 12/23/20

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-46 @ 5'	0L21004-01	Soil	12/21/20 10:40	12-21-2020 15:36

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-46 @ 5'**  
**0L21004-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	5.0	0.1	%	1	P0L2201	12/22/20	12/22/20	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P0L2104	12/21/20	12/22/20	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P0L2104	12/21/20	12/22/20	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P0L2104	12/21/20	12/22/20	TPH 8015M
Surrogate: 1-Chlorooctane		103 %	70-130		P0L2104	12/21/20	12/22/20	TPH 8015M
Surrogate: o-Terphenyl		105 %	70-130		P0L2104	12/21/20	12/22/20	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/21/20	12/22/20	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P0L2201 - \*\*\* DEFAULT PREP \*\*\*****Blank (P0L2201-BLK1)**

Prepared &amp; Analyzed: 12/22/20

% Moisture	ND	0.1	%
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0L2104 - TX 1005****Blank (P0L2104-BLK1)**

Prepared &amp; Analyzed: 12/21/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	55.0		"	50.0		110	70-130			

**LCS (P0L2104-BS1)**

Prepared &amp; Analyzed: 12/21/20

C6-C12	1010	25.0	mg/kg wet	1000		101	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

**LCS Dup (P0L2104-BSD1)**

Prepared &amp; Analyzed: 12/21/20

C6-C12	1070	25.0	mg/kg wet	1000		107	75-125	5.93	20	
>C12-C28	1110	25.0	"	1000		111	75-125	0.926	20	
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	59.8		"	50.0		120	70-130			

**Calibration Check (P0L2104-CCV1)**

Prepared &amp; Analyzed: 12/21/20

C6-C12	543	25.0	mg/kg wet	500		109	85-115			
>C12-C28	560	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	56.2		"	50.0		112	70-130			

**Calibration Check (P0L2104-CCV2)**

Prepared: 12/21/20 Analyzed: 12/22/20

C6-C12	529	25.0	mg/kg wet	500		106	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P0L2104 - TX 1005**

<b>Matrix Spike (P0L2104-MS1)</b>	<b>Source: 0L21001-01</b>			Prepared: 12/21/20		Analyzed: 12/22/20				
C6-C12	708	255	mg/kg dry	1020	137	56.0	75-125			
>C12-C28	14200	255	"	1020	22500	NR	75-125			
<i>Surrogate: 1-Chlorooctane</i>	<i>103</i>		<i>"</i>	<i>102</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>56.7</i>		<i>"</i>	<i>51.0</i>		<i>111</i>	<i>70-130</i>			
<b>Matrix Spike Dup (P0L2104-MSD1)</b>	<b>Source: 0L21001-01</b>			Prepared: 12/21/20		Analyzed: 12/22/20				
C6-C12	634	255	mg/kg dry	1020	137	48.7	75-125	14.0	20	
>C12-C28	11500	255	"	1020	22500	NR	75-125	NR	20	
<i>Surrogate: 1-Chlorooctane</i>	<i>82.6</i>		<i>"</i>	<i>102</i>		<i>80.9</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>42.0</i>		<i>"</i>	<i>51.0</i>		<i>82.4</i>	<i>70-130</i>			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

ROI Received on Ice  
BULK Samples received in Bulk soil containers  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:



Date:

12/23/2020

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Pertman Basin Environmental Lab, LP  
1400 Rankin Hwy  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia ReynoldsCompany Name: DeanCompany Address: 12600 WCR 91City/State/Zip: Midland TX 79707Telephone No: 432-230-0920Sampler Signature: [Signature]

(lab use only)

ORDER #: 0221004

Fax No:

e-mail:

sylviareynolds@deandis.com  
jefkindley@deandis.com  
kaylanlongee@deanequip.com

Report Format: ☒ Standard☐ TRRP ☐ NPDES

elizabethstuart@deandis.com

At 6:00 p.m. on 12/21/20

Project Name: Plevin Artesia EastProject #: PR-2075Project Loc: Edy Co, NMPO #: Artesia East Wellhead

Analyze For:

LAB # (lab use only)

FIELD CODE

01-46 e 5'

Beginning Depth

Ending Depth

Date Sampled

12/21/20

Time Sampled

1040

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub> 250, ml Poly

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None 1L Poly

NaOH/ZnAc

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH TX1005 EXT (TEXAS)

BTEX 8021 B

TCLP BENZENE

CHLORIDES

TCLP METALS

NORM

PAINT FILTER

TOX

RCI

pH

TPH 8015 M (NEW MEXICO)

7 Day Tat

Special Instructions:

Inquired by:

Date

Time

Received by:

Date

Time

Inquired by:

Date

Time

Received by:

Date

Time

Inquired by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of HeadSpace?

Labels on container(s)

Custody seals on container(s)

Gaskets/seals on coders(s)

Sample Hand Delivered

by Courier?

Temperature Upon Receipt:

Adjusted:

N

N

N

N

N

N

N

N

N

**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Sylwia Reynolds  
Dean  
12600 W County Rd 91  
Midland, TX 79707

Project: Plains Artesia Gathering East

Project Number: PP-2075

Location: Eddy County, NM

Lab Order Number: 1C02002



**NELAP/TCEQ # T104704516-17-8**

Report Date: 03/08/21

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NSW C-2 @ 3.5'	1C02002-01	Soil	02/26/21 16:50	03-01-2021 16:55
BH-43 @ 4.5'	1C02002-02	Soil	02/26/21 16:30	03-01-2021 16:55
BH-44 @ 4.5'	1C02002-03	Soil	02/26/21 17:10	03-01-2021 16:55

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**NSW C-2 @ 3.5'****1C02002-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.****General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P1C0301	03/03/21	03/03/21	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M
>C12-C28	50.0	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M
Surrogate: 1-Chlorooctane		94.4 %	70-130		P1C0306	03/03/21	03/05/21	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P1C0306	03/03/21	03/05/21	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>50.0</b>	25.3	mg/kg dry	1	[CALC]	03/03/21	03/05/21	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-43 @ 4.5'**  
**1C02002-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P1C0301	03/03/21	03/03/21	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M
Surrogate: 1-Chlorooctane		105 %	70-130		P1C0306	03/03/21	03/05/21	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P1C0306	03/03/21	03/05/21	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	03/03/21	03/05/21	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**BH-44 @ 4.5'**  
**1C02002-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P1C0301	03/03/21	03/03/21	ASTM D2216	
------------	-----	-----	---	---	---------	----------	----------	------------	--

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P1C0306	03/03/21	03/05/21	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P1C0306	03/03/21	03/05/21	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P1C0306	03/03/21	03/05/21	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	03/03/21	03/05/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1C0301 - *** DEFAULT PREP ***</b>										
<b>Blank (P1C0301-BLK1)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK2)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK3)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK4)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK5)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK6)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK7)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK8)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Blank (P1C0301-BLK9)</b>	Prepared & Analyzed: 03/03/21									
% Moisture	ND	0.1	%							
<b>Duplicate (P1C0301-DUP1)</b>	Source: 1C02004-01 Prepared & Analyzed: 03/03/21									
% Moisture	4.0	0.1	%		4.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P1C0301 - \*\*\* DEFAULT PREP \*\*\***

<b>Duplicate (P1C0301-DUP2)</b>	<b>Source: 1C02004-11</b>		Prepared & Analyzed: 03/03/21							
% Moisture	10.0	0.1	%		9.0			10.5	20	
<b>Duplicate (P1C0301-DUP3)</b>	<b>Source: 1C02005-07</b>		Prepared & Analyzed: 03/03/21							
% Moisture	12.0	0.1	%		12.0			0.00	20	
<b>Duplicate (P1C0301-DUP4)</b>	<b>Source: 1C02005-17</b>		Prepared & Analyzed: 03/03/21							
% Moisture	12.0	0.1	%		13.0			8.00	20	
<b>Duplicate (P1C0301-DUP5)</b>	<b>Source: 1C02011-03</b>		Prepared & Analyzed: 03/03/21							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P1C0301-DUP6)</b>	<b>Source: 1C02012-06</b>		Prepared & Analyzed: 03/03/21							
% Moisture	6.0	0.1	%		7.0			15.4	20	
<b>Duplicate (P1C0301-DUP7)</b>	<b>Source: 1C02013-14</b>		Prepared & Analyzed: 03/03/21							
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P1C0301-DUP8)</b>	<b>Source: 1C02014-09</b>		Prepared & Analyzed: 03/03/21							
% Moisture	9.0	0.1	%		9.0			0.00	20	
<b>Duplicate (P1C0301-DUP9)</b>	<b>Source: 1C02015-04</b>		Prepared & Analyzed: 03/03/21							
% Moisture	11.0	0.1	%		10.0			9.52	20	
<b>Duplicate (P1C0301-DUPA)</b>	<b>Source: 1C02015-14</b>		Prepared & Analyzed: 03/03/21							
% Moisture	14.0	0.1	%		14.0			0.00	20	
<b>Duplicate (P1C0301-DUPB)</b>	<b>Source: 1C02016-15</b>		Prepared & Analyzed: 03/03/21							
% Moisture	7.0	0.1	%		7.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P1C0301 - \*\*\* DEFAULT PREP \*\*\***

<b>Duplicate (P1C0301-DUPC)</b>	<b>Source: 1C02016-25</b>		Prepared & Analyzed: 03/03/21							
% Moisture	7.0	0.1	%		8.0			13.3	20	
<b>Duplicate (P1C0301-DUPD)</b>	<b>Source: 1C02016-40</b>		Prepared & Analyzed: 03/03/21							
% Moisture	7.0	0.1	%		8.0			13.3	20	
<b>Duplicate (P1C0301-DUPE)</b>	<b>Source: 1C02016-50</b>		Prepared & Analyzed: 03/03/21							
% Moisture	8.0	0.1	%		8.0			0.00	20	
<b>Duplicate (P1C0301-DUPF)</b>	<b>Source: 1C02016-65</b>		Prepared & Analyzed: 03/03/21							
% Moisture	8.0	0.1	%		8.0			0.00	20	
<b>Duplicate (P1C0301-DUPG)</b>	<b>Source: 1C02016-75</b>		Prepared & Analyzed: 03/03/21							
% Moisture	10.0	0.1	%		10.0			0.00	20	
<b>Duplicate (P1C0301-DUPH)</b>	<b>Source: 1C02016-90</b>		Prepared & Analyzed: 03/03/21							
% Moisture	10.0	0.1	%		10.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P1C0306 - TX 1005****Blank (P1C0306-BLK1)**

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	62.8		"	50.0		126	70-130			

**LCS (P1C0306-BS1)**

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	1140	25.0	mg/kg wet	1000		114	75-125			
>C12-C28	1250	25.0	"	1000		125	75-125			
Surrogate: 1-Chlorooctane	121		"	100		121	70-130			
Surrogate: o-Terphenyl	64.2		"	50.0		128	70-130			

**LCS Dup (P1C0306-BSD1)**

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	1130	25.0	mg/kg wet	1000		113	75-125	0.700	20	
>C12-C28	1240	25.0	"	1000		124	75-125	0.768	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	63.0		"	50.0		126	70-130			

**Calibration Check (P1C0306-CCV1)**

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	533	25.0	mg/kg wet	500		107	85-115			
>C12-C28	575	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	62.9		"	50.0		126	70-130			

**Calibration Check (P1C0306-CCV2)**

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	564	25.0	mg/kg wet	500		113	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	63.3		"	50.0		127	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P1C0306 - TX 1005****Calibration Check (P1C0306-CCV3)**

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	509	25.0	mg/kg wet	500		102	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	57.5		"	50.0		115	70-130			

**Matrix Spike (P1C0306-MS1)**

Source: 1C02007-01

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	1180	27.2	mg/kg dry	1090	ND	109	75-125			
>C12-C28	1270	27.2	"	1090	70.8	110	75-125			
Surrogate: 1-Chlorooctane	127		"	120		106	70-130			
Surrogate: o-Terphenyl	68.7		"	59.8		115	70-130			

**Matrix Spike Dup (P1C0306-MSD1)**

Source: 1C02007-01

Prepared: 03/03/21 Analyzed: 03/05/21

C6-C12	1130	27.2	mg/kg dry	1090	ND	104	75-125	4.17	20	
>C12-C28	1190	27.2	"	1090	70.8	103	75-125	7.21	20	
Surrogate: 1-Chlorooctane	122		"	120		102	70-130			
Surrogate: o-Terphenyl	70.0		"	59.8		117	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Dean  
12600 W County Rd 91  
Midland TX, 79707

Project: Plains Artesia Gathering East  
Project Number: PP-2075  
Project Manager: Sylwia Reynolds

Fax:

### Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

3/8/2021

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



**PBETLAB**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Sylvia ReynoldsProject Name: Plains Area EastCompany Name: Dean Service IncProject #: PP-2075Company Address: 12600 WCR 91Project Loc: Eddy County, New MexicoCity/State/Zip: Midland, TX 79707PO #: 11042-DS-POTelephone No: 432-230-0920

Fax No:

Sampler Signature: Joe Belter

e-mail:

Jeffrey Kindly @ deanlys.com  
Sylvia Reynolds @ deanlys.com  
Kayla Long @ deanlys.com  
Steve Casanova @ deanlys.com  
Elizabeth Street @ deanlys.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(Lab use only)  
ORDER # 10000000

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021B/5030 or BTEX 8260	TPH 8015 M	TCLP:	ANALYZE FOR:	TOTAL:	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
	NSWC-2 @ 3.5	3.5	3.5	02/26/21	1650		1	✓								Soil										
	BH-43 @ 4.5'	4.5'	4.5'	02/26/21	1630		1	✓								Soil										
	BH-44 @ 4.5'	4.5'	4.5'	02/26/21	1710		1	✓								Soil										

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

## **APPENDIX D**

### **PHOTOGRAPHIC DOCUMENTATION**

**Photograph No 1.**

Date: June 30, 2020

Direction: Southwest

Description: View of initial release area.

**Photograph No 2.**

Date: June 30, 2020

Direction: Northeast

Description: View of initial release area.





**Photograph No 1.**

Date: June 30, 2020

Direction: Southwest

Description: View of excavation activities adjacent to LACT unit.

**Photograph No 2.**

Date: June 30, 2020

Direction: Northeast

Description: View of release activities adjacent to LACT unit.





**Photograph No 5.**

Date: September 16, 2020

Direction: Southwest

Description: View of excavation and soil sampling activities.

**Photograph No 6.**

Date: January 5, 2021

Direction: Southwest

Description: Backfilling of excavation.





**Photograph No 7.**

Date: January 21, 2021

Direction: North

Description: View of backfill activities.



**Photograph No 8.**

Date: February 3, 2021

Direction: North

Description: View of completed backfilling activities.



**APPENDIX E**  
**EXTENSION REQUEST AND NMOCD RESPONSE**

**From:** [Hamlet, Robert, EMNRD](#)  
**To:** ["Amber L Groves"](#)  
**Cc:** [Bratcher, Mike, EMNRD](#); [Eads, Cristina, EMNRD](#)  
**Subject:** (Extension Approval) NRM2020631097 Plains Artesia Gathering  
**Date:** Wednesday, December 2, 2020 8:23:00 AM

---

RE: Incident #**NRM2020631097**

**Amber,**

Your request for an extension to **January 1st, 2021** is approved. Plains is requesting an extension for NRM2020631097 Plains Artesia Gathering. Archaeological survey, laboratory sampling and excavating is taking longer than expected. Excavation is in progress and resuming on December 1<sup>st</sup>.

---

**From:** Amber L Groves <ALGroves@paalp.com>  
**Sent:** Monday, November 30, 2020 1:20 PM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>  
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>  
**Subject:** [EXT] NRM2020631097 Plains Artesia Gathering Extension Request

Good Afternoon,

Plains would like to request an extension for NRM2020631097 Plains Artesia Gathering. Archaeological survey, laboratory sampling and excavating is taking longer than expected. Excavation is in progress and resuming on December 1<sup>st</sup>.

Thank you,

*Amber L. Groves*  
*Remediation Coordinator*  
*Plains All American*  
*3112 W. US Hwy 82*  
*Lovington, NM 88260*  
*575-200-5517*

Attention:

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**From:** [Hamlet, Robert, EMNRD](#)  
**To:** ["Amber L Groves"](#)  
**Cc:** [Bratcher, Mike, EMNRD](#); [Eads, Cristina, EMNRD](#)  
**Subject:** (Extension Approval) NRM2020631097 Plains Artesia Gathering  
**Date:** Tuesday, January 12, 2021 2:09:00 PM

---

RE: Incident #**NRM2020631097**

**Amber,**

Plain's request for an extension to **February 15th, 2021** is approved. Plains will need an extension to February 15<sup>th</sup> for this site. Additional excavation became necessary and they will be unable to have the site backfilled and a report submitted by January 1<sup>st</sup>.

---

**From:** Amber L Groves <ALGroves@paalp.com>  
**Sent:** Tuesday, December 29, 2020 9:23 AM  
**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>  
**Subject:** [EXT] RE: (Extension Approval) NRM2020631097 Plains Artesia Gathering

Good Morning,

Plains will need an extension to February 15<sup>th</sup> for this site. Additional excavation became necessary and we will be unable to have the site backfilled and a report submitted by January 1<sup>st</sup>. Please feel free to give me a call with any questions.

Thank you,

*Amber L. Groves*  
*Remediation Coordinator*  
*Plains All American*  
*3112 W. US Hwy 82*  
*Lovington, NM 88260*  
*575-200-5517*

---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Wednesday, December 2, 2020 9:24 AM  
**To:** Amber L Groves <[ALGroves@paalp.com](mailto:ALGroves@paalp.com)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Eads, Cristina, EMNRD <[Cristina.Eads@state.nm.us](mailto:Cristina.Eads@state.nm.us)>

**Subject:** (Extension Approval) NRM2020631097 Plains Artesia Gathering [External]

RE: Incident #**NRM2020631097**

**Amber,**

Your request for an extension to **January 1st, 2021** is approved. Plains is requesting an extension for NRM2020631097 Plains Artesia Gathering. Archaeological survey, laboratory sampling and excavating is taking longer than expected. Excavation is in progress and resuming on December 1<sup>st</sup>.

---

**From:** Amber L Groves <[ALGroves@paalp.com](mailto:ALGroves@paalp.com)>

**Sent:** Monday, November 30, 2020 1:20 PM

**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Venegas, Victoria, EMNRD <[Victoria.Venegas@state.nm.us](mailto:Victoria.Venegas@state.nm.us)>; Eads, Cristina, EMNRD <[Cristina.Eads@state.nm.us](mailto:Cristina.Eads@state.nm.us)>

**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Billings, Bradford, EMNRD <[Bradford.Billings@state.nm.us](mailto:Bradford.Billings@state.nm.us)>

**Subject:** [EXT] NRM2020631097 Plains Artesia Gathering Extension Request

Good Afternoon,

Plains would like to request an extension for NRM2020631097 Plains Artesia Gathering. Archaeological survey, laboratory sampling and excavating is taking longer than expected. Excavation is in progress and resuming on December 1<sup>st</sup>.

Thank you,

*Amber L. Groves  
Remediation Coordinator  
Plains All American  
3112 W. US Hwy 82  
Lovington, NM 88260  
575-200-5517*

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

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

CONDITIONS  
  
Action 23298

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay St, Ste 1600 Houston, TX 77002	OGRID: 34053
	Action Number: 23298
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	6/14/2021